IEOM
11th Annual International Conference on Industrial Engineering and Operations Management

Singapore

March 7 - 11, 2021

Host University
SINGAPORE UNIVERSITY OF SOCIAL SCIENCES

Organizer
IEOM Society INTERNATIONAL
Welcome to the 11th Annual International Conference on Industrial Engineering and Operations Management, Singapore

To All Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the 11th Annual International Conference on Industrial Engineering and Operations Management, March 7-11, 2021. This unique international conference provides a forum for academics, researchers and practitioners from many industries to exchange ideas and share recent developments in the fields of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of major trends in industrial engineering and operations management. There were more than 1,000 papers/abstracts submitted from 60 countries, and after a thorough peer review process, more than 700 have been accepted for presentation and publication. The program includes many cutting-edge topics of industrial engineering and operations management. The theme of the conference is “Operational Excellence in the era of Industry 4.0”.

This conference will address many of the issues concerning continuous improvement for quality and service. Our keynote speakers will address some of these issues:

Professor Cheong Hee Kiat, President, Singapore University of Social Sciences
Dr. Mario Fargnoli, Technical Director, Italian Ministry of Agriculture and Contract Professor at Faculty of Civil and Industrial Engineering, Sapienza University of Rome, Italy
Dr. Hamid R. Parsaei, Professor, Dept. of Industrial and Systems Engineering, Texas A&M University, College Station, Texas, USA
Alex Teo, Vice President & Managing Director – South East Asia, Siemens Digital Industries Software, Singapore
Dr. Chung Piaw TEO, Provost's Chair Professor, Executive Director, Institute of Operations Research and Analytics (IORA), NUS Business School, National University of Singapore
Dr. Benny Tjahjono, Professor of Supply Chain Management, Sustainable Production & Consumption Research Cluster, Centre for Business in Society, Coventry University, UK
Dr. Lu ZHEN, Dean and Professor, School of Management, Shanghai University, Shanghai, China
Dr. Victoria Jordan, Vice President – Quality, Emory Healthcare, Atlanta, Georgia, USA
Dr. Koh Niak Wu, CEO and CTO, Cosmiqo International, Singapore
Dr. Ir. Wahyudi Sutopo, Professor, Dept. of Industrial Engineering and Vice Dean, Universitas Sebelas Maret, Surakarta, Indonesia
Dr. Ruth Banomyong, Professor and Dean, Thammasat Business School, Thammasat University, Thailand
Dr. Alessandro ROMAGNOLI, Associate Professor, School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore
Dr. Robert de Souza, Executive Director, The Logistics Institute – Asia Pacific (TLI – Asia Pacific), Singapore
Dr. Jenson Goh, Chief Information and Learning Officer, Monde Nissin Singapore Pte Ltd., Singapore
Dr. Hoong Chuin LAU, Professor of Information Systems and Director of the Fujitsu-SMU Urban Computing and Engineering Corporate Lab, Singapore Management University (SMU), Singapore
Dr. Murphy Choy, Director of Operations and Technology, SSON Analytics, Singapore
Dr. Noordin Mohd. Yusof, Professor, Department of Materials, Manufacturing and Industrial Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), and Former Dean of Faculty of Mechanical Engineering at UTM, Malaysia

The 21st IEOM Society Global Engineering Education session will feature distinguished speakers who will discuss the workforce readiness and engineering education challenges and opportunities. The Industry 4.0 will showcase major topics including IoT, AI, data analytics, iCloud, cybersecurity, automation, digital manufacturing and MSV. Industry Solutions will showcase best industry practices as well as shared experiences. Five panel sessions have been planned: Industry 4.0, Global Engineering Education, Supply Chain and Logistics, Women in Industry and Academia and Diversity & Inclusion sponsored by Ford Motor Company.

The IEOM Society would like to express our deep appreciation to our sponsors, university partners, organization partners, exhibitors, authors, reviewers, keynote speakers, panelists, track chairs, advisors, the local committee and the many volunteers who have given so much of their time and talent to make this unique international conference an overwhelming successful event.

SUSS, conference host, welcome all participants. The IEOM Society Conference Planning Committee hopes you will enjoy Singapore conference. Lastly, our sincere best wishes to you all for a successful conference.

Enjoy the conference!

Associate Professor Tan Yan Weng
CONFERENCE CHAIR
Head, Logistics and Supply Chain Management Programme, School of Business Singapore University of Social Sciences

Dr. Robert de Souza
HONORARY CHAIR
Executive Director / CEO
The Logistics Institute - Asia Pacific
Singapore

Dr. Ahad Ali
CONFERENCE CO-CHAIR
Associate Professor and Director of Industrial Engineering Programs, Lawrence Technological University, Southfield, MI, USA
Conference Program

All times are Singapore Time

Zoom Meeting Room Links will be sent to authors

February 27, 2021 (Saturday)
7:00 am – 2:00 pm, Saturday, February 27, 2021 - High School STEM Competition

March 7, 2021 (Sunday)
08:00 – 09:45 am Parallel Sessions - Rooms 1-5
10:00 – 11:45 am Parallel Sessions - Rooms 1-5
12:00 – 01:45 pm Parallel Sessions - Rooms 1-5
02:00 – 03:45 pm Parallel Sessions - Rooms 1-5
04:00 – 05:45 pm Parallel Sessions - Rooms 1-5
06:00 – 07:45 pm Parallel Sessions - Rooms 1-5
08:00 – 08:45 pm Keynote I: Dr. Mario Fargnoli, Technical Director, Italian Ministry of Agriculture and Contract Professor at Faculty of Civil and Industrial Engineering, Sapienza University of Rome, Italy - Room 1
09:00 – 11:45 pm Parallel Sessions - Rooms 1-5

March 8, 2021 (Monday)
08:00 – 09:45 am Parallel Sessions - Rooms 1-5
10:00 – 11:45 am Parallel Sessions - Rooms 1-5
12:00 – 01:45 pm Parallel Sessions - Rooms 1-5
02:00 – 03:45 pm Parallel Sessions - Rooms 1-5
04:00 – 05:45 pm Parallel Sessions - Rooms 1-5
06:00 – 07:45 pm Parallel Sessions - Rooms 1-5
08:00 – 09:45 pm Parallel Sessions - Rooms 1-5

March 9, 2021 (Tuesday)
8:00 – 9:30 Parallel Sessions - Rooms 1-5
9:30 – 9:40 Welcome Keynote: Professor Cheong Hee Kiat, President, Singapore University of Social Sciences - Room 1
9:40 – 10:20 Keynote II (Opening): Dr. Hamid R. Parsaei, Professor, Dept. of Industrial and Systems Engineering, Texas A&M University, College Station, Texas, USA - Room 1
10:20 – 11:00 Keynote III: Alex Teo, Vice President & Managing Director – South East Asia, Siemens Digital Industries Software, Singapore
11:00 – 11:40 Keynote IV: Dr. Chung Piaw TEO, Provost's Chair Professor, Executive Director, Institute of Operations Research and Analytics (IORA), NUS Business School, National University of Singapore - Room 1
11:40 – 12:20 Keynote V: Dr. Benny Tjahjono, Professor of Supply Chain Management, Sustainable Production & Consumption Research Cluster, Centre for Business in Society, Coventry University, UK - Room 1
12:20 – 1:00 Keynote VI: Dr. Lu ZHEN, Dean and Professor, School of Management, Shanghai University, Shanghai, China - Room 1
1:00 – 2:45 pm Parallel Sessions - Rooms 1-5
3:00 – 4:45 pm Parallel Sessions - Rooms 1-5
5:00 – 6:45 pm Parallel Sessions - Rooms 1-5
7:00 – 8:45 pm Parallel Sessions - Rooms 1-5
9:00 – 10:30 pm Global Engineering Education Panel – Room 1

March 10, 2021 (Wednesday)
8:00 – 9:30 Parallel Sessions - Rooms 1-5
9:30 – 9:40 Conference Chairs Remarks: - Room 1
9:40 – 10:20 Keynote VII: Dr. Victoria Jordan, Vice President – Quality, Emory Healthcare, Atlanta, Georgia, USA - Room 1
10:20 – 11:00 Keynote VIII: Dr. Koh Niak Wu, CEO and CTO, Cosmiqo International, Singapore - Room 1
11:00 – 11:40 Keynote IX: Dr. Wahyudi Sutopo, Professor, Dept. of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
11:40 – 12:20 Keynote X: Prof. Ruth Banomyong, Dean, Thammasat Business School, Thammasat University, Thailand - Room 1
12:20 – 1:00 Keynote XI: Dr. Alessandro ROMAGNOLI, Associate Professor, School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore - Room 1
1:00 – 2:45 pm Parallel Sessions - Rooms 1-5
3:00 – 4:45 pm Parallel Sessions - Rooms 1-5
5:00 – 6:30 pm Parallel Sessions - Rooms 1-5
6:30 – 9:00 pm Parallel Sessions - Rooms 1-5
9:00 – 10:30 pm Diversity and Inclusion Panel sponsored by Ford Motor Company – Room 1

March 11, 2021 (Thursday)
8:00 – 9:30 Parallel Sessions - Rooms 1-5
9:30 – 9:40 Conference Chairs Remarks: - Room 1
9:40 – 10:20 Keynote XII: Dr. Robert de Souza, Executive Director, The Logistics Institute – Asia Pacific, Singapore - Room 1
10:20 – 11:00 Keynote XIII: Jenson Goh, Chief Information and Learning Officer, Monde Nissin Singapore Pte Ltd., Singapore - Room 1
11:00 – 11:40 Keynote XIV: Dr. Hoong Chuin LAU, Professor of Information Systems and Director of the Fujitsu-SMU Urban Computing and Engineering Corporate Lab, Singapore Management University (SMU), Singapore - Room 1
11:40 – 12:20 Keynote XV: Dr. Murphy Choy, Director of Operations and Technology, SSON Analytics, Singapore - Room 1
12:20 – 1:00 Keynote XVI: Dr. Noordin Mohd. Yusof, Professor and Former Dean, Department of Materials, Manufacturing and Industrial Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Johor, Malaysia – Room 1
1:00 – 2:45 pm Parallel Sessions - Rooms 1-5
3:00 – 4:45 pm Parallel Sessions - Rooms 1-5
5:00 – 6:30 pm Parallel Sessions - Rooms 1-5
6:30 – 8:00 pm Parallel Sessions - Rooms 1-5
8:00 – 10:00 pm, Thursday, March 11: Conference Awards Ceremony – Room 1
Keynote Speakers

Welcome Keynote, Tuesday, March 9, 2021, 9:30 – 9:40 am

Professor Cheong Hee Kiat
President, Singapore University of Social Sciences

Professor Cheong Hee Kiat is Founding President of Singapore University of Social Sciences (SUSS). He joined academia in Nanyang Technological University in 1986, and held various academic and administrative appointments including Deputy President and Dean of Civil and Environmental Engineering.

He has served on the boards of several tertiary education institutions, the Public Utilities Board and Building and Construction Authority (BCA), and public committees. He has also been active in university accreditation and academic audits in Singapore and internationally. He is currently a member of the NIE Council, the Singapore Engineering Accreditation Board, and chairman of the BCA Academy Advisory Panel. He also chairs the Board of the Singapore Bible College.

Professor Cheong graduated from the University of Adelaide and the Imperial College, London. He is a registered Professional Engineer (Civil) and Fellow of the Institution of Engineers Singapore, the Singapore Academy of Engineers and the Society of Project Managers.

Keynote I: Sunday, March 7, 2021, 8:00 – 8:45 pm

Dr. Mario Fargnoli
Technical Director, Italian Ministry of Agriculture
Contract Professor at Faculty of Civil and Industrial Engineering
Sapienza University of Rome, Italy

Mario Fargnoli is currently employed at the Italian Ministry of Agriculture and collaborates with Sapienza – University of Rome as Contract Professor at the Faculty of Civil and Industrial Engineering, where he earned his PhD in 2005. From 2005 to 2007 he worked at the Department of Precision Machinery of the University of Tokyo as JSPS Fellow Researcher. His research interests mainly concern design for safety and human error, product-service systems (PSS), ecodesign as well as engineering tools and methods such as Quality Function Deployment (QFD), Analytic Hierarchical Process (AHP) and Analytic Network Process (ANP), Life Cycle Assessment.

ID 1307 Design for Safety and Human Factors in Industrial Engineering: A Review towards a Unified Framework
Mario Fargnoli, DICMA, Faculty of Civil and Industrial Engineering, Sapienza University of Rome, Rome, Italy and Department of Rural Development, Ministry of Agriculture, Food and Forestry Policies, Rome, Italy

Keynote II (Opening Keynote): Tuesday, March 9, 2021, 9:40 - 10:20 am

Hamid R. Parsaei, Ph.D., P.E.
Professor
Fellow, IISE, ASEE, SME, IEOM
Department of Industrial and Systems Engineering
Texas A&M University
College Station, Texas, USA

Dr. Hamid R. Parsaei is an internationally recognized leader in the field of manufacturing automation, leadership, engineering education, additive manufacturing, economic and financial decision making, and project management with more than three decades of experience in academia. He is awarded as a fellow IISE, ASEE, SME and IEOM.

Dr. Parsaei's leadership experience and accomplishments include serving as Professor and Associate Dean for Academic Affairs at Texas A&M University at Qatar (TAMUQ). He also served as the Director of Outreach and Accreditation and the Interim Chair of the Mechanical Engineering at TAMUQ while holding the rank of Professor in the Department of Industrial and Systems Engineering at Texas A&M University in College Station, Texas. Prior to joining Texas A&M University, Dr. Parsaei served as Professor and Chair of the Department of Industrial Engineering at University of Houston for 10 years and Director of Graduate Studies and Graduate Advisor for five years. He also served as Director of the Texas Manufacturing Assistance Center's Gulf Coast Region from March 2001 to September 2005.

Dr. Parsaei is highly regarded worldwide for his scholarship. He served as Area Editor, Methodology, and as an editorial board of The Engineering Economist from June 1990 until January 1995, and he was editor in chief of three international refereed archival journals. He currently serves as a member of the editorial boards and associate editor to over fifteen peer-refereed journals. He has been guest editor for several special issues of peer-reviewed archival journals, and has served as series editor to nine book series published by Wiley and Sons, CRC Press, Taylor and Francis,
and several other publishing houses. His newest journal, Engineering Education Letters is a clear testament to Dr. Parsaei's dedication to engineering education.

Dr. Parsaei has been principal and co-principal investigator on projects funded by NSF, Qatar Foundation, the US Department of Homeland Security, Texas Department of Transportation, Houston Transtar, the National Institute of Standards and Technology and the National Institute of Safety and Health, among others, with total funding in excess of $24 million. He has authored or co-authored 26 archival books and over 280 refereed publications that appear in archival journals and conference proceedings.

He has received several prestigious recognitions from IISE including, the Wellington Award (1993) from the Engineering Economy Division of the Institute for his original contributions to the field of engineering economics, Award of Merit in recognition of his service to the Engineering Economy Division during 1991–1992, the 2006 UPS Excellence Award for innovative development of programs directed to the development of women, minorities and people with disabilities within the field of industrial engineering. He garnered the 2016 George L. Smith Award and in 2018, he was honored with the Fred C. Crane Award for meritorious service to the IISE.

Dr. Parsaei received his M.S. and Ph.D. degrees in industrial engineering from Western Michigan University and the University of Texas at Arlington, respectively. He is a registered professional engineer in the State of Texas and an ABET Engineering Accreditation Commissioner and Program Evaluator.

Keynote III: Tuesday, March 9, 2021, 10:20 - 11:00 am

Alex Teo  
Managing Director and Vice President - South East Asia  
Siemens Digital Industries Software, Singapore

Alex Teo is Managing Director and Vice President of Siemens Digital Industry Software in South East Asia. Alex is responsible for managing all sales, through direct sales and indirect channel partners across the region, increasing Siemens Industry Software’s market share and extending its leading position through customer innovation, thought leadership and business execution.

He has been instrumental in leading many Digital Transformation projects for his clients across South East Asia and helping his clients to grow using Digitalization approach. Before joining Siemens in 2009, he had previous held Application Engineering, Sales and Managing Director roles with another Nasdaq listed technology company for twelve years in South Asia region.

Alex earned a Bachelor and Master degree in Electrical Engineering Degree from the National University of Singapore and he has published several technical papers on microwave numerical modeling in technical journals like IEEE Transactions on Microwave Theory and Techniques and Microwave and Optical Technology Letters.

Keynote IV: Tuesday, March 9, 2021, 11:00 am - 11:40 am

Dr. Chung Piaw TEO  
Provost’s Chair Professor  
Executive Director, Institute of Operations Research and Analytics (IORA)  
NUS Business School, National University of Singapore

Chung Piaw TEO is Provost’s Chair Professor and Executive Director of the Institute of Operations Research and Analytics (IORA) in the National University of Singapore. Prior to the current appointments, he was a Head of Department, Acting Deputy Dean, Vice-Dean of the Research & Ph.D. Program as well as Chair of the Ph.D. Committee in the NUS Business School. He was a fellow in the Singapore-MIT Alliance Program, an Eschbach Scholar in Northwestern University (US), Professor in Sungkyunkwan Graduate School of Business (Korea), and a Distinguished Visiting Professor in YuanZe University (Taiwan).

He is currently spearheading an effort to develop the IORA, as part of the University’s strategic initiatives in the Smart Nation Research Program, as well as a department editor for MS (Optimization), and a former area editor for OR (Operations and Supply Chains). He studied issues in service and manufacturing operations, supply chain management, discrete optimization, and machine learning. He has also served on several international committees such as the Chair of the Nicholson Paper Competition (INFORMS, US), member of the LANCHESTER and IMPACT Prize Committee (INFORMS, US), Fudan Prize Committee on Outstanding Contribution to Management (China). He has received Ph.D. in Operations Research from Massachusetts Institute of Technology, USA, 1996 and Bachelor of Science (Hon) in Mathematics from National University of Singapore, Singapore, 1990.

Keynote V: Tuesday, March 9, 2021, 11:40 am - 12:20 pm
In her previous role as Executive Director of Strategic Management and Systems Engineering at M.D. Anderson Cancer Center (2008-2017), she served in several academic faculty positions in Industrial Engineering, Business, and Statistics. She is the co-author of a McGraw-Hill textbook, Design of Experiments in Quality Engineering, author of several peer reviewed articles, and has led Quality/Systems Engineering, Strategic Planning and Management, and Clinical Informatics within the Office of Performance Improvement. In addition, Dr. Jordan served as the Director of Performance Improvement and Analytics for the Kennedy Initiative for Transforming Care and specialty clinics. The Office of Quality includes patient safety and infection prevention, process improvement, regulatory compliance, quality education, and clinical quality analytics. Dr. Jordan also serves as the Director of Performance Improvement and Analytics for the Kennedy Initiative for Transforming Care where she leads the effort to define and operationalize the vision of expanding EHC performance improvement, quality education, and analytics capabilities using Lean and other approaches to achieve high reliability.

Prof Tjahjono has a vested interest in sustainability and environmental conservation. Over the last five years he has focused his overarching research area on Sustainable Operations and Supply Chain Management, in particular, the exploration of Circular Economy principles in manufacturing processes. He is an engineer by education and has a strong background in contemporary simulation and modelling techniques, including discrete-event simulation, agent-based simulation and system dynamics. He has applied these techniques, amongst others such as Life-Cycle Assessment/Analysis (LCA), in addressing sustainability issues in modern factories, by proposing an environmentally-conscious manufacturing systems design method, as an innovative way to achieve the triple bottom line objectives; ‘doing good for people, planet and profit’.

He has published over 90 papers in refereed academic journals, conference proceedings, books, practitioners’ journals and newspapers. He has completed the supervision of 12 PhD and over 100 MSc students, and currently leads a team of four doctoral researchers in many emerging areas related to supply chain and operations management. As part of his duty, he is also actively involved in nurturing early career researchers.

Keynote VI: Tuesday, March 9, 2021, 12:20 - 1:00 pm

Dr. Lu ZHEN
Dean and Professor
School of Management
Shanghai University
Shanghai, China

Lu Zhen is a Professor and Dean in the School of Management at Shanghai University. He got his B.S. and Ph.D. degrees from Shanghai Jiao Tong University in 2003 and 2008, respectively. He worked at National University of Singapore as a Postdoctoral Research Fellow before joining Shanghai University in 2011 as Assistant Professor, and was promoted as Associate Professor and Full Professor after half a year and one year, respectively. His research interests include logistics and supply chain management, operations research, optimization in port and shipping management, and knowledge management. He has published 80 SCI and SSCI journal papers on some reputable journals such as Transportation Science, Transportation Research Part B, Naval Research Logistics, and IIEE Transactions. He is the PI of 15 projects including five at the national level. He has served as an associate editor or an editorial board member of five SCI/SSC journals such as Transportation Research Part B, Journal of the Operational Research, Computers & Operations Research; and he is also the Fellow of the Operational Research Society (U.K.). He has been awarded National Funds for Distinguished Young Scientists in China, National Funds for Outstanding Young Scientists in China, Changjiang Young Scholar in China, and etc.

Keynote VII, Wednesday, March 10, 2021, 9:40 - 10:20 am

Dr. Victoria Jordan, PhD, MS, MBA
Vice President - Quality
Emory Healthcare
Atlanta, Georgia, USA

Dr. Victoria Jordan, PhD, MS, MBA, is Vice President - Quality at Emory Healthcare where she leads the development, coordination, and implementation of quality improvement efforts across Emory Healthcare. This includes strategic oversight of quality initiatives across Emory’s eleven hospitals and over 300 primary care and specialty clinics. The Office of Quality includes patient safety and infection prevention, process improvement, regulatory compliance, quality education, and clinical quality analytics. Dr. Jordan also serves as the Director of Performance Improvement and Analytics for the Kennedy Initiative for Transforming Care where she leads the effort to define and operationalize the vision of expanding EHC performance improvement, quality education, and analytics capabilities using Lean and other approaches to achieve high reliability.

In her previous role as Executive Director of Strategic Management and Systems Engineering at M.D. Anderson Cancer Center (2008-2017), she led Quality/Systems Engineering, Strategic Planning and Management, and Clinical Informatics within the Office of Performance Improvement. In addition, Dr. Jordan served as the University of Texas Chancellor’s Health Fellow for Systems Engineering, coordinating and promoting the use of Systems Engineering in health care institutions in collaboration with the Engineering and Business Schools within the University of Texas System. She is the co-author of a McGraw-Hill textbook, Design of Experiments in Quality Engineering, author of several peer reviewed articles, and has served in several academic faculty positions in Industrial Engineering, Business, and Statistics.
Dr. Jordan received her Ph.D. (2006) from Auburn University in Industrial and Systems Engineering with an emphasis in applied statistics and received the Auburn University Distinguished Alumna of the Year Award for Industrial and Systems Engineering in 2017. She holds an M.B.A. from the Ohio State University, an M.S. (1987) in Industrial and Systems Engineering from Auburn University, and a B.S. from the University of Kentucky in Statistics, with minors in Computer Science and Mathematics. Dr. Jordan serves on the Engineering Council for Auburn University and the Industry Advisory Boards for departments of Industrial and Systems Engineering at the University of Houston and the University of Central Florida. Dr. Jordan is a senior member of the American Society for Quality, a member of the American Statistical Association and the Society of Healthcare Systems, a Fellow of the Institute of Industrial and Systems Engineers (2010-2021 President), and the Healthcare representative to the international Council of Industrial and System Engineers. She is a Six Sigma Master Black Belt, Certified in Medical Quality, and has over 30 years of experience providing management and statistical consulting in manufacturing, service, and health care organizations.

Keynote VIII, Wednesday, March 10, 2021, 10:20 - 11:00 am

Dr. Koh Niak Wu
CEO
Cosmiqo International Pte Ltd
Singapore

Presentation title: 4.0 and Us

Dr. Koh Niak Wu is the Founder and CEO of Cosmiqo International Pte Ltd, a company that is focused on building intelligent systems that optimises resource allocation for 4-wall operations. He specialises in supply chain analytics, strategy execution and operations management innovation. He is an Intellectual Transcendences 2019 recipient recognised by the Asian Productivity Organisation and China Productivity Centre.

Dr. Koh was formerly part of the Global Supply Chain and Logistics team at Dell contributing to strategy analytics. He was also in the Planning and Operations Management Group at SIMTech, A*STAR where he gained valuable insights into the evolution of industries. Additionally, Dr Koh is an Adjunct Faculty at the Singapore Management University (SMU) and Singapore University of Social Sciences where he shares his views and cross-industry experiences on supply chains and operations management. He is also an Expert with the Asian Productivity Organisation (APO) and has been sharing his views on the future economy across Asia and the Pacific.

Dr. Koh codes, believes in the power of operational analytics and how it shapes business decisions. He holds a Doctor of Philosophy in Robotics from the National University of Singapore and a Bachelor of Engineering (Double 1st) from King's College London.

Keynote IX, Wednesday, March 10, 2021, 11:00 - 11:40 am

Dr. Ir. Wahyudi Sutopo, ST., M.Si, IPM
Professor, Department of Industrial Engineering
Vice Dean for General and Financial Affairs, Faculty of Engineering, 2019-2023
Past Head of Department of Industrial Engineering
Coordinator of Industrial Engineering and Techno-Economy (RITE) Research Group (FY 2016-now)
Universitas Sebelas Maret (UNS)
Surakarta, Indonesia

His educational background is the profession of engineer (Ir) from the Professional Engineer Program – Universitas Sebelas Maret (UNS) in 2018; Doctor (Dr) in Industrial Engineering & Management from Institut Teknologi Bandung in 2011; Master of Management (M.Sc.) from Universitas Indonesia in 2004, and Bachelor of Industrial Engineering (S.T.) from Institut Teknologi Bandung in 1999. He has professional qualifications as an associate professional engineer (P.Eng) since 2016. Since 2019, he was given the mandate as deputy dean of the general and financial affair of the Faculty of Engineering UNS. At UNS, he was the head of the industrial engineering undergraduate study program (2015-2019); as an asset auditor of the internal supervisory unit (2014-2019); and the head of UNS Technology innovation center (2014-2016). He is also as General Chair of the Indonesian industrial engineering higher education institution cooperation agency (BKSTI) for the 2017-2020; Assessor of BAN-PT (Noreg. 2017-01215); researcher for MIT-Indonesia Research Alliance (MIRA) research collaboration; and researcher for National Center for Sustainable Transportation Technology (NC-STT). He had experience working in the electronics industry as an engineer at PT. Panasonic Manufacturing Indonesia (formerly PT. Panasonic Gobel) from 2000-2003. Areas of research interest are in the fields of logistics & supply chain management, engineering economy & cost analysis, and technology commercialization. He has received more than 30 research grants. He has written 3 textbooks and 7 chapter books and made 4 copy works. Scopus author id: 42062336300; publication - 130 documents; with 8 h-index. SINTA author id: 1778; score: 1746.5 (3 years score); 233-rank in national; 9-rank in affiliation (UNS).

Keynote X, Wednesday, March 10, 2021, 11:40 am - 12:20 pm
Prof. Ruth Banomyong
Dean
Thammasat Business School
Thammasat University
Thailand

Seamless Logistics Development in ASEAN

Ruth Banomyong is currently Dean at the Faculty of Commerce & Accountancy (a.k.a. Thammasat Business School), Thammasat University in Thailand. He is a Professor in the Department of International Business, Logistics and Transport Management. Ruth Banomyong is on the board of WICE Logistics (Public) Co. Ltd. and 2 other companies. He was a board member of the Civil Aviation Authority of Thailand. Prof Banomyong received a graduate degree and an undergraduate degree from Université Paris 1, an undergraduate degree from Lycee Michelet and a doctorate from Cardiff Business School. His primary research interests are in the fields of multimodal transport, international logistics, logistics policy development and supply chain performance measurements. He also has a diploma to teach muay thai (thai boxing).

Keynote XI, Wednesday, March 10, 2021, 12:20 - 1:00 pm

Dr. Alessandro ROMAGNOLI, BA (Hons), MEng, CEng, PhD
Associate Professor
School of Mechanical and Aerospace Engineering
Co-Director of the Surbana Jurong Corporate Lab @ NTU
Cluster Director on Multi-Energy Systems and Grids
Energy Research Institute @ NTU (ERI@N)
Nanyang Technological University
Singapore

Alessandro gained a First Degree cum laude in Mechanical Engineering in 2003 from the “University of Ancona” in Italy, after which he worked for two years at Lucci Collettori Spa (Ancona, Italy) where he supervised the design and production of commutators for electric motors. In 2006 he worked for 6 months at Seagate Technology Inc. and he then began a PhD at Imperial College London in the Thermo-Fluids Division focussing on aerodynamic study of single and twin-entry mixed flow turbines under unsteady conditions. As a part of his research, he also studied heat transfer effects occurring in turbochargers. After completing his PhD in 2010, Alessandro worked as Research Associate at Imperial College London. He acted as research co-investigator in projects looking at engine downsizing, waste heat recovery, and mild-hybridization of powertrain technology in passenger vehicles as well as in optimization and design of novel turbine concepts. He collaborates extensively with world leading OEMs in powertrain R&D (Jaguar, Land Rover, Lotus, Ford, CAT, MHI, Honda, ABB, etc.).

In 2013, he joined Nanyang Technological University as an Assistant Professor. His responsibilities include teaching undergraduate courses, run lab-tutorial, supervising PhD students and FYPs. Alessandro’s research activity in NTU encompasses several aspects related to propulsion, energy efficiency and thermal energy recovery and management. Examples of his current research include the study of waste heat recovery such as ThermoElectric Generators design and analysis, Organic Rankine Cycles optimization, Turbocharging and Thermal Energy Storage; Alessandro is also championing the effort on Cold Energy Recovery and Cold Economy in Singapore.

Besides his academic activity Alessandro has also worked for three years (2010-2013) as engineering consultant under ICON (Imperial College CONSultant). In 2012, he founded a UK-based engineering consultancy company offering design, test and advice on energy efficiency, turbomachinery and waste heat recovery systems. Alessandro also acts as reviewer for several engineering journals (ASME, SAE, IMechE, Elsevier), collaborates as freelancer with the automotive magazine Torque (published in Singapore).

Keynote XII, Thursday March 11, 2021, 9:40 - 10:20 am

Dr. Robert de Souza
Executive Director
The Logistics Institute - Asia Pacific (TLI - Asia Pacific)
Singapore

Dr. Robert de Souza is the Executive Director of the The Logistics Institute - Asia Pacific (TLI - Asia Pacific). Robert is a Chartered Engineer and a distinguished writer, speaker, consultant and advisor in the area of supply chain management. Prior to this appointment, effective May 1st 2004, Dr Robert de Souza served as Deputy Executive Director (Industry) and IT Director at TLI - Asia Pacific. Previously, Dr de Souza was Executive Vice President (Asia Pacific) for V3 Systems. His extensive tenure in the industry also includes serving as the Corporate Senior Vice President and Global Chief Knowledge Officer at Viewlocity Inc. and co-founder, Vice Chairman and CEO of SC21 Pte, Ltd., a Singapore-based supply chain software firm. As an educator, Dr de Souza is an Adjunct Professor in the School of Industrial and Systems Engineering at Georgia Institute of Technology in Atlanta and also a Senior Fellow in the Department of Industrial and Systems Engineering at the National University of Singapore and has previously served as a professor and in several senior positions in the School of Mechanical and Production Engineering at Nanyang Technological University in Singapore. Dr. de Souza is a member of the Editorial Board of the International Journal of Computer Integrated Manufacturing and the International Journal of Logistics Research and Applications. Dr de Souza also serves on the Advisory Panel of The Chartered Institute of Logistics and Transport, Singapore (CILTS), as a Council Chairman and CEO of SC21 Pte, Ltd., a Singapore-based supply chain software firm. As an educator, Dr de Souza is an Adjunct Professor in the School of Industrial and Systems Engineering at Georgia Institute of Technology in Atlanta and also a Senior Fellow in the Department of Industrial and Systems Engineering at the National University of Singapore and has previously served as a professor and in several senior positions in the School of Mechanical and Production Engineering at Nanyang Technological University in Singapore. Dr. de Souza is a member of the Editorial Board of the International Journal of Computer Integrated Manufacturing and the International Journal of Logistics Research and Applications. Dr de Souza also serves on the Advisory Panel of The Chartered Institute of Logistics and Transport, Singapore (CILTS), as a Council Chairman and CEO of SC21 Pte, Ltd., a Singapore-based supply chain software firm. 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Twice a recipient of Singapore government scholarship from the Infocomm Development Authority (IDA), Hoong Chuin obtained his Doctorate in Engineering degree in Computer Science from the Tokyo Institute of Technology (Japan) in 1996, and BSc and MSc degrees in Computer Science from the University of Minnesota (Minneapolis, USA) in 1987 and 1988.

Prior to becoming a senior management, he was Director of Studies, Residential College 4. His responsibility involved the realization of a transformative programme to develop students into able system thinkers. He was an international award winning teaching case writer and multiple years NUS teaching award winner. His research strives to uncover ways to help organizations/society deal with wicked problems through the innovative use of IT and in the application of innovative teaching methods to drive learning. He had published >50 articles in top tier journals and conferences, books, press and practitioner’s publications.

Before that, Dr. Jenson had >16 years in strategizing IT use as a Chief Enterprise Architect. He had extensive experience driving many IT initiatives to support University's teaching, research and administration. In 2003, he was selected by Infocomm Authority of Singapore and Sun Microsystems for the prestigious 8 months Java Black Belt programme to be groomed as leaders in Singapore’s IT industry. For his innovative use of IT and service to the University, he had won >20 international and national awards which include the NUS service champion and NUS IT Director's awards.

Dr. Jenson had served as the Head, Manpower and Logistics (NS) in the Singapore Police Force responsible for the operational readiness of 1,600 NSmen for more than 10 years. For his dedication, he received multiple awards from the Commissioner of Police and Division Commander including the most prestigious Home Team NS man of the year award in 2018.

Dr. Jenson has years of consulting works across the globe in diverse industries. He is still well sought after by companies around the world for his knowledge and capabilities in leading transformational works.

Dr. Jenson is an avid societal contributor. His volunteering services include member of two national level ISO committees, Vice Chairmans/members in multiple committees, the President, Asia Pacific Coordinating Policy Council of System Dynamics Society and a Committee Member in the Environment Functional Committee of the South West District Community Development Council.

Hoong Chuin LAU is Professor of Information Systems and Director of the Fujitsu-SMU Urban Computing and Engineering Corporate Lab at the Singapore Management University (SMU), Singapore.

The common thread running through his research is a focus on going beyond publications to build usable novel tools and prototypes, a number of which have been testbedded and deployed in industry. Working at the interface of Operations Research and Artificial Intelligence, he is interested in combining data analytics and optimization for decision-making in business. More specifically, he works on optimization models, agent-based models, and metaheuristics for data-driven resource planning, scheduling and coordination problems in logistics, transportation, and travel planning. Recently, his focus is on such planning and operations problems in urban contexts. He was awarded the Lee Kwan Yew Fellowship for research excellence in 2008. He currently serves on the editorial board of the Journal of Scheduling, and the Web Intelligence Journal, and previously served as Associate Editor for the IEEE Transactions on Automation Science and Engineering.

He has been involved in consulting projects in logistics and transportation, for companies such as DHL, Fedex, Bax Global, PSA, EADS, ST Engineering, and various government agencies. He is a charter member of the Chartered Institute of Logistics and Transportation, and currently serves on the CILT Singapore board of directors. For his work with the Singapore Ministry of Defense, he won the National Innovation and Quality Convention Star Award in 2006, and was nominated for the prestigious Defense Technology Prize (individual category) in 2007.

Throughout his 20 years of full-time university lecturing experience, he taught a number of undergraduate and graduate courses, including AI Planning and Decision Making, Design and Analysis of Algorithms, Combinatorial Graph Algorithms, Computer as an Analysis Tool, Computational Thinking, Algorithms and Optimization, Advanced Topics in Intelligent Systems, and Enterprise Analytics for Decision Support. He is co-author of the textbook “Business Analytics for Decision Making” published by CRC Press in 2016.

Twice a recipient of Singapore government scholarship from the Infocomm Development Authority (IDA), Hoong Chuin obtained his Doctorate of Engineering degree in Computer Science from the Tokyo Institute of Technology (Japan) in 1996, and BSc and MSc degrees in Computer Science from the University of Minnesota (Minneapolis, USA) in 1987 and 1988.

Dr. Hoong Chuin LAU
Professor of Information Systems and
Director of the Fujitsu-SMU Urban Computing and Engineering Corporate Lab
Singapore Management University (SMU), Singapore

Uncovering Counter-Intuitive Insights through Systems Thinking for Operational Excellence: A Practitioner Perspective

Dr. Jenson is the Chief Information and Learning Officer of Monde Nissin Group, a USD1.5 billion multi-national company that operates from Philippines, Thailand, Singapore, and UK. He is currently responsible in leading the global IT initiatives, driving the organisation towards a learning organisation and is a member of the management committee that is leading the sustainability initiatives in the company.

Dr. Jenson Goh
Chief Information and Learning Officer
Monde Nissin Singapore Pte Ltd
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Keynote XV, Thursday, March 11, 2021, 11:40 am - 12:20 pm

Dr. Murphy Choy
Director of Operations and Technology
SSON Analytics, Singapore
Certified Advanced Programmer for SAS V9
Certified Basic Programmer for SAS V9
DataShaping Certified SAS Professional

Murphy has over a decade of experience in the area of data analytics and machine learning. His expertise lies in the use of data to drive business results and developing solutions and products driven by data. Murphy has held a variety of positions in both industry and academia. He has held senior management positions in data science, technology and operations. His works in the area of data refinery and analytics has also won an award for best industry solution. He was also a former instructor in the university and has won a teaching award for his work. He has extensive consulting experience with banks, financial institutions, logistics companies, airport, sea ports and governments. Murphy holds a Doctorate of Professional Studies in Business Analytics from Middlesex University London, Masters of Finance from University College Dublin and Bachelor of Statistics from National University of Singapore. He also holds a diploma of Economics from University of London and Post Graduate Certificate in Business Research from Heriot-Watt University.

Keynote XVI, Thursday, March 11, 2021, 12:20 - 1:00 pm

Dr. Noordin Mohd. Yusof
Professor, Department of Materials, Manufacturing and Industrial Engineering
Faculty of Mechanical Engineering
Universiti Teknologi Malaysia (UTM), Skudai, Johor
Former Dean of Faculty of Mechanical Engineering at UTM

Dr. Noordin Mohd. Yusof is a Professor at the Department of Materials, Manufacturing and Industrial Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), Skudai, Johor. He earned his B. Mech. Eng. (Hons) and Ph. D. in Mechanical Engineering from UTM and M. Sc. (Advanced Manufacturing Technology) from Cranfield Institute of Technology, U.K. Prior to joining the university in 1987; he worked in Harris Semiconductor Malaysia and Matsushita Industrial Corporation in the Quality and Production Engineering departments respectively. He has conducted and supervised numerous research projects on machinability studies, sustainability, statistical quality control, maintenance and membrane manufacture. He has published and presented his works at various international and national seminar/conferences on the above subject matters. Additionally, he has also published papers in various national and international scientific journals. Professor Noordin has held various administrative positions in UTM Dean and Deputy Dean (Development) at the Faculty of Mechanical Engineering.
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Dr. Kinnaleth Vongchanh, Researcher at Institute of Technology of Cambodia
Dr. James C. Chen, Department of Industrial Engineering and Management, Faculty of Technology, National Tsing Hua University (NTHU), Taiwan
Dr. Chen-Fu Chien, Tsinghua Chair Professor, Department of Industrial Engineering & Engineering Management, National Tsing Hua University, Hsinchu, Taiwan
Dr. Rumi Tobita, Ashikaga University, Tochigi, Japan
Dr. Hiroyuki Goto, Hosei University, Tokyo, Japan
Dr. Suk-Hwan Suh, Professor and Director of Center for Ubiquitous Manufacturing, Founding Dean of Graduate School of Engineering, POSTECH: Pohang University of Science and Technology, Pohang, South Korea
Dr. Jinwoo Park, Professor, Department of Industrial Engineering, Seoul National University, South Korea
Dr. Seong Jun Kim, Dept. of Industrial & Management Engineering, Gwangju-Wonju National University, South Korea
Dr. Mesbahuddin Chowdhury, University of Canterbury, New Zealand
Dr. Mi Sandar Mon, Professor and Head of Mechanical Engineering Department, Yangon Technological University, Yangon, Myanmar
Dr. Win Pa Pa Moe, Professor and Head of Department of Mechanical Engineering, Mandalay Technological University, Pathethin, Mandalay, Myanmar
Mário Cabral, Department of Engineering, National University of East Timor, Dili, East Timor
Hayatullah Mushani, Lecturer at Kabul University (KU), Afghanistan
Zumrat Gaibullaeva, Tajik Technical University, Tajikistan
Professor Coskan Ilcivi, Dean, Faculty of Engineering, Turkey Manas University, Kyrgyzstan
A.M. Pendezh, Turkmen Polytechnical Institute, Kytosvogo, Turkmenistan
D.M. Mukhammadiev, Urazbayev Institute of Mechanics and Seismic Stability of Structures, Academy of Sciences of the Republic of Uzbekistan, Tashkent, Uzbekistan
N.M. Rasulov, Azerbaijan Technical University, Baku, Azerbaijan
M. Lei, School of Economic and Management, Inner Mongolia University of Science and Technology, Baotou, Inner, Mongolia
Dr. Gulnara Ablova, Professor, Eurasian National University, Kazakhstan
Dr. Jihong Yan, Professor in Industrial Engineering and Deputy Dean of School of Mechatronics Engineering, Head of Intelligent Manufacturing Scientific Research Team, Harbin Institute of Technology, Harbin, China
Dr. Budi Santosa, Professor at Industrial Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, East Java, Indonesia
Prof. Dr. Abdul Hakim Halim, Industrial Engineering, Institut Teknologi Bandung, Indonesia
Dr. Paulina Kus Ariningsih, Industrial Engineering Department, Faculty of Industrial Technology, Parahyangan Catholic University (UNPAR), Bandung, West Java, Indonesia
Siti Mahsanah Budijati, Department of Industrial Engineering, Universitas Ahmad Dahlan, Yogyakarta, Indonesia

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March 7-11, 2021

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Dr. Ramy Harik, University of South Carolina, USA
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Dr. Md. Abdus Samad Kamal, Monash University, Sunway Campus, Malaysia
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Dr. Motah Mahenderanath, University of Technology, Mauritius
Dr. Boudoua Malik, University of Champagne-Ardenne, France
Dr. Ilias Mamat, Quest International University Perak, Ipoh, Perak, Malaysia
Dr. Fulufhelo Masithulela, University of South Africa
Dr. Abderrahmane Mellak, University of Boumerdes, Algeria
Dr. Yuan Xue Ming, SIMtech: Singapore Institute of Manufacturing Technology, Singapore
Dr. Ruchi Misra, Institute of Management, Nirma University, Ahmedabad, India
Dr. Vladimir Modrak, TUKE, Slovakia

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DISTINGUISHED SPEAKERS

Tuesday (March 9, 2021)

Session I: Global Engineering Education
Session Chair: Sheikh F. Ferdous, Indiana State University, Terre Haute, IN 47809, USA
8:00 – 9:20 am (Tuesday, March 9) – Room 1

8:00 – 8:20 am (Tuesday, March 9)
Dr. David Lin Weidong
Assistant Professor
Singapore Institute of Technology (SIT)
Certified Six Sigma Black Belt by American Society of Quality

David Lin Weidong is currently an Assistant Professor with the Singapore Institute of Technology (SIT). He is a member of IEEE and a principle investigator of research project related to cyber physical digital twin manufacturing system. He obtained both his PhD in System and Industrial Engineering and MBA from Nanyang Technological University of Singapore. He is also a Certified Six Sigma Black Belt by American Society of Quality. His current research interest is in the cyber physical digital twin system, systems modelling and simulation.

ID 241 An Integrated Engineering Education Alignment Model towards Industry 4.0
W.D. Lin and M. Y. H. Low, Singapore Institute of Technology, Singapore

8:20 – 8:40 am (Tuesday, March 9)
Josephine D. German
Associate Professor
School of Industrial Engineering and Engineering Management
Mapua University, Manila, Philippines

Josephine D. German is an Associate Professor of the School of Industrial Engineering and Engineering Management at Mapua University in Manila, Philippines. She has earned her BS in Industrial Engineering and Masters in Engineering (major in IE) from the same University. She is a Professional Industrial Engineer (PIE) with over 15 years of experience and has taught several courses in IE. She has done several research projects in the field of logistics and supply chain management, systems modelling, entrepreneurship, risk management, vulnerability assessments, and ergonomics and has an extensive experience in academic audits and accreditations. She is also a member of the Philippine Institute of Industrial Engineers (PIIE).

ID 475 Employability and Achievement of Program Educational Objectives: A Graduate Tracer Study for Industrial Engineering (IE), Engineering Management (EMG), and Service Engineering Management (SEM) Programs of an HEI in the Philippines
Josephine D. German, Ma. Lourdes O. Buan, Alyana Bianca G. Carreon, and Marjorie Joyce D. Ochoa
School of Industrial Engineering and Engineering Management
Mapua University, Manila, Philippines

8:40 – 9:00 am (Tuesday, March 9)
Dr. Moe Moe Myint
Associate Professor, Department of Information Technology
Technological University (Mandalay), Myanmar

Dr. Moe Moe Myint, is working as the associate professor at Technological University (Mandalay), Myanmar, having research and teaching experiences of more than 9 years. She received Ph.D degree from Yangon Technological University (YTU) in 2015. She has published more than 10 publications in international/national journals and conference proceedings. She received paper award for her research contributions at Technological University (Kyaukse) in 2016 and congratulations award for Adult Literacy Program Contributions in 2019. She has delivered some invited talks in international conferences and Faculty development programme. She is serving as a reviewer and member at international advisory/technical program committees in conferences of India. She successfully organized three workshops related to Embedded System course. She has completed the international/national courses related to Outcome based Education (OBE) on Professional Development Workshop Using MekongSkills2WorkToolkits, OBE and Academic QA, Curriculum Design for Engineering Degree, 21st Century University Education, Curriculum Development Workshop, Different Applied International Business Management Systems and Strategies for Interdisciplinary Engineering Services and Requirements and Inservice Technical Teacher's Training on Teaching Methods and Student Evaluation. Her research interests include image processing, embedded system, IoT and OBE.

ID 536 An Explorative Study to build the Work Readiness for Engineering Students
Moe Moe Myint, Thiri Kyaw and Zin May Zaw, Department of Information Technology, Technological University (Mandalay), Myanmar
Sheikh Fahad Ferdous, Ph.D.
Assistant Professor
Department of Applied Engineering and Technology Management
Indiana State University, Terre Haute, IN 47809, USA

Sheikh Fahad Ferdous, Ph.D. is an Assistant Professor in the Department of Applied Engineering and Technology Management at the Indiana State University, USA. Before that, he served as a lecturer at the University of Massachusetts Dartmouth and a visiting assistant professor at Binghamton University – SUNY. He earned B.S. in Mechanical Engineering from Bangladesh University of Engineering and Technology and Ph.D. in Mechanical Engineering from University of Texas at Arlington. His research interests include nano-mechanics and nano-composites, multi-scale modeling, bio-mechanics, resilient ceramic materials, and engineering education.

ID 090 Comparing Ph.D. in Engineering Management and Technology Management Programs
Sheikh F. Ferdous, M. Affan Badar, James N. McKirahan, and A. Mehran Shahhosseini, Department of Applied Engineering and Technology Management, Indiana State University, Terre Haute, IN 47809, USA

Session II: Global Engineering Education
Session Chair: Dr. Mohammad Yeakub Ali, University Technology Brunei
1:00 – 2:40 pm (Tuesday, March 9) – Room 1

1:00 – 1:20 pm (Tuesday, March 9)
Dr. Jafri Mohd Rohani
Head of the Industrial Engineering Programme
Department of Materials, Industrial and Manufacturing Engineering
Faculty of Mechanical Engineering
Universiti Teknologi Malaysia
Skudai, Johor, Malaysia

Curriculum Design/ Benchmarking of Industrial Engineering Program

Jafri Mohd Rohani is a Senior Quality and Statistical Engineering Lecturer. He is also Head of the Industrial Engineering Programme at the Department of Materials, Industrial and Manufacturing Engineering, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai, Johor. Currently, he is the President of JohorCost and Quality Engineers Society. He is a member of the American Society for Quality (ASQ) and Human Factor Society of Malaysia.

1:20 – 1:40 pm (Tuesday, March 9)

Dr. Kinnaleth VONGCHANH
Senior Lecturer-Research, Thermal Laboratory
Department of Industrial and Mechanical Engineering
Institute of Technology of Cambodia (ITC)
Phnom Penh, Cambodia

Dr. Kinnaleth Vongchanh is an international senior lecturer and research in Department of industrial and mechanical engineering; she has led thermal laboratory, ITC. Her major is about energy efficiency, waste to energy, solar drying, and heat stress. She has been a main principal investigator for various grants at National university of Laos and Institute of Technology of Cambodia. She has joined research collaboration with many universities including EUROPI ASIA. Besides that, Dr. Kinnaleth VONGCHANH is working closely with ministry of mine and energy, and ministry of environment in Cambodia to support the ministry on energy efficiency policy for GHG emission reduction. Moreover, she has good collaboration with industrial and private sectors related to energy efficiency and management. Dr. K. Vongchanh has received the best researcher award and the best top three research in ITC for continuously. She also received an award in the 2020 ASEAN Energy Awards. She is a senior woman working in field of energy in Laos and Cambodia.

2:00 – 2:20 pm (Tuesday, March 9)

Soma Chakrabarti, Ph.D.
Education Programs Team Lead
Ansys Granta, Cambridge, CB1 7EG, UK

Designing Global Engineering Education in the Era of Industry 4.0

Soma Chakrabarti leads the Education Programs and Resources team at the Ansys Granta, located in Cambridge, UK. Earlier she has worked as the assistant dean of Summer Term at the University of Wisconsin-Madison, director of Continuing Studies at the University of Delaware, and the director of Center for Engineering and Interdisciplinary Professional Education at the University of Kansas. She is known for developing professional education programs for and partnerships with all major aircraft manufacturers in the world. She is the current first vice president of International Federation of Engineering Education Societies, the current president of International Association for Continuing Engineering Education and a director of the College-Industry Partnership Division Board. She has a Ph.D. in biochemical engineering and biotechnology from Indian Institute of Technology, Delhi.
3:00 – 4:40 pm (Tuesday, March 9) – Room 1

Session III: Global Engineering Education

Session Chair: Dr. Devinder Banwet, Vice Chancellor Founding, University of Engineering & Management, Kolkata India
3:00 – 4:40 pm (Tuesday, March 9) – Room 1

Corina Pacher
Resources Innovation Center
Montanuniversitaet Leoben
Franz Josef-Strasse 18, 8700 Leoben, Austria

ID 282 Virtual E-Learning Community Hub – For Higher Education in the Raw Materials Sector

Corina Pacher is an Education Project Manager at the Resources Innovation Center in Leoben. She studied pedagogical and educational science at the University of Klagenfurt with a specialization on social and inclusive education as well as on professional education. During and after her studies, she gained work experience, e.g., as the head of educational programs and in different social public service enterprises as social education worker. Currently, she is mainly focusing on raising the awareness for a resource-orientated handling of raw materials by connecting research, education, and society, e.g., by building and expanding skills and competencies of students through training initiatives.

Matteo De Marchi
Smart Mini Factory lab for Industry 4.0
Research Group Industrial Engineering and Automation (IEA)
Free University of Bolzano, Italy

Matteo De Marchi is doctoral student at the Smart Mini Factory lab for Industry 4.0 at the research group Industrial Engineering and Automation (IEA) of the Free University of Bolzano (Italy). His research interests are in digital twin, industry 4.0, automation 4.0, collaborative robotics and intelligent manufacturing systems.

ID 249 Needs Analysis for Education and Training on Automation 4.0 in Thailand

Erwin Rauch and Matteo De Marchi, Industrial Engineering and Automation (IEA), Free University of Bozen-Bolzano, Bolzano 39100, Italy

Prajaks Jitngernmadan, Digital Media and Interaction Laboratory, Faculty of Informatics, Burapha University, Chon Buri 20131, Thailand
Felipe M. Martin, Department of Electrical Engineering, Universidad de Oviedo, Área de Ingeniería de Sistemas y Automática Gijón, Spain

3:40 – 4:00 pm (Tuesday, March 9)

Dr. Md. Mizanur Rahman, CEng, Chartered Energy Engineer
Senior Lecturer, School of Mechanical Engineering
University Technology Malaysia (UTM)
Skudai, Johor Bahru, Malaysia

Md. Mizanur Rahman is currently a Senior Lecturer at Thermo-Fluids Panel, School of Mechanical Engineering, Universiti Teknologi Malaysia UTM. He has more than 2-year working experience in a government statutory body namely Bangladesh Rural Electrification Board (BREB), Bangladesh. During his tenure in BREB, Mizanur has gathered practical experiences in dealing with techno-economic and sociocultural challenges faced by rural electrification program. He has accumulated deep insights towards the solution pathways for the Global Mega-challenge of having 1.2 billion people without access to electricity yet. Mizanur has profound understanding into the global energy sector challenges and its societal implications. He has received his Ph.D. in Energy Economics and Power Plant Engineering from Aalto University, Finland, M.Sc. in Sustainable Energy Engineering from Royal Institute of Technology KTH, Sweden, and B.Sc. in Mechanical Engineering from Khulna University of Engineering and Technology, Bangladesh. His research interests include Thermodynamics, low temperature Kalian cycle, energy economics, energy management, energy efficiency...
Mizanur has several publications in International refereed journals in energy engineering domain.

4:00 – 4:20 pm (Tuesday, March 9)

**Dr. Tiia Rüütmann**  
*Associate Professor Engineering Pedagogy/Higher Education Pedagogy*  
*Ph.D Education (Engineering Pedagogy); M.Sc. Chemical Engineering*  
*Head of Estonian Centre for Engineering Pedagogy, School of Engineering*  
*Tallinn University of Technology TalTech, Tallinn, Estonia*  

**Engineering Pedagogy Science as the Basis of Effective Teaching Engineering**

Tiia Rüütmann is Associate Professor and Head of Estonian Centre for Engineering Pedagogy at the Department of Mechanical and Industrial Engineering, School of Engineering, Tallinn University of Technology (TalTech), Estonia. She is also a visiting professor at Peter the Great Polytechnic University of St Petersburg (Russia) in the field of Engineering Pedagogy. She graduated TalTech as Diploma Engineer in the field of Chemical Engineering and Cybernetics in 1982, and received her second MSc in chemical engineering at TalTech in 1992. She defended her PhD in education (with specialization in Engineering Pedagogy) at University of Hradec Králové, Czech Republic in 2007. She is a member of International Society for Engineering Pedagogy (IGIP) since 2003, and received the qualification of International Engineering Educator ING.PAED.IGIP in 2004. She is a member of IGIP Executive Committee and the president of IGIP International Monitoring Committee since 2010. Tiia is a member of SEFI, IEEE Education Society, Nordic-Baltic Network in Higher Education Development, Delta Kappa Gamma International Society for Key Women Educators, and IEEE EDUCON advisory board. She is the author and co-author of more than 90 peer-reviewed articles. She has written several book chapters and published a Handbook on Engineering Pedagogy Science and STEM didactics in 2019. She has delivered workshops on engineering pedagogy in Europe, Russia, Brazil, Mexico, China and Argentina. She has participated in 18 research projects and coordinated five of them. Her field of expertise and research are Engineering Pedagogy Science, effective teaching of engineering, STREAM pedagogy, university didactics, laboratory didactics, e-learning didactics, innovative methodologies, course and curriculum design in engineering education.

4:20 – 4:40 pm (Tuesday, March 9)

**Dr. Devinder Banwet**  
*Vice Chancellor Founding University of Engineering & Management Kolkata India*  
*Professor Emeritus, IIT Delhi*  

**NEP 2020 and Pandemic impact disruption impact on Indian Education: Teaching Learning Evaluation Assessment: Some observations and remedies**

Prof. Devinder Kumar Banwet is Vice Chancellor at University of Engineering & Management Kolkata India. He is an Emeritus Professor of DMS IIT Delhi in the area of Operations & Supply Chain Management and a Fellow of the Institution of Engineers (India). He is a Graduate Mechanical Engineer, with Master of Industrial Engineering and PhD from IIT Delhi. Previously he served as a Vice Chancellor of the University of Engineering and Management at Kolkata. He has made significant contributions in publications related to Operations Management. His areas of research interest include Operations Management, Supply Chain and Logistics Management, Project Management, IT-enabled DSS, Industrial Systems Engineering, Total Quality Management, Manufacturing Strategy, Technology Management, Materials Management, Facilities Planning, Operations Research Modelling, Telecom Systems and Entrepreneurship Management.

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**Session IV: Global Engineering Education**

**Session Chair: Dr. Sara Elzarka, Arab Academy for Science, Technology & Maritime Transport, Alexandria Egypt**

5:00 – 6:40 pm (Tuesday, March 9) – Room 1

5:00 – 5:20 pm (Tuesday, March 9)

**Dr. Sara Elzarka**  
*Dean, International Transport & Logistics Institute*  
*Arab Academy for Science, Technology & Maritime Transport Alexandria Egypt*  

Bio: Dr. Sara Elzarka is the dean of the International Transport & Logistics Institute- Arab Academy for Science, Technology and Maritime Transport in Alexandria Egypt. She is an Associate Professor of Supply Chain Management who teaches in both undergraduate and postgraduate programs. Dr. Elzarka holds a PhD in Supply Chain Management from the University of Huddersfield in the UK and works as a freelance consultant for the EIB (European Investment Bank) and the EU commission on projects in the field of logistics in the MENA region. She is also a board member of the European Logistics Association ELA. Dr. Elzarka published many empirical research papers on logistics and supply chain skills and competences, supply chain performance, supply chain risk management, sustainability and green supply chain management in international journals and conferences. She was previously the head of the supply chain management department at the College of International Transport & Logistics as well as the Education Chairperson of the Council of Supply Chain Management Professionals – Egypt Roundtable.

5:20 – 5:40 pm (Tuesday, March 9)
Dr. Deepak L. Waikar
Managing Partner, EduEnergy, Singapore
Chair, The IEEE Education Society Chapter, Singapore

Be an Edutainer to Mesmerise the Learners

Dr. Deepak L. Waikar started his professional career as an Assistant Director at the National Power Engineers Training Institute in India after his post-graduation from the Institute of Technology, Banaras Hindu University. Since then he has been involved in education, training, research, and management fields for almost three decades in India, Canada, and Singapore. He has been Associate and Adjunct Faculty for the local and overseas Institutes, Academies, Polytechnics, Colleges, and Universities. He is a Managing Partner for EduEnergy, Singapore. He has authored/co-authored book chapters, research articles, and policy papers on power, energy, management, education, and training related topics. He has served on various committees in professional bodies. He is a recipient of IEEE Power Engineering Society Outstanding Power Engineers’ Award 2003 and SP-Green Buddy Award 2004. He has delivered invited presentations at international conferences, seminars, and forums. He has conducted several students, faculty, and management development programmes. “Be a Researcher”, “Clean & Green Energy”, “Trainopreneurship”, & “Smart Career Portfolio” are some of the sought-after programmes. Dr. Waikar is a Senior Member of IEEE, Member of IUCCE Foundation, India and a life member of the Institution of Engineers, India. He completed his Ph.D. from the National University of Singapore, M.S. from the University of Saskatchewan, Canada, and PD Advanced Cert in University Teaching from the University of Newcastle, Australia. He obtained PG-DBM from the Nagpur University, M.Tech. from the Banaras Hindu University, and B.E. from the Government Engineering College, Aurangabad in India, respectively. His interests include Sustainable, Clean, and Green Energy Leadership, Re-thinking Teaching, Learning, and Academic Leadership, Re-inventing & Transforming Education, Innovative Project Design & Management, SMART Education Model, Sustainable Development, cricket & chess.

5:40 – 6:00 pm (Tuesday, March 9)

Dr. Nguyễn Văn Hữu
Dean, School of Industrial engineering and management
International University - Vietnam National University of HCMC
Ho Chi Minh City, Vietnam

6:00 – 6:20 pm (Tuesday, March 9)

Assoc. Prof. Korakan PASOMSOUK
Head, Department of Mechanical Engineering
Faculty of Engineering
National University of Laos
Sokpaluang Campus
Laos

6:20 – 6:40 pm (Tuesday, March 9)

Dr. V Vasu
Associate Professor
Dept. of Mechanical Engineering
National Institute of Technology (NIT)
Warangal, India

Learning through community service-based projects

Dr. V. Vasu is graduated in Mechanical Engineering from V R Siddhartha Engineering College, Vijayawada in 1999. Earned his post-graduation in Manufacturing Engineering from BITS, Pilani in 2003, PhD from JNTU, Hyderabad in 2010 and POST-DOC under Erasmus Mundus fellowship from Politecnico Di Milano, Italy, Europe 2014. Presently, he is serving as an Associate Professor at National Institute of Technology, Warangal, India. He has published several papers in international journals and has participated in several conferences and presenting technical papers. He developed online pedagogy course for “Mechatronics” and Systems & Controls under ICT MHRD, India. He has guided 4 PhD works and is currently guiding 3. He was awarded Young Engineer 2010 Award by IE India and Govt. of AP and Outstanding researcher in Nanotechnology Awards 2016. He also member in Siemens Centre of excellence Industry 4.0, NITW.

Session V: Global Engineering Education

Session Chair: Dr. Mohd Khairol Anuar bin Mohd Ariffin, Universiti Putra Malaysia
7:00 – 8:45 pm (Tuesday, March 9) – Room 1
7:00 – 7:20 pm (Tuesday, March 9)

**Bertha Maya Sopha, Ph.D.**
Associate Professor and Former Director of Industrial Engineering  
Universitas Gadjah Mada, Indonesia  
Chair of Indonesian Association of Industrial Engineering Higher Education Institution (BKSTI)

**Industrial Engineering Education in Indonesia**

Bertha Maya Sopha is an Associate Professor of Industrial Engineering Program, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Indonesia. She was a former head of the Laboratory of Supply Chain Engineering and Logistics in 2013-2015, and a former director of Industrial Engineering Undergraduate Program in 2016-2021. She currently serves as a chair of Indonesian Association of Industrial Engineering Higher Education Institution (BKSTI). She earned Bachelor of Engineering (best graduate) from Universitas Gadjah Mada, a master's degree of Management of Production specialization on Transportation and Logistics (graduate with distinction) from the Department of Industrial Economics and Technology Management, Chalmers University of Technology, Sweden. She holds a PhD from the Industrial Ecology Programme, Norwegian University of Science and Technology (NTNU), Norway. She has maintained a high quality of research throughout her academic career including international scholarly leadership in the areas of supply chain management and logistics, industrial ecology, and complex system modelling. She has been invited as a keynote speaker and given public lectures at symposiums and international conferences in Indonesia and abroad universities. She has also received various academic achievements, awards, and recognitions such as the Best Lecturer runner-up at Universitas Gadjah Mada, best paper awards at several international and national conferences, and research grantee awards from both Indonesia and abroad institutions. She has professional and community engagement activities to contribute significantly to improve the university’s reputation through industrial projects and community services. She has also been active as journal reviewers in both reputable international journals and national journals. She has also held an intellectual property on Simulasi Logistik Kebencanaan Merapi (SILOKA) (Simulation of Merapi Disaster Logistics).

7:20 – 7:40 pm (Tuesday, March 9)

**Hemlal Bhattarai**
Dean, Research and Industrial Linkages (DRIL)  
Lecturer: Department of Electrical Engineering  
Royal University of Bhutan  
Jigme Namgyel Engineering College  
Dewathang, Samdrup Jongkhar, Bhutan

**Perspective on Academic, Research and Linkages in the near future**

Currently working as Dean Research & Industrial Linkages since 2015. Prior to working as Dean, he has served as Head of Electrical Engineering. He was also Project Manager of for “Promoting energy efficient lighting in Nepal and Bhutan (ELNAB)” which completed in Jan-2019 and the Project Manager & Project Advisory Committee of ongoing projects on “Enhancing Problem Based Learning for South Asian Universities” both of which is funded by Erasmus Project of European Union. He has taught in the Department of Electrical Engineering since 2006 and has mostly been associated with teaching power systems, energy management & auditing, power electronics, renewable energy, high voltage engineering, research methodology and entrepreneurship. Hemlal research area of interests includes power engineering and energy systems with major focus on Renewable Energy and has been associated with many international conferences/publications including IEEE as program committee, keynote speaker and reviewer. He is currently the focal for Thematic Working Group (TWG) on Energy from Bhutan for ICIMOD.

7:40 – 8:00 pm (Tuesday, March 9)

**Prof. Ir. Dr. Mohd Khairol Anuar bin Mohd Ariffin**
Professor of Manufacturing Engineering  
Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor Darul Ehsan, Malaysia

Dr. Mohd Khairol Anuar Mohd Ariffin obtained his Degree from University of Northumbria at Newcastle in year 1998. He has completed his Master of Science from Universiti Putra Malaysia in 2001 and received his Ph.D. in Mechanical Engineering from Sheffield University, UK in 2006. He is currently a Professor in Department of Mechanical and Manufacturing Engineering, Faculty of Engineering Universiti Putra Malaysia. He is a professional engineer register under Board of Engineers Malaysia since 2013 and produced almost 200 journal papers.

8:00 - 8:20 pm (Tuesday, March 9)

**Syafa Lisaholit, M Chairul Basrun Umanailo**
Universitas Iqra Buru  
Namlea, 97571, Indonesia

ID 1022  The Effect Of Self-Effect On Student Learning Achievement

8:20 – 8:40 pm (Tuesday, March 9)
Dr. Boon Leing TAN  
Guest Professor  
Xi’an International University  
Singapore

Dr Tan currently lectures at various universities, in the areas of Operations Management and Business Management, where he also supervises dissertation students at UG, PG and Doctoral levels. He is currently a guest professor with Xian Jiaotong University and consults at Student Services Consultancy (Singapore). He was also Professor of Management at Xian Jiaotong Liverpool University and the Academic Director (Deputy Dean) at PSB Academy, where he served on the Academic Board and as the Chair of the PSB Examination Board, and T&L Committee.

Dr Tan holds a BSc (Hons) Operations Management (2000) and a PhD in Business and Management (2005). His areas of expertise includes Operations Management, Project Management and Strategy Management. His work experience includes teaching responsibilities covering general Business Management subjects including Marketing, HR and OB and IT security subjects.

Boon was Head of Business School at MDIS from 2011 to 2012 where he had oversight on strategic directions and operations of MBS and was also the Singapore programme director for GGSB’s highly acclaimed MIB. Prior, Boon served as the founding HoD and Professor of Management at the Department of BEM, Xian Jiaotong Liverpool University from Aug 2007 to 2010. Before XJTLU, Boon has over 6 years of lecturing experience with both large and small groups of undergraduates and postgraduates. He was a contract lecturer in Aston Business School from 2001 and joined Sunderland Business School as senior lecturer in 2005, where he was also the leader of the e-Business and Knowledge Management research team.

Boon publishes regularly in leading academics journals and international conference proceedings. He currently serves on the editorial boards of the Journal of Manufacturing Technology Management, International Journal of Information and Operations Management Education, the Journal of Management and Training for Industries and International Journal of Public Sociology. His research interests are Industry 4.0, servitization, e-business management, technology management supply-chain management, business process re-engineering, and quality management. He also serves/ has served as a reviewer for numerous journals including JMTM, IJBPM and EM.

Session VI: Global Engineering Education Panel

9:00 – 10:30 pm (Tuesday, March 9) – Room 1

Panel Chair  
Donald M. Reimer  
Director of Membership and Chapter Development – IEOM Society  
President, The Small Business Strategy Group, Detroit, Michigan, USA  
Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering  
Lawrence Technological University, Southfield, Michigan, USA

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs’ Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Director of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs’ Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.

Panel Speaker I 
Dr. Manuel Woschank  
Senior Lecturer, Senior Researcher and Chair of Industrial Logistics  
Montanuniversitaet Leoben, Austria  
Adjunct Associate Professor at the Faculty of Business, Management and Economics at the University of Latvia

Manuel Woschank received a diploma degree in industrial management and a master’s degree in international supply management from the University of Applied Sciences, FH JOANNEUM, Graz, Austria, and a Ph.D. degree in management sciences with summa cum laude from the University of Latvia, Riga, Latvia. He is currently a Senior Researcher, Senior Lecturer, and the Deputy Head of the Chair of Industrial Logistcs at the Montanuniversitaet Leoben and an Adjunct Associate Professor at the Faculty of Business, Management and Economics at the University of Latvia. He was a visiting scholar at the Technical University of Kosice (Slovakia), and at the Chiang Mai University (Thailand). His research interests include the areas of logistics system engineering, production planning and control systems, logistics 4.0 concepts and technologies, behavioral decision making, and industrial logistics engineering education.

Panel Speaker II
Dr. Nidhi M B (Fellow IIIE)
Associate Professor, Mechanical Engineering Department
Mar Baselios College of Engineering & Technology, (MBCET)-Autonomous
Thiruvananthapuram, Kerala, India
National Executive Council Member ISTE, New Delhi

Prof. Nidhi M B is currently working as Associate Professor in Dept. Mechanical Engineering Dept. of Mar Baselios College of Engineering and Technology, Trivandrum, Kerala. She is also in the capacity of National Executive Council Member of ISTE (Indian Society for Technical education) (2015-2024) and joint Secretary to IIIE (Indian Institute of Industrial Engineers, Kerala chapter) (2011-2012, 2014-2015, 2015-2016, 2019-2021). She has being serving as State Management Committee Member ISTE Kerala section from 2012-2015. Apart from the above responsibilities she has consistently initiated the release of Kerala Section Newsletter for the last 8 years, in the capacity as Newsletter Editor. She received the best faculty advisor award for 2020 on the occasion of 31st ISTE Annual Faculty Convention of Kerala section from Hon.Governor of Kerala on 23 Jan 2021. She has won the National award instituted by IIIE during 58th National convention is IIIE on 22nd OCT 2016, for her substantial contributions in Industrial Engineering and awarded Fellow ship 2019. She has been instrumental in bridging the Industry Academia Gaps, and she is coordinating more 5 inter-disciplinary projects with industry apart from current teaching responsibilities on the interest of the Institution and completed few funded projects. Dr Nidhi MB has been a special invitee to GEDC (Global Engineering Deans Council Summit), Singapore, IEOM to women in Engineering during March 2016, Malaysia. She has been instrumental in initiating ISTE Faculty and Student Chapters in MBCET, lead the chapter under her chairmanship to present stature. Currently she is serving as the Faculty advisor of ISTE-MBCET students Chapter and won the Best student chapter award for the institution from ISTE Kerala section in 2020. Under her leadership the ISTE Chapter has organised many events for the benefit of students and Faculty. The Chapter has won 10 awards within the short span of 8 years. She has delivered many Keynotes addresses and Invited Lectures at State, National and International forums. She has to her credit 40 papers in National, International Journals and Conferences of which 8 papers are in education research. She is also reviewer of journals and conferences in areas relating to Sustainability in Engineering, Supply Chain Management, Engineering & Technology trends in Mechanical Engineering, etc. Her areas of interest include Pedagogy and Training, Outcome Based Education, Changing roles of Industrial Engineering, Design and Engineering, Green Supply Chain Management, Industry 4.0, smart manufacturing systems, Nature inspired algorithms, etc.

She graduated from the SCT College of Engineering in BTech Mechanical Production in the year 2001. She worked in Industry Leela Lace International Ltd, as Industrial Engineer for 3 years. There by developing a passion for Industrial Engineering, she pursued her Master’s Degree in Industrial Engineering from CET, Kerala, (2006-2008). Since then she started her career in Engineering Education as lecturer, Sr Lecturer and as Asst. Prof with Saintgits College and Mar Baselios College of Engineering and Technology. She has also won many Best Paper Awards in various forums of International conferences and National Conventions. She is also serving as mentor to other ISTE chapters in Kerala. She earned her doctoral degree from the National Institute of Technology Calicut on Sustainability assessment of supply chain network under carbon trading scheme.

Panel Speaker III

Dr. Erwin Rauch
Assistant Professor in Manufacturing Technology and Systems
Head of the Smart Mini Factory laboratory for Industry 4.0 application
Free University of Bolzano, Italy

The role of learning factory labs for teaching Industry 4.0

Erwin Rauch is an Assistant Professor in Manufacturing Technology and Systems at Free University of Bolzano, Italy. He received his BSc in Logistics and Production Engineering from the Free University in Bolzano (Italy). He also holds an MSc in Mechanical Engineering from the Technical University Munich (TUM) and a Master in Business Administration from the TUM Business School. Since 2007, he worked in a Management Consultancy as a Consultant for Lean management. Later he obtained his PhD in Mechanical Engineering at the University of Stuttgart in Germany. Since 2014, he is Assistant Professor at the Free University of Bolzano and in 2017 Visiting Researcher at Worcester Polytechnic Institute (WPI) in Worcester, MA (USA). Further, he is Head of the Smart Mini Factory laboratory for Industry 4.0 application at the Free University of Bolzano. His research interests include industry 4.0, axiomatic design, agile and reconfigurable manufacturing systems as well as optimization in SMEs.

Panel Speaker IV

Submissions Received from Countries and Territories

| 1. Algeria         | 17. Germany       | 33. Mexico       | 49. South Korea  |
| 2. Australia       | 18. Ghana         | 34. Morocco      | 50. Spain        |
| 10. Colombia       | 26. Italy         | 42. Poland       | 58. UK           |
| 11. Ecuador        | 27. Japan         | 43. Portugal     | 59. USA          |
| 12. Egypt          | 28. Jordan        | 44. Qatar        | 60. Uzbekistan   |
| 15. Finland        | 31. Latvia        | 47. Slovenia     | 63. Zambia       |
8:00 – 9:20 am (Wednesday, March 10)

**Distinguished Speakers**

**Richard J. Sherman**
Senior Fellow, Supply Chain Centre of Excellence
Tata Consultancy Services (TCS)
Austin, Texas, United States

Richard Sherman is an internationally recognized author and thought leader on trends and issues across supply chain management. He currently serves as Senior Fellow, Supply Chain Centre of Excellence, Tata Consultancy Services (TCS). His book Supply Chain Transformation: Practical Roadmap for Best Practice Results (Wiley, 2012) has received praise by practitioners, academics, and non-supply chain executives as a great read on business transformation. As a research director, he successfully launched the supply chain advisory services for AMR Research (now Gartner) and led in the development of the SCOR® model, founding the Supply Chain Council, and serving on its Board. Mr. Sherman has served on the working committees for several industry initiatives including DAMA/Quick Response, Efficient Consumer Response (ECR), and Collaborative Planning, Forecasting, and Replenishment (CPFR). Throughout his career, Mr. Sherman has held senior management positions with visionary technology firms such as EXE, Syncra, and Numetrix, and marketing leading corporations such as Microsoft, Information Resources (IRI), Mercer Management Consulting, Digital Equipment Corporation (DEC), and Unisys. He has contributed scores of articles and speaks frequently on supply chain trends and models. Rich received his BA and MA from Notre Dame.

8:20 – 8:40 am (Wednesday, March 10)

**Ts. Dr. Fairul Anwar Abu Bakar**
Phd Engineering Technology (Manufacturing)
Senior Lecturer, Quality Engineering Section / Head of Postgraduate Section
Universiti Kuala Lumpur (UniKL), Malaysian Institute of Industrial Technology (MITEC)
Professional Technologist (Malaysian Board of Engineering Technology, MBOT) PT18050805
Chartered Professional Member (Chartered Quality Institute, CQI, United Kingdom) MCQI 6034604

Despite the role as a Senior Lecturer in Universiti Kuala Lumpur (UniKL) MITEC in Quality Engineering, most of the contributions focused to build the future technologist in Engineering Technology field. Play a position as Industrial Training Coordinator for UniKL-MITEC since 2010 in providing continuous sustainability of university-industry linkages and collaboration. Previous position was Section Head of Quality Engineering Section and currently hold a post as Head of Postgraduate Section at UniKL-MITEC. Expert subjects thought at UniKL-MITEC; Lean Six Sigma (Certified Trainer from Motorola University, Master Black Belt, UniKL), Design of Experiment (DOE), Taguchi Methods (Shin Taguchi – UTM), Statistical Quality Control (SQC/SPC), Quality Tools and Improvement Methods (QC Tools, FMEA etc.) and Innovative and Creative Circles (ICC). Completed PhD in Engineering Technology (Manufacturing), focus on Lean Six Sigma deployment for SME using Technology Acceptance Model (TAM).

With Certified Train the Trainer (TTT) from Malaysian Institute of Management; he managed to developed and successfully conducted the training and consultancy to internal / external organization in the field of QCC / ICC, Lean Office Management, Lean Healthcare and customize teambuilding with interactive hands-on activities / simulations. Successfully accomplished several Lean Six Sigma and QCC/ICC projects at DRB-HICOM Automotive, Faber Group Berhad (UEM Group), Panasonic AV, PSB Decoration (Nusajaya). Appointed as sole consultant by PEMANDU, Prime Minister Department (Public Service Delivery Transformation – PSDT), to roll-out Lean Healthcare & Lean Agile program among all state hospital (under Ministry of Health) throughout Malaysia since 2013 with splendidly applied at 4 pilot hospitals; HSA & HSI, Johor Bahru, HTAR, Klang and Hospital Kuala Lumpur (HKL) and continuous leverage at all state hospitals around Malaysia. Prior to join academic field, he had around 9 years vast experienced in manufacturing industry from multi-national company i.e. Hewlett-Packard, Western Digital, Flextronics and Brother which mostly expertise in quality, production, industrial engineering, maintenance and NPI department.

8:40 – 9:00 am (Wednesday, March 10)

**Kar Heng LEE**
TBSS Center for Electrical and Electronics Engineering, Singapore
Cong Ty TNHH Cong Nghe va Giam Sat Radar TBSS, Vietnam

Being an Engineerpreneur in Vietnam as a Singaporean

Dr LEE KH is an Engineer turned Entrepreneur, he founded TBSS companies from 2012 in Singapore and started a company in Ho Chi Minh City from 2013. Today, TBSS Radar Technology and Surveillance Company Limited in Ho Chi Minh City has delivered 1 coastal surveillance radar, 9 vessel traffic radars, 2 radar training systems and security and surveillance systems in Vietnam, TeamTBSS had also implemented surveillance-related projects in Cambodia, Myanmar and Pakistan. Lee’s company also assists Singaporeans and foreigners to acquire business
Dr LEE is certified to teach in Higher Education by the Staff Education and Development Association, UK. He taught Communications Engineering specialization subjects and supervised Final Year Project students with various universities such as the SIM University, University of Newcastle, James Cook University, University of Southern Queensland, RMIT University, Northumbria University and Edith Cowan University undergraduate and graduate programs. Dr LEE had developed Wireless and Optical Communication Systems course materials for the SIM University. He is appointed a Senior Adjunct Lecturer by the Edith Cowan University based in Singapore to ensure smooth running of the Bachelor of Engineering courses in Singapore. LEE is also a Keysight Certified Expert.

Lee had served as a Chairman and Secretary in the Education Chapter, IEEE Singapore Section. Currently, Lee is serving in the board of Vietnamese Association in Singapore as the Senior Advisor for Science and Technology and as an Advisor in the Vietnam Chamber in Singapore. He is a School Advisory Committee member of Henry Park Primary School appointed by the Ministry of Education. Dr Lee is also the Founding President of the Association of Old Crows (an Electronic Warfare Professional Association), Singapore Chapter. Lee graduated from NUS with Master of Engineering and Bachelor of Technology (Hons) degrees. Dr Lee also holds a Master of Science from the University of Sheffield and a Ph.D in Engineering Management.

Dr Lee has published over 50 papers in International conferences and research programs. He had presented papers on Antennas, Electronic Warfare, Radar, Training and Entrepreneurship internationally in Washington DC, Hawaii, Beijing, Chongqing, Maldives, Taiwan, Hong Kong, Bangkok, Philippine, Italy, Switzerland, Indonesia, Malaysia and Singapore. He had also been appointed to Program or Technical Committee in several international conferences including the IEEETALE.

9:00 – 9:20 am (Wednesday, March 10)

Paul W Bradley
Chairman and CEO
Caprica International
Singapore

Paul W. Bradley has been involved in supply chain management and international business throughout his entrepreneurial career spanning senior leadership positions in global companies, the creation of 5 start-up companies and participating in the successful launch of two IPO’s. He has established new business entities in China, South East Asia, India and the United States. Mr. Bradley is the CEO of Caprica International. He previously served as President of Arushiya Limited headquartered in India (publicly traded on the Bombay Stock Exchange), creating the first FTWZ Logistics Parks in the country’s history integrated with a private rail network of 19 trains, logistics and SCM services and a technology solutions company. He also served as Managing Director of IDS International (a member of the Li & Fung Group, publicly traded on the Hong Kong Stock Exchange). He is also a CEO Mentor and advises new Tech Ventures in Asia. He currently serves on the Singapore (Asia) Advisory Board of Ecole Hoteliere de Lausanne; Emeritus Council Member of Supply Chain Asia; Strategic Advisor to Gray International; and on the Industry Advisory Board of the S.P. Jain School of Global Management. He is also involved with new technology ventures and previously served as an Advisory Board Member of the Kairos Society, ASEAN Region; on the Executive Leadership Council of the Thunderbird School of Global Management (ASU); and several other business and government advisory boards. He is a Fellow of the Chartered Institute of Logistics and Transport, London; a Senior Fellow of Supply Chain Asia, Singapore; and a Certified Professional Logistician of CILT.

Mr. Bradley received his MBA Degree in International Management from the Thunderbird, School of Global Management. He was selected by the World Economic Forum as one of the forty “New Asian Leaders” at an award ceremony presented by His Majesty King Abdullah II of Jordan and was selected as “Asian Supply Chain Manager of the Year” by Lloyds FTB Publications. He previously worked in NYK Line, APL, the U.S. Senate and the British House of Commons and has served on several Singapore Government Advisory Committees. He is a frequent speaker at global conferences and universities, has written published articles and has been interviewed by Newsweek, Fox Television, the Economic Times of India, the Business Times of Singapore, Excellency Magazine in the UAE, Supply Chain Vietnam and other podcasts and global media.

Session II: Industry Solutions

Session Chair: Dr. Murphy Choy, SSON Analytics, Singapore
1:00 – 2:40 pm (Wednesday, March 10) – Room 1

Ashwini Sharma
Lean Six Sigma Master Black Belt and Scrum Master
Continuous Improvement Coach
Shell
Singapore

Ashwini Sharma is a seasoned professional in BFSI and Minerals & Resources industries, focusing most of his career in building and leading major transformation initiatives. He has 19 yrs of experience in successfully designing and driving cross-geographical Change programs and delivering significant bottom-line results in large complex and matrixed organizations. Ashwini's early training in Engineering and Business Administration, combined with his professional training in Lean Six Sigma set him up for his career in leading large scale Transformation and Change initiatives. He is a seasoned professional in BFSI and Minerals & Resources industries, focusing most of his career in building and leading major transformation initiatives. He has 19 yrs of experience in successfully designing and driving cross-geographical Change programs and delivering significant bottom-line results in large complex and matrixed organizations. Ashwini's early training in Engineering and Business Administration, combined with his professional training in Lean Six Sigma set him up for his career in leading large scale Transformation and Change initiatives. He is an Agile coach and has been asked to help organizations reduce variation and waste, which is still so prevalent. And most recently he has trained himself as an Agile coach and applied his skill set in driving Change globally within the Technology Function of BHP; equipping the Digital Workforce with new Change capabilities to make the organization truly Agile and focused on customer requirements.
Over his career, he has delivered more than $210 mn in benefits across the firms he has worked for. He has coached and mentored more than 40 of his own staff and more than 300 change professionals to help and support them in achieving their career objectives.

1:20 – 1:40 pm (Wednesday, March 10)

**Hirishegan Karuneswaran**  
Business Analyst  
PickMe  
Sri Lanka

Hirishegan Karuneswaran an intrapreneur, and a passionate social tech-startup enthusiast who is a graduate in Business Information Systems from the University of Westminster, United Kingdom.

During his course of study, he has co-founded a blockchain-based digital certificate publishing startup, “Verify” which focuses on reducing the carbon footprint to fight against climate change and He supported as a business consultant for Sri Lanka’s first BaaS startup Niftron (Pvt) Ltd. He also contributed as a co-chairperson of Sri Lanka’s first-ever inter-university startup battle to cultivate the seeds of the startup in the minds of Sri Lankan undergraduates.

His passion for tech and new business has shoved Hirishegan to publish his first academic paper at the 10th IEOM conference and has delivered inspirational talks as a guest speaker for both local and international tech events. Moreover, Hirishegan is one of the very few students at the Informatics Institute of Technology who holds Prof. Andrew Linn and Dr. Peter Bonfield Student Volunteering Appreciation under the CSR category from the University of Westminster for the year 2017 and he also got shortlisted as one of the national finalists of Global Student Entrepreneur Award 2020, Sri Lanka. His research interests include Digital transformation, Entrepreneurship, Strategic planning, Growth hacking, and Digital businesses.

1:40 – 2:00 pm (Wednesday, March 10)

**Dr. Murphy Choy**  
Director of Operations and Technology  
SSON Analytics  
Singapore

Dr. Murphy Choy, Director of Technology and Operations. Doctorate in Professional Studies (PW), Business Analytics, Middlesex University, London; M.Sc in Finance, University College Dublin & B.Sc Statistics, National University Singapore.

Dr. Murphy is an experienced analytics specialist with extensive experience in risk analytics, marketing analytics, social media and Big Data analytics. He has extensive experience in developing new techniques and models to achieve business objectives in real world application. He is also passionate about lifelong learning and is an active contributor to several international publications.

2:00 – 2:20 pm (Wednesday, March 10)

**Mark Tan**  
Assistant Director  
Lean Transformation and Innovation Center (LTIC)  
Singapore Institute of Technology  
Singapore

**Title of Presentation:** Challenges of leading Lean transformation in SMEs (small medium enterprises)

Mark is based in the Lean Transformation and Innovation Centre (LTIC), Singapore Institute of Technology (SIT) since 2016 and is responsible for delivering training and improvement projects to various industries, from SMEs (small medium enterprises) to MNCs across multiple sectors including engineering, logistics, professional services, F&B and healthcare. He is a certified Black Belt and conducted public and corporate workshops for various process improvement methodologies ranging from Lean, Six Sigma, Design Thinking to Scrum.

In addition to his work with the industries, Mark contributes articles regularly on innovation and productivity to ASME Entrepreneur Digest and participated in roundtable discussions. Mark is also actively involved as guest lecturer with undergraduate engineering students in modules such as Statistical Process Control (SPC) and Project Management.

Mark holds a Master of Engineering in Electrical and Electronic Engineering from Nanyang Technological University (NTU). He started his career in 2001 with semiconductor firm, Micron, specializing in high technology high volume process optimization before branching to transactional service-related improvements with General Electric and Xerox. He had more than 15 years’ experience in operational excellence role before joining Singapore Institute of Technology.

2:20 – 2:40 pm (Wednesday, March 10)
Tan Mei Fang (Ms)
B.Eng (NUS, Singapore), MBB (MA, USA), PMP (USA), PROSCI (USA), Member of ISSSP (USA)
Six Sigma Master Black Belt
Lecturer, Lean Consultant and Coach
Singapore

Lean Applications in Healthcare

SUMMARY Mei Fang is a passionate Master Black Belt with 20 years of experience in the fields of Organizational Development, Management Consultancy and Project Management. As an experienced consultant and trainer, Mei Fang excels at understanding complex operational details, analyzing process efficiencies and driving pragmatic solutions for her clients. She spearheaded multiple Lean healthcare projects and was responsible to provide consultancy, training and facilitation for MOHH and its related clusters and operators to adopt lean design for healthcare facilities ranging from polyclinics, acute hospitals to nursing homes. Her efforts enabled transformative changes resulting in enhanced guidelines for future healthcare facilities. For a Clinical Diagnostics MNC, Mei Fang set up and led the consultancy for a new business area in providing Software-as-a-Service in the digital oncology space for the Asia Pacific region. Her clients included hospitals and clinical laboratories in the region. She was part of National University Health System overseeing the clinical operations of all public primary care clinics in the western region of Singapore. Mei Fang was invited to speak at various international Conferences, Workshops and Public Agencies to share case studies and applications of Lean and Six Sigma methodologies in Healthcare and Construction sectors.

Session III: Industry 4.0
3:00 – 4:40 pm (Wednesday, March 10) – Room 1
Session Chair: Technologist Dr. Edly Ferdin Ramly, EFR Certification, Malaysia

3:00 – 3:20 pm (Wednesday, March 10)
Dr. Edly Ferdin Ramly
Certification Director
EFR Certification
Johor Bahru, Malaysia

Presently Dr. Edly Ramly is Certification Director and Lead Auditor for various certification schemes including ISO/TS16949. Apart from auditing, he is currently Business Excellence Assessor, Exemplar Global Lead Auditor trainers for Quality (ISO9001), Environment (ISO14001) and Safety (ISO45001) management system. Dr. Ramly actively conducting research, consultation and trainings to local and multi-national companies that seek operational improvement and breakthrough. His industrial experience was in the automotive industry. During his stayed with the TRW Automotive, he was tasked with the responsibility of promoting and implementing Lean and Six-Sigma within the Organization. Due to his extensive exposure in Lean and Six-Sigma Management System, he was invited by Malaysia Productivity Corporation (MPC) and Asia Productivity Organization (APO) to conduct training in the area of Lean and Six-Sigma implementation. Dr. Ramly graduated from University of Bradford, UK with Bachelor Degree in Manufacturing System with Management. He then furthered his studies at Sheffield Hallam University, UK and awarded with a Master Degree of Science in Engineering with Management and Ph.D. from Universiti Tun Hussein Onn, Malaysia.

3:20 – 3:40 pm (Wednesday, March 10)
Mr. Mohd Zaki Tumijan
Trainer / Consultant / Auditor

Jan 2019 - Current: Associate Industrial Trainer / Lead Auditor on Quality, Environmental, Occupational Safety & Health Management System

Collaborate and extensively involved assist clients on Integrated Management System and management practices such as Corporate Social Responsibilities and had acquired hands-on experiences in collaboration with EFR Certification, UTM and NMIT in various areas and aspects of managing EOSH in electro-manufacturing, plastic molding, coating and plating, healthcare, construction, oil plantation and various industries:

3:40 – 4:00 pm (Wednesday, March 10)
Dr. Kamarizan Kidam
Lecturer
UTM Skudai, Johor Bahru, Malaysia

Dr. Kamarizan Kidam is a director for Unbox Resources and a lecturer at the Department of Chemical Engineering, Faculty of Chemical and Energy Engineering, Universiti Teknologi Malaysia (UTM) since 2004. He received his PhD from Plant Design Research Group, Aalto University School of Chemical Technology, Finland in December 2012. He started his academic career in UTM since 2001. Dr. Kamarizan is noted as an innovative, energetic, versatile lecturer, and currently active in developing a new methodology for accident prevention through design, enhancement of process safety and safer chemical plant design. He also involved in developing new methodology for inherently safer process equipment design and user-friendly system. He has published more than 20 journals and conference papers on process safety and design. Previously, Dr. Kamarizan is an occupational safety and health practitioner and a competent person as Safety and Health Officer under OSHA 1994. He has more than 7 years working experience mainly as SHE Engineer in petrochemical processing facilities and expose to latest legislation and standard. His expertise covers risk management, loss prevention and safe by design. In addition, he has experienced in development, management, implementation and administration on all matters related to occupational safety, health and environment. He has been involved in the training and consulting of OSHA and have conducted more than 30 in-house and public training programs. Currently, Dr. Kamarizan is a secretary for the Faculty's OSHE.

4:00 – 4:20 pm (Wednesday, March 10)

Mr. Hood Atan
Exergy Management Consultant
IATF Auditor for Afnor Certification, France

Mr. Hood Atan graduated from University of Technology Malaysia with Bachelor in Mechanical Engineering. He then furthered his studies at University of Technology Malaysia for Master in Engineering-Industrial Engineering and Doctor of Philosophy: Industrial Engineering and Operations Management. Hood has been actively involved in the field of Continual Improvement activities since the beginning of his tertiary education. Having worked as a Quality Engineer, Quality Manager, Quality and Environmental Management Representative for numerous years from bottom, middle and to top management, Mr Hood brings along with him a wealth of regional knowledge and experience to share. With his more than 16 years’ experience in Quality and Business management system, he has conducted various training and workshop in the area of workplace improvement, QS-9000 and 7 packs standard requirements, ISO/TS 16949 standard, variation and waste reduction, and practical problem-solving techniques including statistical tools. His industrial experience was in the automotive industry. During his stayed with the TRW Automotive and previous company, he was tasked with the responsibility of promoting and implementing VDA 6.3, QS-9000, IATF 16949, ISO14001 ISO 13485, EN16001, ISO 50001, OHSAS 18001 & ISO 45001 management system and Lean & Six Sigma within the Organization. Besides, he also responsible for supplier audit either local or oversea such as Vietnam, Thailand, Singapore, Indonesia, China and India. Presently Mr. Hood Atan is a full time trainer, auditor and management consultant in the fields of Quality, Health & Safety, Energy and Environmental Management system.

4:20 – 4:40 pm (Wednesday, March 10)

Prasanna Balasubramanian
Program Management
Largest Bigdata Consulting Organization in ASIA
Singapore

Prasanna carries close to 17 years of work experience and played a multifaceted role in the areas of Innovation, Digital Transformation, Robotics process automation, Process Re-engineering, Program Management, Key account management, Quality & Consulting, at the leadership level with Country-level management responsibilities. He has worked for multiple industries like Automobile, Banking, IT, Services, Global financial shared service centers with a proven track record of cross-pollinating the best practices across industries and quick learner in understanding the nuances and success factor in a shorter span of time. He has worked on the direct roles of Philips, Accenture, Infosys, Renault Nissan, and UBS, to name the few Global fortune 500 companies and for their clients managing the stakeholders across the geographies of APAC, US & Europe.

4:40 – 5:00 pm (Wednesday, March 10)

Kamil Mizgier
Group Manager
Model Development in the area of Enterprise Risk Analytics
BNY Mellon Poland
Zürich, Switzerland

The Journey to Economic Supply Chain Risk Capital

Kamil Mizgier works as Group Manager, Model Development in the area of Enterprise Risk Analytics at BNY Mellon, where he spearheads the development of risk models for informed decision making. Previously he was a Senior Quantitative Analyst at Credit Suisse, where he led a risk methodology development team. Until 2016, he was a Senior Researcher in Supply Chain Management at ETH Zürich, where he worked on research projects with firms like SAS Institute and Zurich Insurance. Prior to this role, he gained professional experience as a risk modeling and analytics specialist at UBS and business analyst at Aduno Group. He published more than 20 peer reviewed and practitioner articles on supply chain and operational risk management, supply chain networks and economic risk capital. He obtained a MSc degree in Applied Physics from the Warsaw University of Technology and a PhD in Supply Chain Management from the Department of Management, Technology and Economics at ETH Zurich.
Session IV: Industry 4.0 Panel
"Quality 4.0 Practices, Challenges, and Opportunities in Industrial Enterprises"
5:00 am – 6:45 pm (Wednesday, March 10) - Room 1

Panel Chair

Ts. Dr. Mehran Doulat
Associate Professor
MBA Review Committee/Coordinator
Xiamen University Malaysia (XMUM)
Director of Centre for Operational Excellence Research (COER)
Editorial Advisory Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Dr. Mehran Doulat is an Associate Professor of Operations and Quality Management and MBA program Review Committee/Coordinator. He holds a Bachelor of Science in Engineering; double Master’s Degrees in Engineering Management (MEM) and Quality Management (MOM) and a PhD from University of Wollongong, Australia. Dr. Doulat has completed 2 years Post-Doctoral Fellowship in the area of Innovation and Performance Excellence. Dr Doulat spent more than 15 years in industries, holding various executive and managerial roles in QA/QC, performance measurement, business excellence and benchmarking. He is a certified EFQM Excellence Assessor and a ‘TRADE’ Certification Best Practice Benchmarking from Global Benchmarking Network (GBN). He served as a Senior Assessor for the Dubai Quality Award (DQA) program since 2007. He has also been actively involved in a number of academic–industrial projects and research in United States, Canada, Australia, New Zealand, United Kingdom, Japan, Singapore, Malaysia, India, and UAE. Dr. Doulat has been working as a visiting professor and Associate Researcher at University of Wollongong, Australia, National University of Singapore, Meiji University, Japan, Universiti Teknologi Malaysia, Massey University, New Zealand and Xiamen University, China.

Panel Speaker I

Dr. Nigel Grigg
Professor of Quality Systems
Head of Department of Operations and Engineering Innovation (OEI)
School of Engineering and Advanced Technology
Massey University, Palmerston North, New Zealand
Associate Editors of Journal of Total Quality Management & Business Excellence, Taylor & Francis Publishing

Dr. Nigel is the Professor of Quality Systems, and leads the Department of Operations and Engineering Innovation (OEI) within the School of Engineering and Advanced Technology at Massey University, Palmerston North, New Zealand. Dr. Nigel undertakes teaching, research and consultancy across the disciplines of industrial design and innovation, operations management, supply chain management, quality systems, and information technology applications to operations. Dr. Nigel's particular specialism is quality systems, including business process improvement, statistical quality control, six sigma, lean, Business Excellence, service quality, research methods and structural equation modelling. He applies mathematical and statistical methods within operations management, particularly to the management and control of product, service quality and supply chain systems. His recent research projects include developing a performance measurement framework for national health care, applying lean thinking within a horticulture setting, and examining the role of national culture as a mediating influence on 'standardised' management and improvement frameworks such as ISO 9001, Six Sigma, and lean. Dr Nigel served as Associate Editor of Journal of Total Quality Management & Business Excellence, Taylor & Francis Publishing since 2014.

Panel Speaker II

Dr. Matthew Pepper
Senior Lecturer
School of Management, Operations and Marketing
University of Wollongong (UOW), New South Wales, Australia.
Editorial Advisory Boards for the International Journal of Lean Six Sigma, the Journal of Manufacturing Technology Management. and International Journal of Information and Operations Management Education

Dr. Matthew pepper is currently a Senior Lecturer within the School of Business, Faculty of Business and Law, at the University of Wollongong Australia. Matt sits on the editorial advisory boards of a number of academic journals, including the Journal of Manufacturing Technology Management. International Journal of Lean Six Sigma and the International Journal of Information and Operations Management Education. Within the faculty of Business and Law, his teaching responsibilities include supply chain management and strategy at both undergraduate and postgraduate levels. Matt’s core research interests lie in the application of systems thinking to supply chain disruption, performance management and continuous improvement in the public sector. Most recently, his work has focused on engaging with public sector organizations to develop appropriate performance measurement and management strategies. Matt has currently supervises a number of industry based candidates in these areas of interest and has been an external examiner for a number of PhD theses.
Dr. Azmawani Abd Rahman
Professor School of Business and Economics
Universiti Putra Malaysia (UPM)
President of Research and Education at the Malaysia Franchise Association (MFA)
Former Director of Corporate Strategy and Communication Office UPM
Former Deputy Director of Research Management Centre UPM

Dr. Azmawani Abd Rahman is a Professor at the School of Business and Economics Universiti Putra Malaysia (UPM). She holds a Bachelor of Science in Finance from the University of South Alabama (United States) and a Ph.D. in Operations and Technology Management from Aston University, United Kingdom. Previously, she served as Director of Corporate Strategy and Communication Office UPM, where she was responsible for various university main functions such as public and media relation, university rankings and ratings, and university strategic directions and key performances. Prior to that, she was a Deputy Director at UPM Research Management Centre, Head of Department and Deputy Dean at the Faculty of Economics and Management, UPM. Azmawani actively collaborates with the industry through her involvement as an advisor, assessor, consultant, and trainer. She is currently a president for the Research and Education committee at the Malaysia Franchise Association (MFA). She has made more than 50 appearances in the mainstream media (newspaper, television, radio) through her writing and comments. She published in more than 150 articles in Scopus and ISI cited journals and books. Azmawani was appointed as an official case writer for Malaysia Productivity Corporation Business Excellence Award and Chief Minister Industry Excellence Award.

Panel Speaker IV

Dr. Mat Naim Abdullah
Associate Professor
Faculty of Built Environment and Surveying
Deputy Director, UTM Centre for Quality and Risk Management
Universiti Teknologi Malaysia (UTM)

Dr Naim’s holds a BSc. in Quantity Surveying from University of Glasgow Caledonian, United Kingdom. He has a Master of Engineering in Construction and PhD in Facilities Management, both from Universiti Teknologi Malaysia. His specialisation is in the area of Project Management, Facilities Management and Quality Management System. He is also a certified trainer for Safety Course and a Certified Quality Auditor. Prior to joining Universiti Teknologi Malaysia he was with the construction industry for 20 years working in various fields and positions such as quantity surveyor for consulting firm and contract manager for local and international construction companies. He had also served as a Manager at the Construction Industry Development Board Malaysia. He also had his own business in safety and quality in construction between 2001 to 2005. In 2006 he joined Universiti Teknologi Malaysia and currently an Associate Professor at the Department of Real Estate, Faculty of Built Environment and Surveying. He is also seconded as a Deputy Director at the UTM Centre for Quality and Risk Management.

Session V: Industry Solutions
7:00 pm – 8:45 pm (Wednesday, March 10) - Room 1

Session Chair: Dr. Saso Krstovski, Ford Motor Company, Michigan, USA

7:00 – 7:20 pm (Wednesday, March 10) - Room 1
Steven Sibrel
Senior Supplier Quality Manager
Harman International, Novi, Michigan, USA
Professional Development Chair and Past Chair – ASQ Greater Detroit

Steven Sibrel is a business process improvement trainer, coach and auditor with over 35 years of experience in the business and manufacturing world. He is currently working as Senior Supplier Quality Manager at Harman International, a manufacturer of audio and infotainment systems for consumer, professional, and automotive industries, with well-known brands such as JBL, Lexicon, Crown, Infinity, Mark Levinson, Becker and Harman-Kardon. Previously he held a number of engineering and management positions in diverse industries at Applied Materials (Semiconductor), NEC (Telecommunications) and Texas Instruments (Military). He has conducted over 200 supplier audits in North America, Europe, and Asia and is a Lead Auditor for ISO/TS16949, ISO9001, ISO13485, ISO17025, and 21CFR820. He has been the Chair for Professional Development for the ASQ Detroit section since 2008. He received the Distinguished Service Award in 2008 and the Leadership Award in 2013 from ASQ. Current ASQ Certifications held are Six Sigma Black Belt, Quality Engineer, Quality Inspector, Quality Auditor, and Manager of Quality/ Organizational Excellence. He is an adjunct faculty member at Macomb Community College. Steve has a BSEE degree from Rose Hulman Institute of Technology and an MSE degree from Southern Methodist University.

7:20 – 7:40 pm (Wednesday, March 10) - Room 1
Obaidul Gani, MSIE, P.E, CSSBB, CLE
Director of Operations & Manufacturing
Lacerta Therapeutics
Gainesville, Florida, United States

Title: Challenges & Opportunities for Business Transformation within BioTech & BioPharma Industries

Obaidul Gani (goes by “Gani”)- is the founder & CEO of CIBEX (Continuous Improvement for Business Excellence), which is a Business Excellence, and Operations & Supply Chain Management Consulting firm that also offers Executive & Leadership development Training to drive people, process, technology and organizational Business Transformation. He is also a Fellow at IndustryX based out of Wayne State University in Detroit, MI, USA. Gani's
focus is in the Healthcare Industry, which includes Biomedical, Biotech/ Biopharma and Clinical organizations as well as Startup companies. He brings nearly 20+ years of industry experience prior to CIBEx- four years in the US Automotive industry (in Detroit, MI area), and fifteen years in the FDA-Regulated HealthCare industry. His areas of interest include application of Operational Excellence in therapy and drug development, manufacturing process development, technology transfer for clinical applications, therapy commercialization and End2End Supply Chain integration in the Biotech, Biopharma and other HealthCare industries.

7:40 – 8:00 pm (Wednesday, March 10) - Room 1

**Ts. Dr. Mehran Doulat**  
Associate Professor  
MBA Review Committee/Coordinator  
Xiamen University Malaysia (XMUM)  
Director of Centre for Operational Excellence Research (COER)  
Editorial Advisory Board for the International Journal of Industrial Engineering and Operations Management (IJEOM)

**Title:** Sustainable Supply Chain Management (SSCM) Practices: Insights from Malaysian Non-Manufacturing Industries

Dr. Mehran Doulat is an Associate Professor of Operations and Quality Management and MBA program Review Committee/Coordinator. He holds a Bachelor of Science in Engineering; double Master’s Degrees in Engineering Management (MEM) and Quality Management (MQM) and a PhD from University of Wollongong, Australia. Dr. Doulat has completed 2 years Post-Doctoral Fellowship in the area of Innovation and Performance Excellence. Dr Doulat spent more than 15 years in industries, holding various executive and managerial roles in QA/QC, performance measurement, business excellence and benchmarking. He is a certified EFQM Excellence Assessor and a “TRADE” Certification Best Practice Benchmarking from Global Benchmarking Network (GBN). He served as a Senior Assessor for the Dubai Quality Award (DQA) program since 2007. He has also been actively involved in a number of academic–industrial projects and research in United States, Canada, Australia, New Zealand, United Kingdom, Japan, Singapore, Malaysia, India, and UAE. Dr. Doulat has been working as a visiting professor and Associate Researcher at University of Wollongong, Australia, National University of Singapore, Meiji University, Japan, Universiti Teknologi Malaysia, Massey University, New Zealand and Xiamen University, China.

8:00 – 8:20 pm (Wednesday, March 10) - Room 1

**Eng. Kenn Wong, BEE, PgDip, MBA**  
Regional Sales Manager, Asia Pacific Region  
ESW Vision GmbH, Malaysia

Mr. Kenn Wong is currently attached to ESW Vision GmbH a French medical device company producing dry eye management devices as the area sales manager for Asia Pacific region. Mr. Wong started his carrier as a service engineer in the analytical chemistry industry and then moving into the healthcare industry dealing with sleep medicine and surgical devices as an application specialist and product trainer. As part of career advancement, Mr. Wong was offered a marketing and commercial role with an optical company covering the Malaysian market. Later, he moved up the corporate ladder covering the commercial activities regionally. Mr. Wong holds a Bachelor degree in Electrical Engineering (BEE) from the University of Herdfordshire, UK, and a Postgraduate Diploma (PgDip) in Biomedical Engineering from Keele University located in Staffordshire, UK. He is currently conducting a research on Sustainable Supply Chain Management (SSCM) amongst Malaysian Non-Manufacturing Industries as part of his MBA research project.

8:20 – 8:40 pm (Wednesday, March 10) - Room 1

**Atif Baig, MBA**  
Research Associate  
The Centre for Organisational Excellence Research (COER)  
Massey University  
Palmerston North, New Zealand

**Title:** An exploration of the organisational excellence architecture required to support an award-winning business excellence journey

Mr. Atif Baig is a Research Associate at the Centre for Organisational Excellence Research (COER), Massey University, New Zealand. Before joining Massey University, Atif worked for the banking industry for over 15 years with leading financial institutions including Citigroup and Barclays Bank PLC, where he was involved in different organisational performance improvement initiatives. With his industry experience and learnings, Atif is keen to help organisations to improve their business productivity and achieve sustainable value for their shareholders. Atif holds a postgraduate (MBA) degree from the University of Warwick, UK. He is currently doing his PhD and investigating Business Excellence (BE) models from an implementation viewpoint.

8:40 – 9:00 pm (Wednesday, March 10) - Room 1
Dr. Saso Krstovski, MBB
Lean Manufacturing Coach / Six Sigma Master Black Belt
Van Dyke Transmission Plant
Ford Motor Company, Michigan, USA

Dr. Saso Krstovski works for Ford Motor Company – Van Dyke Transmission Plant as a Lean Manufacturing Coach and Six-Sigma Master Black Belt. With over twenty years of service with Ford Motor Company, Dr. Krstovski has held a multitude of engineering assignments, which includes time working as a Test Engineer, Launch Test Engineer, and Electrical Control Engineer. During his time with Ford Motor Company, Dr. Krstovski has worked in several plant environments and skill teams such as Dearborn Tool & Die Plant, Information Technology, and has held front-line supervision roles managing hourly UAW-Ford production employees. This exposure to new work concepts within Ford has allowed Dr. Krstovski to amass a holistic approach to engineering. As such, Dr. Krstovski has gained an extensive understanding of the Six-Sigma methodologies. As a detail oriented and data-driven engineer, Dr. Krstovski is an invaluable contributor to Ford Motor Company. He is highly distinguished and skilled with problem identification and resolution to avoid time and cost expenditures. Dr. Krstovski recently joined Lawrence Technological University as an Adjunct Professor and is currently teaching in the Engineering Department. Dr. Krstovski’s research interests lie in the area of System Optimization. He continues to collaborate actively with researchers at several universities. Dr. Krstovski provides guidance globally to doctoral candidates on dissertation direction. He graduated from Lawrence Technological University with a Doctorate of Engineering in Manufacturing Systems (DEMS). In addition, to his doctorate degree, Dr. Krstovski has a Masters in Electrical Computer Controlled Systems and a Bachelor’s of Science in Electrical Engineering from Wayne State University. Dr. Krstovski has authored several publications and scientific articles on various engineering topics.

Diversity and Inclusion Panel sponsored by Ford Motor Company
9:00 - 10:30 pm (Wednesday, March 10) - Room 1

Panel Chair:

Professor Cecilia Nembou
President and Vice-Chancellor (Retired)
Divine Word University
Papua New Guinea

Professor Cecilia Nembou was the President and Vice Chancellor of the Divine Word University (DWU) in Papua New Guinea, and Professor of Higher Education Leadership and Management. She is based in Port Moresby and supervises the leadership and management functions of the DWU Port Moresby campus as well as the rest of DWU system across 5 campuses. She holds a BSc in Mathematics from the University of Papua Guinea (1975), MSc in Operational Research from the University of Sussex (UK, 1978) and PhD in Operations Research from the University of New South Wales (Sydney, Australia, 1992). She has held various academic and senior management positions at the University of PNG, University of Wollongong in Dubai and at the Divine Word University over a period spanning 40 years. Professor Nembou’s research interests include, systems thinking, strategic planning, leadership and management, and analytics in higher education.

Professor Nembou is a regular member of INFORMS and member of the IEOM Technical Committee. She has served on various committees and Councils of Universities as well as on Boards of State Statutory organizations, and Boards of commercial and non-government organizations in Papua New Guinea. She is a former Head of Mathematics Department, Executive Dean of the School of Natural and Physical Sciences, Pro Vice Chancellor Planning and Development and Acting Vice Chancellor at the University of Papua New Guinea; Academic Registrar and Senior Lecturer at the University of Wollongong in Dubai, and Deputy President of the Divine Word University. She commenced her new role as President and Vice Chancellor of DWU on 20 January 2016.

Panel Speaker I

Dr. NG Szu Hui
Associate Professor and Acting Head
Department of Industrial Systems Engineering and Management
National University of Singapore
Singapore

Szu-Hui Ng received the PhD degree from the Department of Industrial and Operations Engineering at the University Michigan. She is currently an associate professor and acting head in the Department of Industrial and Systems Engineering at the National University of Singapore. Her research interests include quality engineering, design of experiments, and simulation. She has published a number of papers in these areas.

Panel Speaker II

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37
Dr. Hannelie Nel
Senior Lecturer, Postgraduate School of Engineering Management
Faculty of Engineering and the Built Environment
University of Johannesburg
South Africa

Dr. Hannelie Nel is an Academic in the Postgraduate School of Engineering Management at the University of Johannesburg. She holds a Doctorate in Engineering Management, a Master of Science Degree in Industrial Engineering and a Bachelor’s Degree in chemical Engineering. She has twenty years’ experience in both industry and academia and her work entails business and education strategy development; the design, implementation and costing of business and quality management systems; training and education; business research systems; process improvement; and gender advancement in engineering.

Panel Speaker III

Dr. Ho Hwi Chie, M.Sc.
Dean, Binus Aso School of Engineering (BASE)
Bina Nusantara University (Binus)
Binus Aso School of Engineering
BASE Campus, Jl. Alam Sutera Boulevard No. 1
Tangerang, Banten 15325, Indonesia

Hwi Chie Ho is Dean of Binus School of Engineering and Professor in Industrial Engineering at Bina Nusantara University, and has been teaching and publishing researches associated with ergonomics, quality, and industrial psychology. She is a member of the Institute of Industrial and Systems Engineers (IISE), Human Factors and Ergonomics Society (HFES), and American Psychology Association (APA). She has also served as the faculty advisor of the newly established IISE BINUS University Student Chapter # 716 that has earned Gold Award in three consecutive years since the establishment.

Panel Speaker IV

Jihong Yan, Ph.D.
Professor in Industrial Engineering
Deputy Dean of School of Mechatronics Engineering
Head of Intelligent Manufacturing Scientific Research Team
Harbin Institute of Technology
Harbin, China

Jihong Yan is a Professor (since 2005) in Industrial Engineering at Harbin Institute of Technology (HIT), she is also the deputy dean of School of Mechatronics Engineering and head of intelligent manufacturing scientific research team at HIT. She received her PhD from Harbin Institute of Technology. Then she joined Tsinghua University, the University of Wisconsin, and Pennsylvania State University as a postdoctoral researcher. Dr. Yan is the director of National High-end Equipment Manufacturing Virtual and Simulation Experiment Teaching Center, head of Research Oriented Teaching Innovation Team for High-end Equipment Manufacturing of the Ministry of Industry and Information Technology of China, vice chairman of Production System Special Committee of Chinese Mechanical Engineering Society, and chairman of Industrial Engineering Professional Committee of the Mechanical Engineering Society of Heilongjiang Province. Her main area of research is industrial big data, sustainable manufacturing, intelligent logistics and advanced maintenance of machinery. As a PI, Dr. Yan has worked on and accomplished 15 projects in intelligent manufacturing and sustainability related areas, funded by the NSF of China(NSFC), NSF-NSFC joint-project funding, National key R&D plan project funding, National High-tech project funding, National “863” project funding, EU EPSRC project funding, High-tech funding from industries, and so on. She has authored and co-authored over 100 research papers and published 3 books, two papers were ranked ESI high cited articles. Currently there are 17 professors and engineers with her research team, the team dedicates to theoretical research and system implementation in the fields of intelligent operation optimization theory and methods of manufacturing systems, manufacturing IoT technologies and devices, and equipment health monitoring, etc.

Panel Speaker V

Hajj Flemings
CEO/Founder
Rebrand Cities
Birmingham, Michigan, United States

Hajj Flemings was one of eight entrepreneurs selected for CNN’s Black in America 4: The New Promised Land: Silicon Valley documentary with Soledad O’Brien. During the documentary, he began to understand the real meaning of the term ‘meritocracy.’ He recognized that lack of access in the technology space created a permanent underclass in communities of color. That experience changed the course of his life. Hajj is the founder of Brand Camp® University, an educational platform preparing people for the future of work. In 2017 he launched Rebrand Cities, a global civic design initiative with the audacious goal of getting 10,000 businesses online and eradicating the digital divide. He has worked with clients including Cadillac, Walt Disney, AT&T, Wordpress.com, Pitney Bowes, the Detroit Lions, and the U.S. Department of Defense. He has had the privilege of being an invited speaker at Harvard University, Iowa State University, University of Michigan—Ross School of Business, Davidson College, among others; as well as being featured in the Wall Street Journal, TechCrunch, Mashable, and CNN Tech Money on the subjects of startups, digital technology, and branding. Hajj Flemings earned a Bachelor of Science degree in Mechanical Engineering from Michigan Technological University and a Master’s degree in Business Administration from Lawrence Technological University. In his free time, Hajj enjoys training for his next half marathon, as well as spending time with his wife and daughter in the Detroit metro area.
Professor Donald M. Reimer
Director of Membership and Chapter Development – IEOM Society
President, The Small Business Strategy Group, Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering
Lawrence Technological University, Southfield, Michigan, USA

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs’ Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs’ Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.
Friday (March 12, 2021)

Session Chair: Dr. Surya Prakash, BML Munjal University, Gurgaon, Haryana, India

8:00 – 8:20 am (Thursday, March 11) – Room 1

Dr. Le Thi Huynh Anh
Faculty of Project Management
The University of Danang, University of Science and Technology
Vietnam

Le Thi Huynh Anh is a lecturer of Undergraduate Program in Division of Industrial Management in Faculty of Project Management at The University of Danang, University of Science and Technology (DUT), Vietnam. Ms. Anh received her B.S in Industrial Engineering and Management at The University of Danang, University of Science and Technology and Master in Industrial Management at Nation Taiwan University of Science and Technology (NTUST), Taiwan. She has taught courses in Supply Chain Management, Industrial Maintenance Management and Operations Research for engineers. She has experiences in studying and working on industrial projects such as Sustainable Supply Chain for Unilever Limited Company and Quality Assurance for NutiFood Nutrition Food Joint Stock Company and Ha Giang Phuoc Tuong Mechanical Company in Vietnam. She has received the best student award when she was in undergraduate program. Her research interests include Optimization, Supply Chain Management, Logistics, Innovation, Scheduling, Renewable Energy, and Manufacturing.
8:40 – 9:00 am (Thursday, March 11)

Dr. Vincent F. Yu  
Department of Industrial Management  
National Taiwan University of Science and Technology  
Taipei 10607, Taiwan

Vincent F. Yu received his Ph.D. degree in industrial and operations engineering from the University of Michigan, Ann Arbor. He is currently a Professor and the Chair of Industrial Management with the National Taiwan University Science and Technology. He has published articles in Applied Mathematical Modelling, Applied Soft Computing, Computers and Industrial Engineering, Computers and Operations Research, European Journal of Operational Research, Industrial Marketing Management, International Journal of Production Research, Journal of Cleaner Production, Journal of Intelligent Manufacturing, and Omega. His current research interests include operations research, logistics management, soft computing, and artificial intelligence.

9:00 – 9:15 am (Thursday, March 11)

Dr. Hsiu-I Ting  
Department of Information and Finance Management  
National Taipei University of Technology  
Taipei 10608, Taiwan


9:15 – 9:30 am (Thursday, March 11)

Dr. Surya Prakash  
Ph.D. (Supply Chain Design)  
School of Engineering and Technology  
BML Munjal University (A HERO group initiative)  
Gurgaon, Haryana, India

Dr. Surya Prakash is Ph.D. (Supply Chain Design) from Malaviya National Institute of Technology, Jaipur, India. Dr. Prakash did Master of Engineering in Manufacturing Systems Engineering from Birla Institute of Technology and Science, Pilani (BITS-Pilani) (India), a top-rated technical university of India. Presently, Dr. Prakash is Assistant Professor, School of Engineering and Technology, Mechanical Engineering Department, BML Munjal University (started by the Hero Group India), Gurgaon, India. Dr. Prakash has rich experience of teaching, research and industry as he also worked for Bharat Forge Ltd. and JBM India. Dr. Surya is prolific researchers with 20+ quality research articles, 5+ Book Chapters, 10+ Conference papers and co-inventor in many technology patents in Industry 4.0 and Oil and Gas sector. He is handling consultancy projects and training program for industries in QMS and Oil and Gas domain. He has won many awards for his quality research and teaching including two times in BML Munjal University for best faculty for teaching and research. His areas of research interest are supply chain management, risk management, Industry 4.0, logistics, artificial intelligence in operations management, sustainability in operations management. He has special interest in robotic tool development for oil and gas pipelines. He has published a number of research articles in reputed international journals such as Annals of Operations Research, European Journal of Operation Research, Supply Chain Management: An International Journal, Journal of Cleaner Production, Journal of Enterprise Information Management, Benchmarking, International Journal of Advanced Operations Management, etc. He is on Editorial Advisory Board for QOR Newsletter.

Session II: Global Supply Chain and Logistics Education  
Session Chair: Prof. Shekar Babu, AMRITA University, Bangalore, India

1:00 – 2:40 pm (Thursday, March 11) – Room 1

1:00 – 1:20 pm (Thursday, March 11)

Aalok Kumar, Ph.D.  
Assistant Professor  
Indian Institute of Management Visakhapatnam  
Andhra Pradesh, India

Aalok Kumar is currently working as Assistant Professor, Production and Operations Management area, IIM Visakhapatnam, Andhra Pradesh, India. He has been awarded PhD in Operations Management from Department of Management Studies, Indian Institute of Technology (IIT) Roorkee, India and MTech. in Industrial Management from IIT(BHU) Varanasi with Gold Medal. His PhD work also received the “Excellence in Doctoral Research Award” from IIT Roorkee. During his PhD, he has been also awarded with prestigious Newton-Bhabha fellowship (jointly awarded by British Council UK and DST India) at the University of Sussex, UK, and Queen Elizabeth Visiting Fellowship at the University of Regina, Canada (awarded by Government of Canada). His research interests are in multimodal logistics planning, data-driven logistics operations in Industry 4.0 era, electric vehicles-based freight mobility, and resilient logistics system. His research work has appeared in top journals of Operations and Management Science, such as Transportation Research Part A: Policy and Practice, Transport Policy, Journal of Cleaner Production, and Journal of Enterprise Information Management, among others. He has also participated in EURO Winter School at the University of Padova, Italy, and presented paper in various conferences such as POMS USA, EURO Europe, DSI USA, SOM India, GLOGIFT India, and IEOM Society USA.
Rajendra Baraiya
Research Scholar in Operations Management
Indian Institute of Management, Indore
Indore, Madhya Pradesh, India

Title: Retailer Strategies amid COVID19 pandemic with Hygiene Quality Enhancement Efforts

Rajendra Baraiya is a research scholar in the Operations Management and Quantitative Techniques department at the Indian Institute of Management (IIM) Indore, India. He has been awarded M.E. in Production Engineering from Thapar Institute of Engineering and Technology, Patiala, India, and B.E. in Production Engineering from Government Engineering College, Bhavnagar, India. His research interests are Supply Chain Management, Supply Chain Coordination, Omni-Channel Retailing, Inventory Management, and Logistics. His research papers are published in reputed journals, and he has presented his research work at various National and International conferences. He has received the best paper awards in DC 2019 - MNIT Jaipur, ICORDS 2019 - IIM Visakhapatnam, and DOCMAD 2020 - IRMA Anand. He is professionally affiliated with many societies like IEOM, POMS, DSI, The OR Society, EuROMA, ASCM, IEEE, and WCTRS.

1:40 – 2:00 pm (Thursday, March 11)

Dr. Muhammad Khan
Lecturer in Management Sciences, Timergara Campus
Abdul Wali Khan University
Mardan, KPK, Pakistan

Dr. Muhammad Khan received the M.S. degree in international business from American College Dublin, Ireland, and the Ph.D. degree in international business from Yeungnam University, South Korea, in August 2019. He is currently working as a Lecturer of marketing with the Department of Management Sciences, Abdul Wali Khan University Mardan, Pakistan. He is also a Ph.D. Supervisor nominated by the Higher Education Commission (HEC) of Pakistan. He has coauthored over 28 research articles, in leading international journals, including IEEE Access, Sustainability, Journal of Humanitarian Logistics and Supply Chain Management, and the International Journal of Supply Chain Management. His research interests include humanitarian logistics, humanitarian supply chain, and supply chain and logistics. He is on editorial and reviewer boards in different journals of supply chain and business administration.

2:00 – 2:20 pm (Thursday, March 11)

Dr. Shams Rahman
Professor of Operations and Supply Chain Management
School of Business IT and Logistics
Deputy Head of School, Research and Innovation.
RMIT University, Melbourne, Victoria, Australia

Dr. Shams Rahman is a Professor of Operations and Supply Chain Management at the School of Business IT and Logistics, RMIT University. He is also the Deputy Head of School, Research and Innovation. Professor Rahman, a former British Commonwealth scholar, has worked with several universities in Australia, United Kingdom, and Thailand. In Australia he worked for the University of Western Australia, The University of Sydney, prior to joining RMIT University. He also held visiting fellowship at the Virginia Tech, US and University of Exeter, UK and currently, an International research scholar to Shanghai University of International Business and Economics, Shanghai, China. Professor Rahman is an expert in the in the field of operations and supply chain logistics and he is frequently called upon to make presentations for various professional bodies and senior executives on issues such as supply chain sustainability, talent management in logistics, lean six-sigma and quality management, reverse logistics, and theory of constraints.

Professor Rahman is on the editorial board of fourteen international journals. He is an Associate Editor of the International Journal of Information Systems and Supply Chain Management, a Regional Editor of the International Journal of Logistics and Supply Chain Management Systems, and a Member of the Editorial Advisory Board of the Advances in Information Systems and Supply Chain Management (Book Series). He is also the foundation member of the International Advisory Committee of the Asia-Pacific Federation of Logistics & Supply Chain Systems. Professor Shams Rahman has published over 175 research papers which include articles in international journals, book chapters, and referred papers in international conference proceedings and currently, writing a case book on Reverse Supply Chain. He has successfully supervised 10 PhD theses in the field of operations, quality and supply chain management and currently supervising 9 PhD students.

2:00 – 2:40 pm (Thursday, March 11)

Prof. Shekar Babu
Founding Head, AMRITA School of Business, Bangalore
Adjunct Faculty, SUNY, Buffalo, USA
Research & Consulting
AMRITA University
Bangalore, India

Dr. Shekar Babu is the Founding Head, Department of Management, Bangalore Campus, AMRITA Vishwa Vidyapeetham University. Dr. Shekar Babu holds a Bachelor of Engineering degree in Electronics and Communications from Bangalore University and a Master of Science degree in Electrical and Computer Science from California State University, Los Angeles and a Doctoral Degree in Strategic Management from Amrita University. He is a Management Consultant with over 25 years of experience in working with Price Waterhouse and Hewlett-Packard Co. His research areas are Corporate Social Responsibility (CSR), Corporate Governance (CG), Strategy and Social Development. He has taught courses in Marketing, Leadership, Management Consulting and Business Ethics.
Sagit Kedem-Yemini, Ph.D.
Lecturer, Logistics Department
Industrial Engineering and Management
Sapir Academic College
Israel

Sagit Kedem-Yemini is an Industrial Engineer, proficient in information systems and currently holding two lecturing positions: a tenured lecturer position at Sapir Academic College (Logistics Department) and an adjunct lecturer at Ben Gurion University (both in IE&M and Faculty of Business and Management). Her teaching portfolio is broad, focusing on Enterprise Systems implementation (SAP and Oracle Applications) and derivatives of ERP data collection – from Business Analytics to Process Mining. Additionally, she has extensive experience in academic curriculum development, is head of her department’s teaching committee and serves as liaison officer to the graduation projects unit. Her research interests include Process Mining and its practical applications, ERP relates issues and DSS development. Since 2015 serves as member of JITCAR Editorial Review Board and since 2019 serves as GJCIE International Scientific Committee Member. Prior to her academic career, Dr. Kedem-Yemini worked at a global Clean-Room Fab Build-Up Construction Management Company with major clients (such as Intel, Tower Semiconductors, and Teva Pharmaceuticals), where she held various positions, including Logistics Manager, Scheduling Manager and CIO (Chief Information Officer).

Ms. Marwa Abdel Tawab Mahmoud
Tourism Studies Department
Faculty of Tourism & Hotels
Fayoum University
Faiyum, Egypt

Entrepreneurship and Tourism: A Case Study of Egypt

Marwa Abdeltawab Mahomud (Marwa Elomda) currently works as lecture at the department of tourism studies, faculty of tourism and hotel, Fayoum University. She earned BA in tourism studies from faculty of tourism and hotels, Fayoum University, 2012. Master in 2016 at thesis topic "The role of the impact of Arab tourism investment on the volume of inter-Arab tourism to Egypt," PhD in 2019 at thesis topic: "The role of entrepreneurship in the development of Egyptian tourism: studying factors and challenges" from Faculty of Tourism and Hotels, Fayoum University.

Marwa has won several awards including the Fayoum university award for the best PhD in the literary sector on the Thirteenth Science Day 2020, in addition, obtaining the Fayoum University Award for excellence in scientific publishing in the Thirteenth Science Day 2020.

Marwa is coordinator of the violence against women unit at the faculty of tourism and hotels, Fayoum university, since the 2019 academic year, member of the team of preparing and writing competitive projects in the faculty of tourism and hotels, Fayoum university, chairman of the committee for supporting activities at the agency for community service and environmental development, faculty of tourism and hotels, Fayoum university, member of the tourism awareness team at the agency for community service and environmental development, faculty of tourism and hotels, Fayoum university, and deputy administrator of graduate affairs unit from 2019-2020 at the agency for community service and environmental development, faculty of tourism and hotels, Fayoum university

She has successfully participated in several conferences; Participation in organizing the 9th International Conference on Tourism and Hospitality, Marsa Alam, Faculty of Tourism and Hotels - Fayoum University, in cooperation with the Italian University of Salento, 2016; Participation in organizing a professional academic dialogue forum for higher tourism education in light of quality assurance and accreditation standards, Faculty of Tourism and Hotels, Fayoum University, December 2017; in addition, Participation in organizing the 10th International Conference on Tourism and Hospitality, Sharm El Sheikh, Faculty of Tourism and Hotels - Fayoum University, in cooperation with Bournemouth University - United Kingdom, University of Salento - Italy, February 2017; Participation in organizing the eleventh international conference for tourism and hospitality, Luxor, Faculty of Tourism and Hotels - Fayoum University, in cooperation with Bournemouth University - United Kingdom, University of Salento - Italy, February 2018 and Participation in a workshop entitled (Entrepreneurship and Tourism Education: Evidence from Egypt). Moreover, Participating in preparing and organizing the community service forum activities for tourism and hotels colleges (Together for a Better Society) and the Training and Employment Forum held at the Mercier Sphinx Hotel (Haram) 27-4-2019, and Participation in organizing the Twelfth International Conference on Tourism and Hospitality, Fayoum, Faculty of Tourism and Hotels - Fayoum University, in cooperation with Bournemouth University - United Kingdom, University of Salento - Italy, February 2020.

She attended a workshop for training on the SCIVAL program presented by the digital libraries unit of the supreme council of universities, June 2019, women-up conference entitled "boosting the untapped potential of entrepreneurship in Egypt via women empowerment"20-3-2019, a course on designing questionnaires by (google forms) organized by the agency for high studies at the faculty of tourism and hotels, Fayoum university - July 2020, SPSS statistical analysis course organized by the agency for high studies at the faculty of tourism and hotels, Fayoum university - July 2020, course of external audit protocols organized by the quality assurance unit for faculty members and the faculty assisting body September 20, 2020, strategic planning course organized, the self-assessment course, the course description of programs and courses by the quality assurance unit for faculty members and the faculty assisting body in coordination with the national authority for quality assurance and accreditation (naqaae)

Her research interests are in Tourism Entrepreneurship, Business Management, Feasibility studies and financing, Management of small and medium enterprises, Tourism investment, Human Resource Development, and Accounting in the tourism and hotel industry.
Professor Paul Jones

Paul Jones is Professor of Entrepreneurship and Innovation at the School of Management, Swansea University. Professor Jones is Editor-in-Chief on the International Journal of Entrepreneurial Behaviour and Research journal ranked and as an Associate Editor on the International Journal of Management Education. He is also series editor of the Contemporary Issues in Entrepreneurship Research book series published by Emerald Publishing. He has also Guest Edited 20 special issues/sections in academic journals including Journal of Small Business and Enterprise Development, Information Technology and People, International Journal of Entrepreneurship and Innovation and Strategic Change to date. Professor Jones is a prolific entrepreneurial researcher and has authored 99 refereed journal papers in journals such as the British Journal of Management, International Small Business Journal, Entrepreneurship and Regional Development and Journal of Small Business Management. In addition, he has authored 12 edited books and 31 book chapters and sections with 350 plus research outputs in total in his career to date. His research predominantly explores entrepreneurial behaviour and small business management. His recent work has explored entrepreneurial ecosystems and the Entrepreneurial University. He has extensive experience of developing innovative entrepreneurial curriculum and has taught the subject throughout Europe, Africa and East Asia. Professor Jones has also extensive experience as above a lead and co-investigator on a range of Entrepreneurial projects of over £1.5 million in value exploring entrepreneurial ecosystems and supporting students start-ups.
Session IV: Global Supply Chain and Logistics Education
Session Chair: Dr. Sujeet Singh, Indian Institute of Management Jammu, India
5:00 – 6:30 pm (Thursday, March 11) – Room 1

5:00 – 5:20 pm (Thursday, March 11)

Dr. Rajeev Agrawal
Associate Professor, Mechanical Engineering Department and Associate Dean (Research)
Malaviya National Institute of Technology Jaipur, Rajasthan, India

Disruptive technologies in supply chain for promoting sustainability

Dr. Rajeev Agrawal is presently working as an Associate Professor in Department of Mechanical Engineering MNIT, Jaipur. Dr. Rajeev Agrawal is having more than 20 years of teaching and research experience. He is Fellow of the Institution of Engineers (IIE), India. He is currently working in the domain of Sustainable, Smart manufacturing and Supply chain management. His research and teaching interests are in Lean Six Sigma and Operations and planning control. Demonstrating Research capabilities in terms of research papers published/presented (Including CIRP Annals, IEEE Explore Proceedings, Springer, SAGE, Taylor and Francis, Emerald and Science Direct and Inderscience Publishers). He has been serving as an Editor for the Journal of Manufacturing Technology & Research (An International Journal). He is an Editorial Board of the International Journal of Business and Systems Research (IJBSR) (Inderscience Publishers). He is actively involved in bringing industry orientation to the engineering education system in India working with several industries, statutory bodies and other R&D organizations. One of the objectives of his current research is to address convert quickly for the production of new product by providing customized flexibility and can be improved, upgraded and reconfigured in response to fluctuating demands in MSME.

5:20 – 5:40 pm (Thursday, March 11)

Dr. Ibrahim CÖL
Professor, Department of Industrial Engineering
Sakarya University, Sakarya, Turkey

Ibrahim CÖL is a Professor of Department of Industrial Engineering at the Sakarya University. He holds a B.S. from Istanbul Technical University, and a M.S. from the Yildiz Technical University, and a Ph.D. in Industrial Engineering from Istanbul Technical University. His teaching and research specialties are in the fields of Decision Support Systems, Decision Sciences, Multi Criteria Decision Making, data science and analysis, Machine Learning, Artificial Intelligence, Supply Chain and Logistics, Manufacturing Strategies, Lean Manufacturing, Lean Six Sigma, Facility Planning and Layout at industry and academic levels. Prof. Cil has published numerous papers, which have Decision Support Systems, Expert Systems with Applications, Robotics and Computer-Integrated Manufacturing, International Journal of Computer Integrated Manufacturing, Int J Adv Manuf Technol, International Journal of Industrial Engineering - Theory Applications and Practice, The Engineering Economist. Prof. Cil has attended several international conferences in Turkey, US, Japan, England, Netherlands, Germany, France and Greek. Prof. Cil also holds Editorial Membership of several international journals.

5:40 – 6:00 pm (Thursday, March 11)

Dr. Sujeet Singh
Assistant Professor and Chairperson (Research)
Indian Institute of Management Jammu, India

Title: Multi-objective optimization and an application in a pharmaceutical supply chain

Dr. Sujeet Kumar Singh is currently working as an Assistant Professor in Operations & Supply Chain area and as Chairperson (Research) at Indian Institute of Management (IIM) Jammu. He completed his Ph.D in Operations Research (Mathematics) from Indian Institute of Technology (IIT) Roorkee, subsequently he had worked as a Postdoctoral Research Fellow in National University of Singapore for 3 years. Dr Singh has worked with several optimization problems including polynomial optimization, multi-objective optimization, fuzzy optimization, Fractional programming, vehicle routing problem and transportation problem and supply chain optimization. He has published several journal papers in reputed journals including International Journal of production research, Annals of operations research, Applied mathematical modelling, International Journal of fuzzy systems etc. He is also a member of International society of global optimization; and is/was editorial board member of Modern management forum and American journal of operations management and information systems. He also served as a reviewer in several reputed journals such as in Annals of Operations Research, IEEE Transactions on Fuzzy Systems, Computer and Industrial Engineering, International Journal of Fuzzy Systems (Springer), Journal of Intelligent and Fuzzy Systems, IEEE Transactions on Systems, Man and Cybernetics: Systems, International Journal of Machine Learning and Cybernetics, Information Sciences, IJOR, IJSAEM, IJFSA, etc

6:00 – 6:20 pm (Thursday, March 11)

Dr. Rajesh Kr Singh
Professor (Operations and SCM)
Management Development Institute, Gurgaon
Gurgaon, Haryana, India
Associate Editor-International Journal of Consumer Studies (ABDC-"A") and Journal of Global Business and Competitiveness

Dr. Rajesh Kr Singh is Professor in Operations Management Area at Management Development Institute (MDI), Gurgaon, India. His areas of interest include Supply chain management, Industry 4.0, Circular Economy. Currently he is serving as Associate Editor to International Journal of Consumer Studies (Wiley) and International Journal of Global Business and Competitiveness (Springer). He is also on the Editorial Board of Journal of Supply Chain Management Education


Session V: Global Supply Chain and Logistics Education
Session Chair: Dr. Rajesh Kr Singh, Management Development Institute, Gurgaon, Haryana, India
6:30 – 8:00 pm (Thursday, March 11) – Room 1

6:30 – 6:50 pm (Thursday, March 11)

Dr. Gunjan Soni
Assistant Professor
Malaviya National Institute of Technology Jaipur
Jaipur, Rajasthan, India

IoT applications in Logistics

Gunjan Soni did his B.E. from University of Rajasthan, M.Tech from IIT, Delhi and PhD. From Birla Institute of Technology and Science, Pilani in 2012. He is presently working as an Assistant Professor with Department of Mechanical Engineering, Malaviya National Institute of Technology, Jaipur, Rajasthan, India. He has over 15 years teaching experience at under graduate and graduate levels. His areas of research interest are Predictive maintenance and Digital technology applications in supply chain management. He has published more than 80 papers in peer reviewed journals including IEEE Transactions on Engineering Management, Production Planning and Control, Supply Chain Management: An International Journal, Annals of Operations Research, Computers and Industrial Engineering, International Journal of Logistics Research and Applications etc. He is guest editor of special issues in journals like International Journal of Logistics Management and International Journal of Intelligent Enterprise.

6:50 – 7:10 pm (Thursday, March 11)

Prof. Atour Taghipour
Professor of Operations & Supply Chain Management
Normandy University
Le Havre, Normandy, France

Atour TAGHIPOUR is a professor and the head of an international management master program at Normandy University in France. He holds an HDR in management from Normandy University and a PhD in Industrial Engineering from the Polytechnic School of Montreal in Canada. He received two masters’ degrees, one in Management, Logistics & Strategy and other in Industrial Engineering. He has more than ten years of experience as a manager in automobile industries. He has published different books and many research papers in international journals. His areas of research are supply chain and operations management.

7:10 – 7:30 pm (Thursday, March 11)

Dr. Tarvo Niine
Associated Professor of Supply Chain Management
Tallinn University of Technology
Tallinn, Estonia

Tarvo Niine is a senior lecturer at Department of Business administration in the School of Business and Governance of TalTech in Tallinn, Estonia. TalTech is one of three major public universities in Estonia, housing more than 10K students. TalTech is quite international with more than 2000 students from 100 countries. Recently, TalTech School of Business and Governance achieved its first “EFMD accredited” badge. Tarvo's teaching topics are inventory and supply chain management. He is serving as a programme head of business administration. His research themes include logistics competences and future of smart urban mobility.

7:30 – 7:50 pm (Thursday, March 11)
Panel Sessions

Panel 1 - Women in Industry and Academia (WIIA) Panel
4:00 - 5:45 pm (Sunday, March 7), 2021 – Room 2

Panel Chair

Dr. Tay Huay Ling
Senior Lecturer
School of Business
Singapore University of Social Sciences

Huay Ling is a Senior lecturer in the School of Business at the Singapore University of Social Sciences. She holds a Ph.D. degree in Business and Economics (Operations Management) from the University of Melbourne, Australia. Before the Ph.D., she received a MSc in Industrial Engineering from Georgia Institute of Technology, a MSc in Logistics and Supply Chain Management from National University of Singapore and a BEng (Hon) in Chemical Engineering from the National University of Singapore. She teaches courses on operations management and lean six sigma for supply chains, as well as executive training courses. Her research interests include lean six sigma process improvements, services operations, healthcare operations as well as humanitarian logistics. Prior to becoming an academic, she has worked in areas relating supply network analysis, healthcare operations and business process improvements. Besides her academic commitments, she serves as a pro-bono consultant to charity and non-profit organizations, mainly focused on operations improvements through process streamlining and workflow redesigns. She had served as an external program reviewer for the Diploma in International Business at SIM Global Education from 2018-2019 and an institution expert in the World Skill Singapore Competition 2020, freight-forwarding skills segment.

She has published and presented a number of papers on operations management and process improvements in logistics, healthcare, community care and higher education settings using lean six sigma and performance management in humanitarian logistics and supply chains. Huay Ling has won the best paper with strong managerial implications award in the EDSI Venice 2018 conference and best doctoral student paper award in the DSI Baltimore 2013 conference. She has also spoken and served as a panelist for the Healthcare Forum 2018 on “Healthcare Improvement and Innovation in Southeast Asia” jointly organized by the Monash Business Schools, Monash University in Malaysia and Australia.

In her pursuit for teaching and facilitating active learning, Huay Ling has developed a keen interest in doing research in the scholarship of teaching and learning. She has written and presented several conference papers on teaching and learning in higher education. She was invited to facilitate a workshop on the use of interactive game approach for teaching Lean Six Sigma in the 2019 International Conference on Education, Psychology, and Social Sciences at the Tokyo University of Science. She is also a visiting fellow for teaching and applied research development at Chongqing City Management College, Chongqing, China.

Panel Speaker I

Dr. Cheng Ling Tan
Associate Professor
Graduate School of Business
Universiti Sains Malaysia
Penang, Malaysia

Dr. Cheng Ling Tan is an Associate Professor in the Graduate School of Business at Universiti Sains Malaysia. She is also a Deputy Dean in Research, Innovation and Industry-Community Engagement. Dr Tan is appointed as an International Advisor of Daffodil International University, and Adjunct Associate Professor at Multimedia University Malaysia. She is also sitting on the board of The Human Research Ethics Committee of USM (JEPeM). She lectures on Operations and Service management core subject at the MBA level, and Applied Business Research: Quantitative and Qualitative Method as the fundamental course at PhD level. She supervises MBA, DBA, and PhD students in the field of her expertise. Her current research interests are accelerated innovation, knowledge management, lean management, operations and service management, and supply chain management. She has been the Principal Investigator for various grants at the university, national and industry levels. She serves several international journals as the reviewer. Besides, she has been invited as the external examiner for PhD and DBA theses at both national and international level. Dr Tan has published more than 100 articles in academic journals. Before joining academia in 2009, Dr Tan spent many years in industries, holding various executive and managerial positions.

Panel Speaker II

Dr. June Tay
Head of Digital Media Programme
School of Science and Technology
Singapore University of Social Sciences (SUSS)
Singapore

Dr. June Tay is the Head of Digital Media Programme at School of Science and Technology in Singapore University of Social Sciences (SUSS). Prior to joining SUSS, June had worked for government agency and taught ICT and Electronics courses for several universities. After her PhD, June joined British Telecommunications (BT) in the UK as a research scientist. During her career with BT, she had contributed to the Internet Standardisation in Internet Engineering Task Force (IETF), produced several publications and 6 granted patents in the fields of computer networks and security. Dr. June Tay designed the SUSS’ Digital Media Programme to meet the needs for content creation across various industries. She participates keenly in technical research and industry discussions. She is keen to bridge the gaps in enterprises’ approaches with sound solutions.
Ms. Sim Bee Hia  
CEO, Food from the Heart  
Singapore

Sim Bee Hia has strong experience in non-profit and government organisations. Prior to joining Food from the Heart, she has spent 13 years with Singapore Hokkien Huay Kuan as its Secretary-General. Her career spans positions including the inaugural General Manager of the Singapore Chinese Orchestra and Assistant Director HQ at the People's Association. An ardent believer in leading through collaboration, Ms Sim brings along her aptitude to convene diverse groups of people from the public and private sectors to support a worthy cause. After work hours, Ms Sim continues to give her time in community service. For her dedication, she was conferred the Public Service Star (BBM) in 2019 and the Public Service Medal (PBM) in 2010 by the President of Singapore. She also gives back to her alma mater and is currently a member of the joint school management committee for Chung Cheng High School (Main), Chung Cheng High School (Yishun), and Nanyang Junior College. These diverse community interactions keep her engaged with the changes in the social sector while driving Food from the Heart's strategic directions into the future, inspiring everyone to deliver the greatest impact for the community in need of hope and nourishment.

Panel Speaker IV

FANG Eu-Lin  
PwC Singapore  
Partner, Sustainability & Climate Change Leader

Eu-Lin leads the Sustainability & Climate Change practice where she helps clients strategise, implement, report and obtain assurance across a range of climate change and sustainability issues. This includes but not limited to in the areas of carbon measurement, decarbonisation and net zero pathways, climate risk assessments, Sustainability Development Goals prioritisation and green and sustainable finance. She has worked in London and Singapore and served clients across financial services, government, real estate, marine, oil and gas, consumer, resources and telecommunications. Her experiences are across advisory, audit, governance and risk management. Eu-Lin is a Singapore and Australian Chartered Accountant, is an alumnus of Harvard Business School and holds a degree in Accounting and Finance from the University of New South Wales, Sydney. She is concurrently completing her Masters in Public Administration at the Harvard Kennedy School focused on Climate and Sustainability subjects. Eu-Lin serves on not-for-profit boards where she is a board member and Audit & Risk Committee Chairman of a healthcare related board and an international school. She is also the board member of an Institute of Higher Learning and the Deputy Chairman of its business school. She also serves with the People’s Association.

Panel 2 - Supply Chain and Logistics Panel

2:00 - 3:45 pm (Monday, March 8) - Room 2

Panel Chair

Dr. Mark Goh  
Director of Industry Research  
The Logistics Institute - Singapore  
Professor, Department of Decision Sciences, School of Business  
National University of Singapore (NUS)  
Singapore

A former Colombo Plan Scholar, Prof. Goh holds a Ph.D. from the University of Adelaide. In the National University of Singapore, he holds the appointments of Director (Industry Research) at the Logistics Institute-Asia Pacific, a joint venture with Georgia Tech, USA, Principal Researcher at the Centre for Transportation Research, and was a Program Director of the Penn-State NUS Logistics Management Program. He also used to be Director of Supply Chain Solutions for Asia/Middle East with APL Logistics, crafting logistics engineering solutions for major MNCs (Dell, Nike, Lenovo, VW, BMW, Roche, BBraun) in this part of the world. He was on the board of Rigolset, a reverse logistics company. He is also a Professor of Management at the University of South Australia.

Prof. Goh was a Board Member of the Chartered Institute of Transport (Singapore), past Chairman of the Academic Board of Examiners for the Singapore Institute of Purchasing and Materials Management, member of the Advisory Committee of the Transportation Resource Centre (NUS) and a past Vice President of the Operations Research Society of Singapore, Associate Senior Fellow of the Institute of South east Asian Studies. His other professional affiliations include membership of INFORMS, and the Academy of International Business. His biography appears in Who's Who in Asia and the Pacific Nations, Who's Who in the World, and Outstanding People of the 20th Century. He was a member of the Global Advisory Council (GAC) on Logistics and Supply Chain with the World Economic Forum.

He has been involved in executive training for various key organisations in Singapore, for example, PSA Corp., MIS, SIPMM, PSB, J&J, Siemens Nixdorf, CIT, CAAS, Fuji-Xerox AP, Applied Biosystems, Danzas, DHL, Samsung, SemCorp Logistics, Exel, CEI, Bax Global, IBM, PWC Logistics, Sime Darby, Rockwell Automation, Bank of China, PT SMART, and Mindef. Prof. Goh has also acted as a consultant to organisations both in Singapore and overseas, e.g. Lucent Technologies, Pentex Schweitzer, Trans-Link Express, Perkins Parts, Singapore Post, NCB, Unilever East Asia Pacific, MSAS, TDB, Hewlett-Packard Far East, Siemens Nixdorf, APO, Confectionery Transformation, Danzas-AEI, Bossard Asia Pacific, B Braun AP, Pasmimeno, Mindef, Cleanaway (China), IE Singapore, ADB, Knight Frank, Rhodia, World Bank, APEC Secretariat, and Fuji Xerox Singapore. He has led projects for companies such as Dell, Asia Pac Breweries, Roche, PSA, IBM, DFS, ERIA, CAAS, Vale, Save the Children, and EDB.

He has held appointments as a visiting Professor in Business Logistics Strategy at Chulalongkorn University, Commonwealth Fellow to the UK, Citibank International Fellow to the US, visiting research fellow at UMIST, visiting scholar at Beijing University, visiting professor at Melbourne University, Universiti Sains Malaysia, Sun Yat-Sen University, Kaohsiung, King Mongkut University of Technology Thonburi, and professor at the University of South Australia. He is currently on the editorial boards of the Journal of Supply Chain Management, Q3 Quarterly, Journal for Inventory and Telecommunications, and a panel speaker in the Supply Chain and Logistics Panel.
Panel Sessions


Panel Speaker I

Nyoman Pujawan, Ph.D, CSCP
Professor of Supply Chain Engineering
Department of Industrial Engineering
Sepuluh Nopember Institute of Technology
Kampus ITS Sukolilo Surabaya 60111, Indonesia

Nyoman Pujawan is Professor of Supply Chain Engineering at the Department of Industrial Engineering, Sepuluh Nopember Institute of Technology (ITS), Surabaya, Indonesia. He is currently the President of the Indonesian Supply Chain and Logistics Institute (ISLI). He received a Bachelor degree in Industrial Engineering from ITS, Indonesia, Master of Engineering in Industrial Engineering from Asian Institute of Technology (AIT) Bangkok, Thailand, and PhD in Management Science from Lancaster University, UK. He also holds Certified Supply Chain Professional (CSCP) from APICS (USA). He was a Lecturer in Operations Management in Manchester Business School, The University of Manchester, UK in 2003 – 2004. His papers have appeared in many international journals including the European Journal of Operational Research, International Journal of Production Economics, International Journal of Production Research, Production Planning and Control, International Journal of Physical Distribution and Logistics Management, Supply Chain Management: An International Journal, International Journal of Logistics Research and Applications, Business Process Management Journal, among others. He is an active consultant for various supply chain and logistics related industry problems (has involved in over 40 consulting projects). He is a frequent invited speaker for both academic as well as industry forum, nationally as well as internationally.

Panel Speaker II

Ferry Jie, PhD
Associate Professor of Supply Chain and Logistics Management
Edith Cowan University (ECU)
Joondalup, WA 6027, Australia

Ferry Jie is the Associate Professor in Supply Chain and Logistics Management, in the School of Business and Law. Ferry has graduated his doctorate study from The University of Sydney in 2008. His PhD thesis is Supply Chain Analysis in the Australian Beef Industry. Previously, he was a Senior Lecturer and taking a program coordinator role in Logistics and Supply Chain Management (LSCM) at RMIT University. He was managing and coordinating the undergraduate program in LSCM at RMIT from 2015 to 2016.

Associate Professor Ferry Jie has maintained a high quality of research throughout his academic career including international scholarly leadership in the areas of supply chain management and logistics, including being invited to be keynote speaker and to give public lectures at symposiums and international conferences in Indonesia, Malaysia, Vietnam, China, UK and Australia. From 2015 to now, published more than 60 refereed journal articles—including 28 articles in Q1 and 12 articles in Q2, and 18 refereed conference papers. Furthermore, Dr. Jie has received research grants/awards adding up to over $1.6 million between 2010 and 2020.

Areas of Expertise
Supply chain and logistics management including Sustainability Supply Chain Management
Operations/production management;
Quantitative management/management science;
Quality management; Lean Six Sigma;
Strategic management; and
Project management

Panel Speaker III

Dr. Suhaiza Zailani
Professor
Department of Operations Management and Information System
Faculty of Business and Accountancy
University Malaya
Kuala Lumpur 50203, Malaysia
Panel 3 - Global Engineering Education Panel
9:00 - 10:30 pm (Tuesday, March 9) - Room 1

Panel Chair

Professor Donald M. Reimer
Director of Membership and Chapter Development – IEOM Society
President, The Small Business Strategy Group, Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University, Southfield, Michigan, USA

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs’ Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs’ Organization Faculty Advisory Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He has published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.

Panel Speaker I

Dr. Manuel Woschank
Senior Lecturer, Senior Researcher and Chair of Industrial Logistics
Montanuniversitaet Leoben, Austria
Adjunct Associate Professor at the Faculty of Business, Management and Economics at the University of Latvia

Manuel Woschank received a diploma degree in industrial management and a master’s degree in international supply management from the University of Applied Sciences, FH JOANNEUM, Graz, Austria, and a Ph.D. degree in management sciences with summa cum laude from the University of Latvia, Riga, Latvia. He is currently a Senior Researcher, Senior Lecturer, and the Deputy Head of the Chair of Industrial Logistics at the Montanuniversitaet Leoben and an Adjunct Associate Professor at the Faculty of Business, Management and Economics at the University of Latvia. He was a visiting scholar at the Technical University of Kosice (Slovakia), and at the Chiang Mai University (Thailand). His research interests include the areas of logistics system engineering, production planning and control systems, logistics 4.0 concepts and technologies, behavioral decision making, and industrial logistics engineering education.

Panel Speaker II

Dr. Nidhi M B, Fellow IIIE
Associate Professor, Mechanical Engineering Department
Mar Baselios College of Engineering & Technology, (MBCET)-Autonomous
Thiruvananthapuram, Kerala, India
National Executive Council Member ISTE, New Delhi

Prof. Nidhi M B is currently working as Associate Professor in Dept. Mechanical Engineering Dept. of Mar Baselios College of Engineering and Technology, Trivandrum, Kerala. She is also in the capacity of National Executive Council Member of ISTE (Indian Society for Technical education) (2015-2024) and joint Secretary to IIIE (Indian Institution of Industrial Engineers, Kerala chapter) (2011-2012, 2014-2015, 2015-2016, 2019-2021). She has been serving as State Management Committee Member ISTE Kerala section from 2012-2015. Apart from the above responsibilities she has consistently initiated the release of Kerala Section Newsletter for the last 8 years, in the capacity as Newsletter Editor. She received the best faculty advisor award for 2020 on the occasion of 31st ISTE Annual Faculty Convention of Kerala section from Hon.Governor of Kerala on 23 Jan 2021. She has won the National award instituted by IIIE during 58th National convention is IIIE on 22nd OCT 2016, for her contributions.
substantial contributions in Industrial Engineering and awarded Fellowship 2019. She has been instrumental in bridging the Industry Academia Gaps, and she is coordinating more 5 inter-disciplinary projects with industry apart from current teaching responsibilities on the interest of the Institution and completed few funded projects. Dr Nidhi MB has been a special invitee to GEDC (Global Engineering Deans Council Summit), Singapore, IEOM to women in Engineering during March 2016, Malaysia. She has been instrumental in initiating ISTE Faculty and Student Chapters in MBCET, lead the chapter under her chairmanship to present stature. Currently she is serving as the Faculty advisor of ISTE-MBCET students Chapter and won the Best student chapter award for the institution from ISTE Kerala section in 2020. Under her leadership the ISTE Chapter has organised many events for the benefit of students and Faculty. The Chapter has won 10 awards within the short span of 8 years. She has delivered many Keynotes addresses and Invited Lectures at State, National and International forums. She has to her credit 40 papers in National, International Journals and Conferences of which 8 papers are in education research. She is also reviewer of journals and conferences in areas relating to Sustainability in Engineering, Supply Chain Management, Engineering & Technology trends in Mechanical Engineering, etc. Her areas of interest include Pedagogy and Training, Outcome Based Education, Changing roles of Industrial Engineering, Design and Engineering, Green Supply Chain Management, Industry 4.0, smart manufacturing systems, Nature inspired algorithms, etc.

She graduated from the SCT College of Engineering in BTech Mechanical Production in the year 2001. She worked in Industry Leela Lace International Ltd, as Industrial Engineer for 3 years. There by developing a passion for Industrial Engineering, she pursued her Master’s Degree in Industrial Engineering from CET, Kerala, (2006-2008). Since then she started her career in Engineering Education as lecturer, Sr Lecturer and as Asst. Prof with Saintgits College and Mar Baselios College of Engineering and Technology. She has also won many Best Paper Awards in various forums of International conferences and National Conventions. She is also serving as mentor to other ISTE chapters in Kerala. She earned her doctoral degree from the National Institute of Technology Calicut on Sustainability assessment of supply chain network under carbon trading scheme.

Panel Speaker III

Dr. Erwin Rauch  
Assistant Professor in Manufacturing Technology and Systems  
Head of the Smart Mini Factory laboratory for Industry 4.0 application  
Free University of Bolzano, Italy

The role of learning factory labs for teaching Industry 4.0

Erwin Rauch is an Assistant Professor in Manufacturing Technology and Systems at Free University of Bolzano, Italy. He received his BSc in Logistics and Production Engineering from the Free University in Bolzano (Italy). He also holds an MSc in Mechanical Engineering from the Technical University Munich (TUM) and a Master in Business Administration from the TUM Business School. Since 2007, he worked in a Management Consultancy as a Consultant for Lean management. Later he obtained his PhD in Mechanical Engineering at the University of Stuttgart in Germany. Since 2014, he is Assistant Professor at the Free University of Bolzano and in 2017 Visiting Researcher at Worcester Polytechnic Institute (WPI) in Worcester, MA (USA). Further, he is Head of the Smart Mini Factory laboratory for Industry 4.0 application at the Free University of Bolzano. His research interests include industry 4.0, axiomatic design, agile and reconfigurable manufacturing systems as well as optimization in SMEs.

Panel Speaker IV

Panel 4 - Industry 4.0 Panel

5:00 - 6:45 pm (Wednesday, March 10) - Room 1
"Quality 4.0 Practices, Challenges, and Opportunities in Industrial Enterprises".

Panel Chair

Ts. Dr. Mehran Doulat  
Associate Professor  
MBA Review Committee/Coordinator  
Xiamen University Malaysia (XMUM)  
Director of Centre for Operational Excellence Research (COER)  
Editorial Advisory Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Dr. Mehran Doulat is an Associate Professor of Operations and Quality Management and MBA program Review Committee/Coordinator. He holds a Bachelor of Science in Engineering; double Master’s Degrees in Engineering Management (MEM) and Quality Management (MQM) and a PhD from University of Wollongong, Australia. Dr. Doulat has completed 2 years Post-Doctoral Fellowship in the area of Innovation and Performance Excellence. Dr Doulat spent more than 15 years in industries, holding various executive and managerial roles in QA/QC, performance measurement, business excellence and benchmarking. He is a certified EFQM Excellence Assessor and a “TRADE” Certification Best Practice Benchmarking from Global Benchmarking Network (GBN). He served as a Senior Assessor for the Dubai Quality Award (DQA) program since 2007. He has also been actively involved in a number of academic-industrial projects and research in United States, Canada, Australia, New Zealand, United Kingdom, Japan, Singapore, Malaysia, India, and UAE. Dr. Doulat has been working as a visiting professor and Associate Researcher at University of Wollongong, Australia, National University of Singapore, Meiji University, Japan, Universiti Teknologi Malaysia, Massey University, New Zealand and Xiamen University, China.

Panel Speaker I
Panel Sessions

Dr. Nigel Grigg
Professor of Quality Systems
Head of Department of Operations and Engineering Innovation (OEI)
School of Engineering and Advanced Technology
Massey University, Palmerston North, New Zealand
Associate Editors of Journal of Total Quality Management & Business Excellence, Taylor & Francis Publishing

Dr. Nigel is the Professor of Quality Systems, and leads the Department of Operations and Engineering Innovation (OEI) within the School of Engineering and Advanced Technology at Massey University, Palmerston North, New Zealand. Dr. Nigel undertakes teaching, research and consultancy across the disciplines of industrial design and innovation, operations management, supply chain management, quality systems, and information technology applications to operations. Dr. Nigel's particular specialism is quality systems, including business process improvement, statistical quality control, six sigma, lean, Business Excellence, service quality, research methods and structural equation modelling. He applies mathematical and statistical methods within operations management, particularly to the management and control of product, service quality and supply chain systems. His recent research projects include developing a performance measurement framework for national health care, applying lean thinking within a horticulture setting, and examining the role of national culture as a mediating influence on 'standardised' management and improvement frameworks such as ISO 9001, Six Sigma, and lean. Dr Nigel served as Associate Editor of Journal of Total Quality Management & Business Excellence, Taylor & Francis Publishing since 2014.

Panel Speaker II

Dr. Matthew Pepper
Senior Lecturer
School of Management, Operations and Marketing
University of Wollongong (UOW), New South Wales, Australia.
Editorial Advisory Boards for the International Journal of Lean Six Sigma, the Journal of Manufacturing Technology Management. and International Journal of Information and Operations Management Education

Dr. Matthew pepper is currently a Senior Lecturer within the School of Business, Faculty of Business and Law, at the University of Wollongong Australia. Matt sits on the editorial advisory boards of a number of academic journals, including the Journal of Manufacturing Technology Management, International Journal of Lean Six Sigma and the International Journal of Information and Operations Management Education. Within the faculty of Business and Law, his teaching responsibilities include supply chain management and strategy at both undergraduate and postgraduate levels. Matt's core research interests lie in the application of systems thinking to supply chain disruption, performance management and continuous improvement in the public sector. Most recently, his work has focused on engaging with public sector organizations to develop appropriate performance measurement and management strategies. Matt has currently supervises a number of industry based candidates in these areas of interest and has been an external examiner for a number of PhD theses.

Panel Speaker III

Dr. Azmawani Abd Rahman
Professor
School of Business and Economics
Universiti Putra Malaysia (UPM)
President of Research and Education at the Malaysia Franchise Association (MFA)
Former Director of Corporate Strategy and Communication Office UPM
Former Deputy Director of Research Management Centre UPM

Dr. Azmawani Abd Rahman is a Professor at the School of Business and Economics Universiti Putra Malaysia (UPM). She holds a Bachelor of Science in Finance from the University of South Alabama (United States) and a Ph.D. in Operations and Technology Management from Aston University, United Kingdom. Previously, she served as Director of Corporate Strategy and Communication Office UPM, where she was responsible for various university main functions such as public and media relation, university rankings and ratings, and university strategic directions and key performances. Prior to that, she was a Deputy Director at UPM Research Management Centre, Head of Department and Deputy Dean at the Faculty of Economics and Management, UPM. Azmawani actively collaborates with the industry through her involvement as an advisor, assessor, consultant, and trainer. She is currently a president for the Research and Education committee at the Malaysia Franchise Association (MFA). She has made more than 50 appearances in the mainstream media (newspaper, television, radio) through her writing and comments. She published in more than 150 articles in Scopus and ISI cited journals and books. Azmawani was appointed as an official case writer for Malaysia Productivity Corporation Business Excellence Award and Chief Minister Industry Excellence Award.

Panel Speaker IV
Panel 5 - Diversity and Inclusion Panel sponsored by Ford Motor Company
9:00 - 10:30 pm (Wednesday, March 10) - Room 1

Panel Chair:

Professor Cecilia Nembou
President and Vice-Chancellor (Retired)
Divine Word University
Papua New Guinea

Until the end December 2020, Dr Cecilia Nembou was for five years, the President of the Divine University in Papua New Guinea. She was a Professor of Higher Education Leadership and Management. She is a mathematician by training and holds a PhD in Operations Research from the University of New South Wales (1992) in Sydney, Australia. She has held various academic and senior management positions at the University of Papua New Guinea, Papua New Guinea Banking Corporation, University of Wollongong in Dubai and at the Divine Word University over a period spanning 45 years. Dr Nembou has served on various committees and Councils of Universities as well as on Boards of State-Owned Enterprises and Boards of commercial and non-government organizations. As President of the Divine Word University she was a member of the Divine Word University Council and CEO of the University's Six-campus corporate system. She was a past Head of Mathematics Department, Executive Dean of the School of Natural and Physical Sciences, Pro Vice Chancellor, and Acting Vice Chancellor at the University of Papua New Guinea; and past Academic Registrar and Senior Lecturer in Mathematics at the University of Wollongong in Dubai. She is now retired and resides in Madang in Papua New Guinea.

Panel Speaker I

Dr. NG Szu Hui
Associate Professor and Acting Head
Department of Industrial Systems Engineering and Management
National University of Singapore
Singapore

Szu-Hui Ng received the PhD degree from the Department of Industrial and Operations Engineering at the University Michigan. She is currently an associate professor and acting head in the Department of Industrial and Systems Engineering at the National University of Singapore. Her research interests include quality engineering, design of experiments, and simulation. She has published a number of papers in these areas.

Panel Speaker II

Dr. Hannelie Nel
Senior Lecturer, Postgraduate School of Engineering Management
Faculty of Engineering and the Built Environment
University of Johannesburg
South Africa

Dr Hannelie Nel is an Academic in the Postgraduate School of Engineering Management at the University of Johannesburg. She holds a Doctorate in Engineering Management, a Master of Science Degree in Industrial Engineering and a Bachelor’s Degree in chemical Engineering. She has twenty years’ experience in both industry and academia and her work entails business and education strategy development; the design, implementation and costing of business and quality management systems; training and education; business research systems; process improvement; and gender advancement in engineering.

Panel Speaker III
Panel Speaker IV

Jihong Yan, Ph.D.
Professor in Industrial Engineering
Deputy Dean of School of Mechatronics Engineering
Head of Intelligent Manufacturing Scientific Research Team
Harbin Institute of Technology, Harbin, China

Jihong Yan is a Professor (since 2005) in Industrial Engineering at Harbin Institute of Technology (HIT), she is also the deputy dean of School of Mechatronics Engineering and head of intelligent manufacturing scientific research team at HIT. She received her PhD from Harbin Institute of Technology. Then she joined Tsinghua University, the University of Wisconsin, and Pennsylvania State University as a postdoctoral researcher. Dr. Yan is the director of National High-end Equipment Manufacturing Virtual and Simulation Experiment Teaching Center, head of Research Oriented Teaching Innovation Team for High-end Equipment Manufacturing of the Ministry of Industry and Information Technology of China, vice chairman of Production System Special Committee of Chinese Mechanical Engineering Society, and chairman of Industrial Engineering Professional Committee of the Mechanical Engineering Society of Heilongjiang Province. Her main area of research is industrial big data, sustainable manufacturing, intelligent logistics and advanced maintenance of machinery. As a PI, Dr. Yan has worked on and accomplished 15 projects in intelligent manufacturing and sustainability related areas, funded by the NSF of China(NSFC), NSF joint-project funding, National key R&D plan project funding, National High-tech project funding, National ‘863’ project funding, EU EPSRC project funding, High-tech funding from industries, and so on. She has authored and co-authored over 100 research papers and published 3 books, two papers were ranked ESI high cited articles. Currently there are 17 professors and engineers with her research team, the team dedicates to theoretical research and system implementation in the fields of intelligent operation optimization theory and methods of manufacturing systems, manufacturing IoT technologies and devices, and equipment health monitoring, etc.

Panel Speaker V

Hajj Flemings
CEO/Founder
Rebrand Cities
Birmingham, Michigan, United States

Hajj Flemings was one of eight entrepreneurs selected for CNN’s Black in America 4: The New Promised Land: Silicon Valley documentary with Soledad O’Brien. During the documentary, he began to understand the real meaning of the term ‘meritocracy.’ He recognized that lack of access in the technology space created a permanent underclass in communities of color. That experience changed the course of his life, Hajj is the founder of Brand Camp® University, an educational platform preparing people for the future of work. In 2017 he launched Rebrand Cities, a global civic design initiative with the audacious goal of getting 10,000 businesses online and eradicating the digital divide. He has worked with clients including Cadillac, Walt Disney, AT&T, WordPress.com, Pitney Bowes, Pfizer, the Detroit Lions, and the U.S. Department of Defense. He has had the privilege of being an invited speaker at Harvard University, Iowa State University, University of Michigan - Ross School of Business, Davidson College, among others; as well as being featured in the Wall Street Journal, TechCrunch, Mashable, and CNN Tech Money on the subjects of startups, digital technology, and branding. Hajj Flemings earned a Bachelor of Science degree in Mechanical Engineering from Michigan Technological University and a Master’s degree in Business Administration from Lawrence Technological University. In his free time, Hajj enjoys training for his next half marathon, as well as spending time with his wife and daughter in the Detroit metro area.

Panel Speaker VI

Professor Donald M. Reimer
Director of Membership and Chapter Development – IEOM Society
President, The Small Business Strategy Group, Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering
Lawrence Technological University, Southfield, Michigan, USA

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs’ Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs’ Organization Faculty Advisory Board, and a member of the Small Business Strategy Group Board of Directors.
Panel Sessions

Council and is a member of the American Society of Engineering Education. He has operated his own consulting company – The Small Business Strategy Group for 23 years. He published numerous articles on small business, entrepreneurship and strategic thinking. He has received several awards and recognition by local, state and federal agencies for his work in entrepreneurship and minority business development. Mr. Reimer served as member of the Minority Economic Development Committee of New Detroit. Mr. Reimer is member of the Small Business Advisory Council of the Detroit Regional Chamber of Commerce. Mr. Reimer is a member of Advisory Board of the Milwaukee Junction Small Business Assistance Center. He is also a member of the Applied Innovation Alliance. Mr. Reimer serves as a KEEN Fellow for The Kern Family Foundation and is a member of United States Association of Small Business and Entrepreneurship.
### Parallel Sessions

**All Times are in Singapore Time**

**Saturday, February 27, 2021, 7:00 am – 2:00 pm**

**High School STEM Competition**

#### Sunday, March 7, 2021

<table>
<thead>
<tr>
<th>Time</th>
<th>Room 1</th>
<th>Room 2</th>
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<tbody>
<tr>
<td>8:00 – 9:45 am</td>
<td>Operations Management</td>
<td>Engineering Economy</td>
<td>Human Factors &amp; Ergonomics</td>
<td>Design and Analysis</td>
<td>Business Management</td>
</tr>
<tr>
<td>10:00 – 11:45 am</td>
<td>Decision Sciences</td>
<td>Sustainability &amp; Green</td>
<td>Entrepreneurship/Innovation</td>
<td>Energy</td>
<td>Business Management</td>
</tr>
<tr>
<td>12:00 – 1:45 pm</td>
<td>Undergraduate Paper Competition</td>
<td>Lean Six Sigma</td>
<td>Operations Management</td>
<td>Maintenance/Reliability</td>
<td>Operations &amp; Processes</td>
</tr>
<tr>
<td>2:00 – 3:45 pm</td>
<td>Undergraduate Paper Competition</td>
<td>Business Management</td>
<td>Quality Control</td>
<td>Engineering Education</td>
<td>Engineering Management</td>
</tr>
<tr>
<td>4:00 – 5:45 pm</td>
<td>Undergraduate Paper Competition</td>
<td>Women in Industry and Academia (WIA) Panel</td>
<td>Modeling and Simulation</td>
<td>Supply Chain</td>
<td>Operations Excellence</td>
</tr>
<tr>
<td>6:00 – 7:45 pm</td>
<td>Manufacturing and Control</td>
<td>Business Management</td>
<td>Undergraduate Research Competition</td>
<td>Business Management</td>
<td>Senior Design Project / FYP Competition</td>
</tr>
<tr>
<td>8:00 – 8:45 pm</td>
<td>Keynote I: Dr. Mario Fargnoli, Technical</td>
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<td></td>
<td>Director, Italian Ministry of Agriculture</td>
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<td>and Contract Professor</td>
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<td>at Professor at Faculty of Civil and</td>
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<td></td>
<td>Industrial Engineering of Sapienza University of Rome, Italy</td>
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<tr>
<td>9:00 – 10:30 pm</td>
<td>Modeling and Simulation</td>
<td>Supply Chain</td>
<td>Design and Analysis</td>
<td>Green and Waste</td>
<td>Operations Management</td>
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#### Monday, March 8, 2021

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00 – 9:45 am</td>
<td>Graduate Paper Competition</td>
<td>Maintenance &amp; Reliability</td>
<td>Business Management</td>
<td>Supply Chain</td>
<td>Operations</td>
</tr>
<tr>
<td>10:00 – 11:45 am</td>
<td>Master Thesis Competition</td>
<td></td>
<td>Engineering Management</td>
<td>Business Management</td>
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</tr>
<tr>
<td>12:00 – 1:45 pm</td>
<td>Master Thesis Competition</td>
<td>Case Studies</td>
<td>Operations Management</td>
<td>Supply Chain</td>
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</tr>
<tr>
<td>2:00 – 3:45 pm</td>
<td>Graduate Paper Competition</td>
<td>Supply Chain Panel</td>
<td>Sustainable Manufacturing</td>
<td>Operations Management</td>
<td>Education</td>
</tr>
<tr>
<td>4:00 – 5:45 pm</td>
<td>COVID-19 Analytics Competition</td>
<td>AI and Cybersecurity</td>
<td>Transportation and Logistics</td>
<td>Supply Chain</td>
<td>Education</td>
</tr>
<tr>
<td>6:00 – 7:45 pm</td>
<td>COVID-19 Analytics Competition</td>
<td>Smart Mobility</td>
<td>Case Studies</td>
<td>Industry 4.0</td>
<td>Education</td>
</tr>
<tr>
<td>8:00 – 9:45 pm</td>
<td>COVID-19 Analytics Competition</td>
<td>Healthcare Systems</td>
<td>Operations Management</td>
<td>Machine Learning</td>
<td>Education</td>
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#### Tuesday, March 9, 2021

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:00</td>
<td>Global Engineering Education I</td>
<td>Construction Management</td>
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<tr>
<td>9:30</td>
<td>Welcome Keynote: Professor Cheong Hee Kiat, President, Singapore University of Social Sciences</td>
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<tr>
<td>9:40</td>
<td>Keynote II (Opening Keynote): Dr. Hamid Parsaeni, Professor, Dept. of Industrial and Systems Engineering, Texas A&amp;M University, College Station</td>
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<tr>
<td>10:20</td>
<td>Keynote III: Alex Teo, Vice President &amp; Managing Director – South East Asia, Siemens Digital Industries Software, Singapore</td>
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<tr>
<td>11:00</td>
<td>Keynote IV: Dr. Chung Paw TEO, Provost’s Chair Professor, Executive Director, IORA, Business School, National University of Singapore</td>
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<tr>
<td>11:40</td>
<td>Keynote V: Dr. Benny Yajjone, Professor of Supply Chain Management, Centre for Business in Society, Coventry University, UK</td>
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<td>12:20</td>
<td>Keynote VI: Dr. Lu ZHEN, Dean and Professor, School of Management, Shanghai University, Shanghai, China</td>
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<td>1:00</td>
<td>Global Engineering Education II</td>
<td>Case Studies</td>
<td>Business Management</td>
<td>Lean Six Sigma</td>
<td>Operations Management</td>
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<tr>
<td>3:00</td>
<td>Global Engineering Education III</td>
<td>Energy</td>
<td>Human Factors &amp; Ergonomics</td>
<td>Supply Chain</td>
<td>OM</td>
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<tr>
<td>5:00</td>
<td>Global Engineering Education IV</td>
<td>Supply Chain</td>
<td>Industry 4.0</td>
<td>Automation and Control</td>
<td>EOM-FlexSim Simulation Competition</td>
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<tr>
<td>7:00</td>
<td>Global Engineering Education V</td>
<td>Higher Education</td>
<td>Supply and Demand</td>
<td>Teaching and Learning</td>
<td>TQM</td>
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<tr>
<td>9:00</td>
<td>Global Engineering Education Panel – Room 1</td>
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#### Wednesday, March 10, 2021

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<tbody>
<tr>
<td>8:00</td>
<td>Industry 4.0 / Industry Solutions I</td>
<td>Sustainability in Supply Chain</td>
<td>Design and Analysis</td>
<td>Supply Chain Management</td>
<td>Case Studies</td>
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<tr>
<td>9:30</td>
<td>Conference Chair Remarks</td>
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<tr>
<td>9:40</td>
<td>Keynote VII: Dr. Victoria Jordan, Vice President – Quality, Emory Healthcare, Atlanta, Georgia, USA</td>
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<tr>
<td>11:00</td>
<td>Keynote IX: Dr. Ir. Wahyudi Sutopo, Professor, Dept. of Industrial Engineering and Vice Dean, Universitas Sebelas Maret, Indonesia</td>
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<td>11:40</td>
<td>Keynote X: Prof. Ruth Banomyong, Dean, Thammasat Business School, Thammasat University, Thailand</td>
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<td>12:20</td>
<td>Keynote XI: Dr. Alessandro Romagnoli, Associate Professor, School of Mechanical and Aerospace Engineering, Nanyang Technological University, Singapore</td>
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<tr>
<td>1:00</td>
<td>Industry 4.0 / Industry Solutions II</td>
<td>Maintenance and Reliability</td>
<td>Data Analytics</td>
<td>Engineering Management</td>
<td>Technical Session</td>
</tr>
<tr>
<td>3:00</td>
<td>Industry 4.0 / Industry Solutions III</td>
<td>Lean Six Sigma</td>
<td>Decision Sciences</td>
<td>Industrial Management</td>
<td>SCM Competition</td>
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<tr>
<td>5:00</td>
<td>Industry 4.0 Panel</td>
<td>Operations Research</td>
<td>Energy</td>
<td>Business Management</td>
<td>LSS Competition</td>
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<tr>
<td>7:00</td>
<td>Industry Solutions V</td>
<td>Technical Session</td>
<td>Technical Session</td>
<td>Business Analytics</td>
<td>Doctoral Competition</td>
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<tr>
<td>9:00</td>
<td>Diversity and Inclusion Panel Sponsored by Ford Motor Company – Room 1</td>
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#### Thursday, March 11, 2021

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<tbody>
<tr>
<td>8:00</td>
<td>Global Business Management I</td>
<td>Business Management</td>
<td>Healthcare Systems</td>
<td>Project Management</td>
<td>OM</td>
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<tr>
<td>9:30</td>
<td>Conference Chair Remarks</td>
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<tr>
<td>9:40</td>
<td>Keynote XII: Dr. Robert de Souza, Executive Director, The Logistics Institute – Asia Pacific (TLI – Asia Pacific), Singapore</td>
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<td>10:20</td>
<td>Keynote XIII: Dr. Jenson Goh, Chief Information and Learning Officer, MONDE NISSIN Singapore Pte Ltd., Singapore</td>
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<td>11:00</td>
<td>Keynote XIV: Dr. Hoong Chian LAU, Professor of Information Systems, Singapore Management University (SMU), Singapore</td>
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<td>11:40</td>
<td>Keynote XV: Dr. Murphy Choy, Director of Operations and Technology, SSON Analytics, Singapore</td>
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<tr>
<td>12:20</td>
<td>Keynote XVI: Dr. Noordin Mohd. Yusof, Professor, Department of Materials, Manufacturing and Industrial Engineering, UTM, Malaysia</td>
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<tr>
<td>1:00</td>
<td>Global Business Management II</td>
<td>E-Business/Service</td>
<td>Information Systems</td>
<td>Logistics and Transportation</td>
<td>IoT</td>
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<tr>
<td>3:00</td>
<td>Global Business Management III</td>
<td>Occupational Safety &amp; Health</td>
<td>Quality Control</td>
<td>Business Analytics</td>
<td>Supply Chain</td>
</tr>
<tr>
<td>5:00</td>
<td>Global Supply Chain Education IV</td>
<td>Facilities Planning and Layout</td>
<td>Business Analytics</td>
<td>Disruptive Technologies</td>
<td>Manufacturing</td>
</tr>
<tr>
<td>8:00 – 10:00 pm</td>
<td>Conference Awards Ceremony</td>
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February 27, 2021 (Saturday) - Session: 7:00 am – 2:00 pm
High School STEM Competition

Session Chair: Professor Don Reimer, LTU, Michigan, USA
Judges: TBD

ID 1080 Modeling and Analyzing COVID-19 Infection Curves of Different Countries Using Nonparametric Density Regression and Clustering Techniques
Saloni Patel and Mason Chen, Stanford Online High School, Redwood City, CA 94063, USA

ID 1081 Utilizing Statistical Tools to Explore Swing State Behavior in the 2020 Election
Saloni Patel and Mason Chen, Stanford Online High School, Redwood City, CA 94063, USA

ID 721 Understanding Student’s Learning using Keyword Discovery and Sentiment Analysis in Serious Game
Chang Zhi Hao Nelson, Ruan Yang, Simon Chan, and Linda William, Temasek Polytechnic, School of Informatics & IT, Singapore

ID 729 Serious Game Data Collection using Shared Database
Elroy Chua, Zulfami Ashrafi, Muhammad Rizal Ismail, Nur Aisha Khalid, Linda William, School of Informatics & IT, Temasek Polytechnic, 21 Tampines Ave 1, Singapore

ID 807 Analyzing ACL Injury Risk Using 3D-Motion Sensors and Various Statistical Methods
Mason Chen, Stanford OHS, Academy Hall Floor 2 8853 415 Broadway, Redwood City, CA 94063, USA

ID 808 Interpreting RSM Results – Dumpling Physics or a Problematic DOE Structure?
Mason Chen, Stanford OHS, Academy Hall Floor 2 8853 415 Broadway, Redwood City, CA 94063, USA
Patrick Giuliano, Morrill Learning Center, Statistics-Aided Engineering 2191 Morrill Avenue, San Jose, CA 95132, USA

ID 854 Optimizing Car Safety and Function using Mixture DOE and Physics
Arhan Surapaneni, Stanford Online High School, United States

ID 973 2020 US COVID Stock ROI Multivariate Statistical Modeling during COVID-19 Outbreak
Chi-hong Ho, Junior, Henry M. Gunn High School, Palo Alto, CA, USA
Mason Chen, Sophomore, Stanford University OHS, Redwood City, CA, USA

ID 974 Building statistical models and validating NBA 2015-2019 Regular Season MVP
Chi-feng Ho, Junior, Henry M. Gunn High School, Palo Alto, CA, USA
Mason Chen, Sophomore, Stanford University OHS, Redwood City, CA, USA

ID 975 Perfecting College Essay Strategy with Text Mining Method
Chi-hong Ho and Chi-feng Ho, Junior, Henry M. Gunn High School, Palo Alto, CA, USA
Arhan Surapaneni and Mason Chen, Sophomore, Stanford University OHS, Redwood City, CA, USA

ID 910 Perfecting College Essay Strategy with AHP Methods and Homogeneous Testing
Arhan Surapaneni and Mason Chen, Stanford Online High School, CA, United States
Chi-Feng Ho and Chi-Hong Ho, Henry M. Gunn High School, CA, USA

ID 976 Using Quality Function Deployment method perfecting UC application 8 prompt choosing strategy
Chi-feng Ho and Chi-hong Ho, Junior, Henry M. Gunn High School, Palo Alto, CA, USA
Arhan Surapaneni and Mason Chen, Sophomore, Stanford University OHS, Redwood City, CA, USA

ID 731 Three-Level Closed-Loop Supply Chain Considering Carbon Emission of Industrial Cost for Self-Healing Packages
Jose Ma. Luis Salazara, Senior High School student and Ardvin Kester S. Ongb, Young Innovators Research Center, Mapúa University, Manila, Philippines, 658 Muralla St., Intramuros, Manila 1002, Philippines

ID 765 Three-Level Closed-Loop Supply Chain Optimization Considering Self-Healing Packages
Dioirelle Oneil C. Gallerza (Senior High School student), Ardvin Kester S. Ongb, Luis Carlos Miguel M. Eborab, Jake Matthew C. Depositarb, and Juijan Limson C. Andradab, Young Innovators Research Center, Mapúa University, Manila, Philippines, Intramuros, Manila, Philippines

ID 1127 Happy Harry!
Lucas Nai Yi Jia, Ethan Lim Yoke Han, Kaiser Chao Yu Dong and Troy Chng Kai Sheng, St Patrick’s School, Singapore

ID 1128 Analyzing the Open Electricity Market in Singapore using Data Science Approaches
Natasha Alexandra Gunawan and Wong Yew Chong Kester, National Junior College, 37 Hillcrest Rd, Singapore

ID 1141 Park Model using Concentrated-Solar-Power Photovoltaics
Darren Johaness Manua and Eden Steven, SPH Applied Science Academy, Sekolah Pelita Harapan Lippo Village, Tangerang, Banten

ID 1144 COVID-19 Vaccine Track and Traceability System
Warattra Singkarin, Kwinyarat Poungsangthanakul, Kunyapak Teekakun and Premote Namyang, Satriwithaya School, Bangkok, Thailand

ID 1145 Biaxial Tensile Test System: Articular Cartilage Properties in Biaxial vs. Uniaxial Tension
Aadi Biswas, 10th Grade, Singapore American School (High), Singapore, 738547, Singapore
Van W. Wong , Albert C. Chen, and Robert L. Sah, Department of Bioengineering, University of California, San Diego, La Jolla, California, USA
ID 1146  Antiviral Nanomask in the Fight against Covid-19 Pandemic  
Lakshith Br, Vignesh Sk, Nivedha R and Mohankumar Jk, Reeds World School, Coimbatore, India

ID 1151  The Plausibility Of Recycling Used Tennis Strings As 3D Printing Filament  
Anoushka Ghosh, International Baccalaureate Year 1, United World College South East Asia (Dover), Singapore, 139654, Singapore

ID 1158  Battery Can Help  
Po-Kai, Fang, Yu-Chien, Wu, and Ying-Ci, Lin, Taipei Municipal Yongchun senior high school, Taipei, Taiwan

ID 1159  Study of Ferrofluid and Magnetic Fields  
Lan-Cheng Li and I-Kai Li, Mathematically Gifted Class, Taipei Municipal Yongchun Senior High School, Xinyi Dist., Taipei City, Taiwan

ID 1174  Discussion on the properties of Magnetic Fields  
Wang Ding-Chia and Yu.Bo-Ren, Mathematically Gifted Class, Taipei Municipal Yongchun Senior High School, No. 654, Songshan Rd., Xinyi Dist., Taipei City 110, Taiwan (R.O.C.)

ID 1187  Interpretability in Convolutional Neural Networks for Building Damage Classification in Satellite Imagery  
Thomas Chen, The Academy for Mathematics, Science, and Engineering, Rockaway, NJ 07866, USA

ID 1201  Using Machine Learning Optimization to Predict Autism in Toddlers  
Z. Farooqui, B. Sattler, U. Usua, and A. Singh, ARQuest Student Science and Engineering Research Network, ARQuest International, USA

ID 1202  Croptimize: A Novel Robot to End Agricultural Yield Inefficiencies through Crop Switching  
Pranav Palleti, Shivam Pathak, Ashok Devireddy, Pranav Prabhuram, Sameer Iyengar, Sukhamrit Singh, and Ankit Kapoor, Evergreen Makers, Evergreen Valley High School, San Jose, CA 95148, USA

March 7, 2021 (Sunday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, SUNDAY  Operations Management  Room 1

Session Chair: Sawarni Hasibuan, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

ID 686  Determination the Smoothing Constant that Minimizes Mean Absolute Error and Mean Square Deviation  
Agung Prabowo, Agustini Tripena, Danang Adi Pratama, and Ibnu Giniar Susilo, Zulfatul Mukarrromah, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Jenderal Soedirman, Indonesia

Mustafa Mamat, Faculty of Informatics and Computing, Universiti Sultan Zainal Abidin (UNISZA), Gong Badak Campus, Terengganu, Malaysia

Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 687  A New Three-Dimensional Chaotic System with Stable Equilibrium: Its Adaptive Control and Circuit Design  
Siti Hadiaty Yuningsih, Master Program in Mathematics, Faculty of Mathematics and Natural Science, Universitas Padjadjaran, Indonesia

Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Aceng Sambas, Departement of Mechanical Engineering, Universitas Muhammadiyah Tasikmalaya, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 733  Determining the Size of Centrality in Social Networks  
Mochamad Suyudi, Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 741  Fintech Payment Application in Improving Customer Services  
Fredi Andria, and Dea Restu Ananda, Department of Management, Faculty of Economics Pakuan University, Bogor, Indonesia

Amelia Rahmi, Department of Accounting, Faculty of Economics Pakuan University, Bogor Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 756  Comparison of ARIMA, Linear Trend and Single Exponential Smoothing for short-term forecasting of power plant spare parts inventory  
Agus Sutomo, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia

Hasbullah, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

Sawarni Hasibuan, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

ID 761  Credit Analysis Optimization Using Fuzzy Neural Network  
Retno Martanti Endah Lestari, Arief Tri Hardiyanto, Abdul Kohar, and Yuri Asrika, Department of Accounting, Faculty of Economics Pakuan University, Bogor, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 766  Comparison of ARIMA, Linear Trend and Single Exponential Smoothing for short-term forecasting of power plant spare parts inventory  
Agus Sutomo, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia

Hasbullah, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

Sawarni Hasibuan, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia
ID 745  Investigating the Effect of Micro Waqf Bank Sector Expansion on Poverty Alleviation: An Evidence from Indonesia Rural Communities
Fuadi, Ahmad Fauzul Hakim Hasibuan, Rico Nur Ilham, Falahuddin, Wahyuddin, Muammar Khaddafii, and Munandar, Faculty of Business and Economics, Universitas Malikussaleh, Bung Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, Parit Raja, Johor, Malaysia

ID 958  Nexus of America's Exchange and Interest Rate toward Indonesia's Economy: An Application of Time-Series Regression
Ulfia, Faculty of Economics, Universitas Serambi Mekkah, Lueng Bata, Banda Aceh City, Aceh 23127, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 868  Investigating the Features of Indonesia Stock Price during Covid-19 Pandemic: An Application of Merton Jump Diffusion Model
Dhea Putri Adriani, Ratna Herdiana and Widowati, Department of Mathematics, Faculty of Science and Mathematics, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 870  Factors that Affect Customer Credit Payments during COVID-19 Pandemic: An Application of Light Gradient Boosting Machine (LightGBM) and Classification and Regression Tree (CART)
Imas Wihdah Misshuari, Ratna Herdiana, and Farikhin, Department of Mathematics, Faculty of Science and Mathematics, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 889  Financial Management System Integrated by Web-Based Payment Cash Link Solution to Invent Smart Reconciliation
Untung Rahardja, Qurrotul Aini, Nuke Puji Lestari Santoso, and Marviola Hardini, Master of Information Technology Department, University of Raharja, Indonesia
Aulia Edliyanti, Student of Computer Accounting Department, University of Raharja, Indonesia

ID 841  Determinant Factors that affect Foreign Banks Profitability: An Evidence from Indonesia
Ruhul Fajrjana, Muhammad Roni, and Ghazali Syammi, Department of Management, Universitas Malikussaleh, Bukit Indah, Blang Pulo, Muara Satu, 24355 Aceh Utara, Indonesia
Ichsan, Department of Economics, Universitas Malikussaleh, Bukit Indah, Blang Pulo, Muara Satu, 24355 Aceh Utara, Indonesia
Alwin Tanino, Department of Management, Universitas Gajah Putih, Pegasing, 24552 Central Aceh, Aceh, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 862  Analysing the Measurement System and Business Loans Performances: A Case Study of People's Credit Bank (BPR-BKK) in Central Java, Indonesia
Aptis Qurrotu A’yun, Diploma of Strategic Management, Faculty of Vocational School, Universitas Diponegoro PSDKU, Batang, Jawa Tengah 51216, Indonesia
Muhammad Wildan Sholih and Imam Prayogo, Diploma of Financial Accounting, Faculty of Vocational School, Universitas Diponegoro PSDKU, Batang, Jawa Tengah 51216, Indonesia
Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

8:00 – 9:45 am, SUNDAY  Human Factors and Ergonomics  Room 3
Session Chair: Carissa Joie C. Hernandez, Adamson University Manila, Philippines

ID 465  A Research Study on the Effects of Job Rotation on Employee Productivity and Satisfaction on Selected Garment Companies
Marvin A. Carreon, Shielia Myka D. Generoso, Almarose C. Villapando and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 601  Assessment of Airplane Seat Pitch Design using Saudi Anthropometric Data
Atef M. Ghaleb, Department of Industrial Engineering, College of Engineering, King Saud University, Riyadh, Saudi Arabia
Abdallah Alrshdan, Mona Alharbi, Sarah Alrowaita, and Aljawhara Aljebreen, Department of Industrial Engineering, College of Engineering, Alfaisal University, Riyadh, Saudi Arabia

ID 418  Easy to Produce and Low-Cost Ergonomics Full-Face Mask Design against Airborne Transmission
Arief Rahman, Retno Widyaningrum, Anny Maryani, Aldi Yustisia, and Putra Bagus Satrio, Industrial and System Engineering Department, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 169  Ergonomic Interventions for Designing the Workstation of a Manual and Highly Repetitive Lifting Task in a Paint Industry
Auffa Sumayya, Aqib Iteza Reshad, Nowsheen Sharmil and Muniom Shahriar, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, 1000, Bangladesh

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ID 182  Ergonomic Study for the Design of a Comfortable Office Working Environment for Work from Home Employees  
Jaimelhen M. Avinante, Rose-Ann P. Pasiona, and Danica Myle B. Tibayan, Industrial Engineering Department, Technological Institute of the Philippines – Manila, Philippines  
Janina Elyse A. Reyes, Industrial Engineering Department Technological Institute of the Philippines – Manila, Philippines

ID 748  Safety Behavior Factors of Provisioning Technician  
Atya Nur Aisha, Fida Nirmala Nugraha, and Indi Erndiaiy, Industrial Engineering Department, Telkom University, Bandung, Indonesia

ID 750  Determinants of Human Development Index in Indonesia  
Verawaty, Accounting Department of Economics and Business Faculty, Universitas Bina Dharma, Palembang, Indonesia  
Muji Gunarto, Management Department of Economics and Business Faculty, Universitas Bina Dharma, Palembang, Indonesia  
Rolia Wahasumiah, Accounting Department of Economics and Business Faculty, Universitas Bina Dharma, Palembang, Indonesia

ID 189  Ergonomics Study on Productivity of Middle-Aged Workers in the Shoe Industry  
Carissa Joie C. Hernandez, Rachel G. Llabores and Venusmar C. Quevedo, Industrial Engineering Department, Adamson University Manila, Philippines

8:00 – 9:45 am, SUNDAY  
Session Chair: Selvi Selvi, BINUS University, Indonesia

ID 078  Enhanced Hyper Cube Framework ACO for Structural Combinatorial Optimization Problems  
Ali Ahmad, Thien-My Dao and Van Le, Department of Mechanical Engineering, Ecole de Technologie Superieure ÉTS, Montreal, Canada

ID 806  Design of a Centrifugal Pump for Efficiency Optimization  
A.R. Mataine, Motsi Ephrey Matlakala and Darmy Vandi Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa

ID 844  Desideratum Design of Remotely Piloted Aircraft (RPA) Application in Natural Disaster Management  
Ardjie Matawaran and Marvin I. Nororia, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 904  Innovative Disassembly Sequence Applied to a Virtual Mechanical Reducer  
Gian Maria Santi, Leonardo Frizziero, Alfredo Liverani, Martina Tinuper, and Giampiero Donnici, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 934  Design and Fabrication of Efficient Electromagnetic Braking System for Bangladesh Railway: A Prototype Approach  
Rasjid Uddin Chowdhury, Rafat Mahmud Hridoy, Md. Rafiquzzaman, and Aftab Uddin Sifat, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh

ID 1014  Usability Tool Evaluation using Usability Testing Method at PT Media Dokter Investama (Halodoc Indonesia)  
Selvi Selvi, BINUS University, Indonesia

8:00 – 9:45 am, SUNDAY  
Session Chair: Erlyn Ivy O. Rago, Cebu Institute of Technology – University, Cebu City, Philippines

ID 852  Singapore Airlines: Profit Recovery and Aircraft Allocation Models during the COVID-19 Pandemic  

ID 812  Local Business in Mid of Covid-19 Pandemic: A Prominent Case Study in Bandung, Indonesia  
Velicia Ferren Widijaja, Bina Nusantara University, Indonesia  
Rionald Budianto, Bina Nusantara University, Indonesia  
Doni Purnama Alamasyah, Bina Nusantara University, Indonesia

ID 813  Smart Tourism Experiences: Virtual Tour on Museum  
Tuirida Lily Anita and Lianna Wijaya, Hotel Management Department, Faculty of Economy, Management Department, Faculty of Binus Online Learning, Bina Nusantara University, Jakarta, Indonesia  
Athea Sarastiani, Service Management, Trisakti University, Jakarta, Indonesia

ID 840  Determinant Factors that Affect Manufacturing Sectors Profitability: An Evidence from Consumer Goods Industry, Indonesia  
Sahrial NST, Rasijmah, Ghazali Syamni and Wardiah, Department of Management, Faculty of Economics and Business, Universitas Malikussaleh Bukit Indah, Blang Pulo, Muara Satu, 24355 Aceh Utara, Indonesia  
Hakim Muttaqim, Department of Economics, Universitas Almuslim, Peusangan, 24261 Bireun, Aceh, Indonesia  
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

ID 942  Intelliter: An Android-Based Intelligent Commuting Mobile Application  
Aftab Uddin Sifat, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh  
Kendra L.B. Gadong, School of Computing and Information Systems, Singapore Management University Singapore
March 7, 2021 (Sunday) - Session: 10:00 – 11:45 am

### Decision Sciences

**Room 1**

**10:00 – 11:45 am, SUNDAY**

**Session Chair:** Januar Nasution, Department of Engineering, BINUS University, Indonesia

**ID 793** Crisis of Trust in the Government in Handling COVID-19 in Palopo City  
Ishak Runi, Arif Ferdian, Zulkifli Darwis and Kiki Reski, Social and Political Science Faculty, Andi Djemma University, Indonesia

**ID 707** Determination of distribution center location for paper packaging using Center of Gravity method and Analytical Hierarchy Process  
Sutaji, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia  
Sawarni Hasibuan, Master of Industrial Engineering Program, Universitas Mercu Buana, Jakarta, Indonesia

**ID 746** Supplier selection decision making in the pharmaceutical industry based on Kraljic portfolio and MAUT method: A Case Study in Indonesia  
Yudi Abdillah, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia  
Sawarni Hasibuan, Master of Industrial Engineering Program, Universitas Mercu Buana, Jakarta, Indonesia

**ID 848** Experiential Marketing Analysis of Customer Satisfaction on Wings Air Aircraft User in Namlea City  
Firman Gazali Djunaidi, Universitas Iqra Buru, Indonesia

**ID 849** ARIQA of Sammaniyah Palembang in 1900-1945: Struggle and Game Power of the Tariqa Sammaniyah Scholars in Maintaining the Existence of the Tariqa Sammaniyah  
Rudy Kurniawan, Ph.D Candidate, Graduate Sociology in Faculty of Social and Politic Sciences, Universitas Brawijaya, Indonesia  
Darsono Wisadirana, Sanggar Kanto and Siti Kholtifah, Postgraduate lecturer in Faculty of Social and Political sciences, Universitas Brawijaya  
M Chairul Basrun Umanailo, Universitas Iqra Buru, Indonesia

**ID 1007** The Influence of Social Media and Word of Mouth on Study Program Selection Decisions at Private Universities in Palembang  
Ramadhoni Adam, Students on a Management Study Program, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia  
Muji Gunarto, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia

**ID 892** Inventory policy in Airline Industry  
Januar Nasution, Department of Engineering, BINUS University, Indonesia

### Sustainability and Green Systems

**Room 2**

**10:00 – 11:45 am, SUNDAY**

**Session Chair:** Annista Wijayanayake, University of Kelaniya, Dalugama, Sri Lanka

**ID 345** A Scientometric Mapping of Green Economy Academic Publication  
Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia  
Mega Firdaus, English Language Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia  
Didin Hadi Saputra, Business Administration Department, Universitas Nahdlatul Wathan Mataram, Mataram, Indonesia  
Arya Teja, Information System Department, Universitas Bahaudin Mudhary Madura, Sumenep, Indonesia  
Wulandari Harjanti, Management Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia

**ID 344** Green Accounting Study: Twenty-Seven Years Lesson of Scientometric Mapping  
Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia  
Anita Kartika Sari, Management Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia  
Triana Susanti, Accounting Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia  
Sri Rahayu, Management Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia  
Ravika Ayu Ashari, Information System Department, Universitas Dinamika, Surabaya, Indonesia

**ID 336** Green Marketing Publication: Bibliometric Perspective Mapping  
Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia  
Robertus Tang Herman, Management Department, Bina Nusantara University, Jakarta, Indonesia  
Nur Asitah, Primary Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

**ID 036** Industrial Hemp: The Future of Sustainability  
Praveen Kumar Azad, DTU, Department of Mechanical Engineering, Delhi Technological University (formerly DCE), Rohini, Shahbad Daulatpur, New Delhi, India
### 10:00 – 11:45 am, SUNDAY  
**Entrepreneurship and Innovation**  
**Room 3**

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 110</td>
<td>Tech Startup Failure in India: Do Lifecycle Stages Matter?</td>
<td>Ganesaraman Kalyanasundaram and MH Bala Subrahmanya, Department of Management Studies, Indian Institute of Science, Bengaluru, India</td>
</tr>
<tr>
<td>ID 223</td>
<td>The Aspects of Entrepreneurship and Innovation Development of SMEs</td>
<td>Inese Ratanova, Faculty of Business, Management and Economics, University of Latvia, LV-1586, Raina Blvd. 19, Latvia</td>
</tr>
<tr>
<td>ID 519</td>
<td>The Propensity of a tech startup to approach a financial source: An Analysis of its determinants over the lifecycle</td>
<td>Shivalk Singh, Senior Research Fellow, Department of Management Studies, Indian Institute of Science, Bangalore, India</td>
</tr>
<tr>
<td>ID 376</td>
<td>The Significance of Big Data in the Success of SMEs</td>
<td>Lawrence Seseni, Department of Quality and Operations, University of Johannesburg, Auckland Park, Johannesburg, 2006, South Africa Charles Mbohwa, Department of Quality and Operations, University of Johannesburg, Auckland Park, Johannesburg, 2006, South Africa</td>
</tr>
<tr>
<td>ID 531</td>
<td>The use of computer-generated imagery in socialization media of biopore infiltration hole</td>
<td>Boldson Herdianto, Titoranjai, and Tjut Awaliyah, Computer Science Department, Faculty of Mathematics and Natural Sciences, Universitas Pakuan, Bogor, Indonesia</td>
</tr>
<tr>
<td>ID 535</td>
<td>Using a Multimedia as an Effort to Improve Creative Thinking Skills of Elementary Teacher Education College Student</td>
<td>Yudhie Suchayadi, Nurlinda Safitri, Enis Sutisna, Elly Sukmanasa, Nita Karmila, Santa, Rukmini Handayani, Nintin Nurilea, and Mira Mirawati, Elementary Teacher Education, Universitas Pakuan, Bogor, Indonesia</td>
</tr>
<tr>
<td>ID 751</td>
<td>A Dynamic Business Modelling Approach to Design and Experiment New Successful Business Incubator Model for Indonesia</td>
<td>Lina Gozali, and Hetty Karunia Tunjungsiari, Industrial Engineering Department, Engineering Faculty, Universitas Tarumanagara, Jakarta, Indonesia Teuku Yuri M. Zagaloe, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia Docki Saraswati, Industrial Engineering Department, Universitas Trisakti, Indonesia Benny Tajhono, Industrial Engineering Department, Coventry University, UK</td>
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### 10:00 – 11:45 am, SUNDAY  
**Energy**  
**Room 4**

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>ID 190</td>
<td>An Exploratory Analysis of Household Energy Consumption and Conservation</td>
<td>Paula Mae G. Reyes and Venusmar C. Quevedo, Industrial Engineering Department, Adamson University, Ermita, Manila, Philippines</td>
</tr>
<tr>
<td>ID 621</td>
<td>Analysis of the Performance of Thermoelectric Generators for Ambient Energy Generation through ANSYS Software</td>
<td>Saleh, A. U., Faculty of Electrical and Electronics Engineering, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia and Centre for Atmospheric Research, National Space Research and Development Agency, Prince Audu Abubakar University Anyigba, Kogi, Nigeria S. A. Jumaat, Faculty of Electrical and Electronics Engineering, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia Johar Muhammad Akmal &amp; W. A. W. Jamaludin, Faculty of Mechanical and Manufacturing Engineering, Universiti Tun Hussein Onn Malaysia Johor, Malaysia</td>
</tr>
<tr>
<td>ID 150</td>
<td>Analyzing Feasible Renewable Energy Policies: UAE Electricity Authorities</td>
<td>Mayyas Alsalman, Vian Ahmed &amp; Sara Saboor, Department of Industrial Engineering, American University of Sharjah, Sharjah, United Arab Emirates</td>
</tr>
<tr>
<td>ID 188</td>
<td>Development of a Cereal Grain Drying System Using Internal Combustion Engine Waste Heat</td>
<td>Moses Jeremiah Barasa Kabeyi and Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa</td>
</tr>
<tr>
<td>ID 131</td>
<td>Design and Simulation of a Standalone PV System for a Mosque in NEOM City</td>
<td>Amani Alzahrani, Mashael A. Rajeh, and Shaima Banjar, Energy Engineering, College of Engineering, Effat University, Jeddah, 22332, KSA Tayeb Brahim, Energy and Technology Lab, College of Engineering, Effat University, Jeddah, 22332, Saudi Arabia</td>
</tr>
<tr>
<td>ID 200</td>
<td>Dual Cycle Cogeneration Plant for an Operating Diesel Powerplant</td>
<td>© IEOM Society International 2021 11th Annual Conference 62</td>
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</tbody>
</table>
10:00 – 11:45 am, SUNDAY  Business Management  Room 5
Session Chair: Rajendra Baraiya, Indian Institute of Management, Indore, India

ID 814  An Investigation of Technology Advancement (Use of Smartphones) as Communication Tool in Supporting the Students Learning Style: A Case Study of Public High School, Jakarta, Indonesia
Tri Suryowidianti, Che Hasniza Che Noh, Center for Foundation and Continuing Education, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Jumadi Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 845  The Effect of Local Own-Source Revenue and Capital Expenditure on Economic Growth: An Empirical Evidence from Aceh Province, Indonesia
Mahdawi, Komaidi Notonegoro, Rinaldi Rustam, Department of Economic, Universitas Tri Sakti, Grogol, 11440, Jakarta Barat, Indonesia
Rico Nur Ilham, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
Rapat Piter Sony Hutaunurk, Sri Winda Hardiyanti Damanik, and Aisyah Siregar, Sekolah Tinggi Ilmu Ekonomi Bina Karya Tebing Tinggi, Padang Hulu, Tebing Tinggi, 20631 Sumatera Utara, Indonesia
Jumadi Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 896  Analysis of Hotel Employee Retention Base on Demographic Characteristic during COVID-19 Pandemic in Indonesia
Munawaroh, Edi Abdurachman, Mohammad Hamsal, and Yosef Dedy Pradiptio, Bina Nusantara University, Binus Business School, Doctor in Research Management, Indonesia

March 7, 2021 (Sunday)  - Session: 12:00 – 1:45 pm

12:00 – 1:45 pm, SUNDAY  Undergraduate Student Paper Competition  Room 1
Session Chair: Dr. Aldy Gunawan, Singapore Management University, Singapore

ID 256  Smart School Routing Problem for the New Normality
Carlos M. Leal-Garza and Carlos Gómez-Acosta, Industrial and Systems Engineering Program, University of Monterrey, San Pedro Garza Sada, N.L. México
Jenny Díaz-Ramírez, Engineering Department, University of Monterrey, San Pedro Garza Sada, N.L. México

ID 494  Flowshop Production Scheduling Using the CDS Method, Bat Algorithm, and Genetic Algorithms to Minimize Makespan at PT. Paku Gajah Mas
Tira Natasha and Lina Gozali, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 493  Flowshop Scheduling Using Cds Algorithm, Bat Algorithm, and Tabu Search Algorithm at PT. Dynaplast Jatake
Maria Fatima G. C. E., Lina Gozali, Frans Jusuf Daywin, and Carla Olyvia Doaly, Industrial Engineering Department, Faculty of Engineering, Universitas Tarumanagara, Jakarta, 11440, Indonesia

ID 486  Implementation of Project Management to Develop the AHA.002 Project (Multi Nut Runner Fly Wheel MC for AE 1 Machine) with PERT Method, Gantt Chart and QM for Windows V5 Software at PT. Matahari Megah

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Aurellia Kharisty Tjusila and Lina Gozali, Dept. of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jakarta, Indonesia

**ID 101** Routes Optimization with Cluster-Dependent Costs for Convenience Stores
Francisco Alejandro-Ugarte, Gianna Noemi Cárdenes-de la Fuente and Gloria Catalina García-Martínez, Engineering and Technologies Department, University of Monterrey, San Pedro Garza García, NL 66238, México
Jenny Díaz-Ramírez, Engineering and Technologies Department, University of Monterrey, Nuevo León, México

**ID 555** Supply Chain Risk Management Strategies in the Face of COVID-19
Jia Yi Woong and Shao Hung Goh, School of Business, Singapore University of Social Sciences, Singapore

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12:00 – 1:45 pm, SUNDAY  
**Lean Six Sigma**  Room 2  
Session Chair: Abdussalam Shihabi, Coventry University, Coventry CV1 5FB, UK

**ID 194** Analysis of Grey model for Container Traffic Forecasting at Indian Major Ports
Vipulesh Shardeo, Anchal Patil, Ashish Dwivedi and Jitender Madaan, Department of Management Studies, Indian Institute of Technology Delhi, Hauz Khas, Delhi, India

**ID 051** Application of Lean Six Sigma for Improving the Overall Equipment Effectiveness in a Semiconductor Company in the Philippines
Felix C. Veroya, School of Industrial Engineering and Engineering Management, MAPUA University, Intramuros, Manila 1002, Philippines
Rex Aurelius C. Robielos, School of Industrial Engineering and Engineering Management, MAPUA University, Intramuros, Manila 1002, Philippines

**ID 449** Banish Waste in Warehouse Operations using Lean Matrix
Putu Dana Kamingisih, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Jawa Timur, Indonesia

**ID 055** COVID-19 Surge Planning in Response to Global Pandemic in a Healthcare Setting: A Lean Six Sigma Approach
Pawan Bhandari, Department of Management Engineering and Consulting, Mayo Clinic, Rochester, Minnesota, USA
M. Affan Badar, Department of Applied Engineering and Technology Management, Indiana State University, Terre Haute, Indiana, USA
Vincent Childress, Department of Graphic Design Technology, North Carolina A&T State University, Greensboro, North Carolina, USA

**ID 514** Benefits and Challenges of Implementing Six Sigma “As a Process Improvement Management Strategy”
Abdussalam Shihabi, Associate Professor in Construction and Project Management, Course Director PG Construction Management with BIM School of Energy, Construction and Environment, Coventry University, Coventry CV1 5FB, UK
Hussein Chahine, M.Sc. Construction management, School of Energy, Construction and Environment, Coventry University, Coventry CV1 5FB, UK
Messaoud Saidani, Associate Head of Research School of Energy, Construction and Environment, Coventry University, Coventry CV1 5FB, UK
Dyaar Hassan, Researcher School of Energy, Construction and Environment, Coventry University, Coventry CV1 5FB, UK
Araz Agha, Lecturer in building School of Energy, Construction and Environment, Coventry University, Coventry CV1 5FB, UK
Nawal Gherbal, Engineering business and knowledge management, Coventry CV1 5FB, UK
Marwa Alghodi, Faculty of Science and Engineering, University of Wolverhampton, UK

**ID 1268** Benefits and Applications of Lean Manufacturing Practices in Modern Industrial World
Muhammad Ali Khan, Assistant Professor & PhD Scholar, Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan
Shakeel Ahmed Shaikh, Associate Professor & Co-director (Post Graduate Studies), Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan

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12:00 – 1:45 pm, SUNDAY  
**Operations Management**  Room 3  
Session Chair: M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bangalore-560012, India

**ID 089** Economic Analysis of Liquid Loading Solutions in a Gas Well
Jonathan Francis, Institute of Petroleum Studies, IPS/ IFP School, France and University of Port Harcourt, Port Harcourt, Nigeria
Omowunmi Iledare, Ghana National Petroleum Corporation (GNPC) Professional Chair in Oil and Gas Economics and Management, Institute of Oil and Gas Studies, University of Cape Coast, Cape Coast, Ghana

**ID 590** Effect of Risk Control as Moderator of Relationship Between Government Support, Training, Digital Marketing, Financial Capital and Performance of SMEs in Indonesia
Dede Ansari Guci, Faculty of Economy, Universitas Prima Indonesia, Medan, North Sumatera Province, Indonesia
Dede Ansari Guci, Puspa Liza Ghazali, Salman Lambak and Juliana Arifin, Faculty of Business and Management, Universiti Sultan ZainalAbidin. 21300 KualaNerus, Terengganu,Malaysia
Abdul Taib Ilbon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

**ID 414** Examination of the relationship between Service climate, Employee satisfaction and Organizational performance: A case hospital
Ibrahimu Kidoge, Department of Quality and Operations Management, University of Johannesburg, South Africa

**ID 283** Identification of Employee Behavior through Communication Audit to Evaluate Employee Effectiveness
Theresia Intan Putri Hartiana, Communication Science Department, Widya Mandala Surabaya Catholic University, Surabaya, Indonesia
Lusia Permata Sari Hartanti, Industrial Engineering Department, Widya Mandala Surabaya Catholic University, Surabaya, Indonesia
Larsa Intan Putri Hartani, Industrial Engineering Department, Widya Mandala Surabaya Catholic University, Surabaya, Indonesia
Ig. Jaka Mulyana, Industrial Engineering Department, Widya Mandala Surabaya Catholic University, Surabaya, Indonesia
ID 594  Life Insurance Premiums Dwiguna Joint Life and Last Survivor with Makeham Law
Hasriati, Haposan Sirait, Departemen of Mathematics, Faculty of Mathematics and Natural Sciences, Riau University, Indonesia
Agung Prabowo, Departemen of Mathematics, Faculty of Mathematics and Natural Sciences, Jenderal Soedirman University, Indonesia
Sukono, Departemen of Mathematics, Faculty of Mathematics and Natural Sciences, Padjadjaran University, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 187  Multi-Criteria Decision Methods for the Development of Frameworks for Enhancing Key Parameters of Industrial Performance
Md. Tajul Islam, Md Shamsuzzoha Sarker, and A.R.M. Harunur Rashid, Department of Mechanical and Production Engineering, Islamic University of Technology (IUT), Board Bazar, Gazipur 1704, Dhaka, Bangladesh

ID 043  Observations on New Initial Basic Feasible Solution (IBFS) Methods Published in the Literature for Transportation Problem
M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bangalore-560012, India
M. Vimala Rani, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur-721302, India

12:00 – 1:45 pm, SUNDAY  Maintenance and Reliability  Room 4
Session Chair: Atef M.Ghaleb, Department of Industrial Engineering, College of Engineering, King Saud University, Riyadh, Saudi Arabia

ID 480  The contribution of maintenance to improve the operational performance of an industrial process
Khanfri Nor El Houda, Touaheer Hafed, Ouazaroul Nouara, Simohammed Antar and Bouabdil Djamel, LRPI Laboratory, Health and Occupational Safety Institute, University of Batna-2, Batna, Algeria
Sellami Ilays, Department of Applied Engineering, KasdiMerbahUniversity-Ouargla, Algeria

ID 236  The Status of Hospital Maintenance Management: Result from Survey
Prasetyo Laksono, Gisty Imapraga Melati, Dwri Rtnwulansari, and Faizul Rezy Oenzil, Department of Industrial Engineering, University of Indonesia, Central Jakarta, Indonesia

ID 140  The Status of Maintenance Management in Indonesia: Result from a Pilot Survey Food Snack SMEs
Andri Gandhi, Dwihayu Purwani, Yulia Dwisusandi, and Yunita Prasetya, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 477  Fabrication and Optimization of Smoke Wind Tunnel
Roger Pui Chow Yen, School of Mechanical Engineering, Curtin University of Technology, Sarawak Campus, Sarawak, Malaysia
Sarder Elias Sadique, Alumni, National University of Singapore, 9 Engineering Drive 1, Singapore

ID 218  Job Shop Scheduling Using Shifting Bottleneck Heuristic Algorithm Method
Bobi Tri Tamboto and Dwi Agustina Kurniawati, Industrial Engineering Department, Faculty of Science and Engineering, Universitas Islam Negeri Sunan Kalijaga, Yogyakarta, Indonesia
Noordin Mohd. Yusof and Wong Kuan Yew, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Malaysia

ID 037  Manufacturing Process and Mechanical Properties of Hemp Reinforced PLA Composite: A Review
Praveen Kumar Azad and Rishabh Rathore, Department of Mechanical Engineering, Delhi Technological University, Delhi, India
Department of Production and Industrial Engineering, Delhi Technological University, Delhi, India
Ranganath. M. Singari and Ravi Butola, Department of Mechanical Engineering, Delhi Technological University, Delhi, India
Department of Production and Industrial Engineering, Delhi Technological University, Delhi, India

ID 600  Overview of Hydroforming Research with Bibliometric Indicators
Atef M.Ghaleb, Department of Industrial Engineering, College of Engineering, King Saud University, Riyadh, Saudi Arabia
Wadea Ameen, Industrial Engineering Department, College of Engineering and Architecture, AL Yamamah University, Riyadh-11512, Saudi Arabia
Moath Alatefi, Department of Industrial Engineering, College of Engineering, King Saud University, Riyadh, Saudi Arabia
Abdallah Alrshdan, Department of Mechanical Engineering, College of Engineering, Alfaisal University, Riyadh , Saudi Arabia

12:00 – 1:45 pm, SUNDAY  Operations and Processes  Room 5
Session Chair: Rafat Mahmud Hridoy, Khulna University of Engineering & Technology, Bangladesh

ID 997  A Study of Non-Medical Impact on Mitigation Policy of ASEAN Countries against COVID-19
Amni Zarkasuyi Rahman, Teuku Afzal, Department of Public Administration, Universitas Diponegoro, Semarang, Indonesia
Fendy E. Wahyudi, Department of International Relations, Universitas Diponegoro, Semarang, Indonesia
Widiatarto, Department of Business Administrations, Universitas Diponegoro, Semarang, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 855  A Study of Academic, Practitioner and Accounting Students’ Perception toward Expertise Accounting Forensic using Deductive Analysis: A Case study of Semarang State Universities, Indonesia
Muhammad Wildan Sholih and Imam Prayogo, Diploma of Financial Accounting, Faculty of Vocational School, Universitas Diponegoro PSDUK, Batang, Jawa Tengah 51216, Indonesia
Annisa Qorrot A’yun, Diploma of Strategic Management, Faculty of Vocational School, Universitas Diponegoro PSDUK, Batang, Jawa Tengah 51216, Indonesia
Teuku Afzal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia
### March 7, 2021 (Sunday) - Session: 2:00 – 3:45 pm

**2:00 – 3:45 pm, SUNDAY  Undergraduate Student Paper Competition**

**Room 1**

**Session Chair:** Dr. Aldy Gunawan, Singapore Management University, Singapore

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<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
<th>Institutions</th>
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<tbody>
<tr>
<td>563</td>
<td>Improving a Manual Operated Household Irrigation System for Efficient Operation Using an Irrigation System Controller</td>
<td>TMM Gora and P. B. Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa</td>
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<td>565</td>
<td>Improving the ventilation system of an air-conditioning system in a five-star hotel at Ezulwinini kingdom Eswatini</td>
<td>MT Shabangu and PB Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa</td>
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<td>489</td>
<td>Layout of Raw Material Warehouse in PT. Boga Dimsum Indonesia Using Class-Based Storage Method and Promodel Simulation</td>
<td>Evelyn Adisurya, Lina Gozali, Frans Jusuf Daywin, and Carla Olyvia Doaly, Industrial Engineering Department, Universitas Tarumanagara, West Jakarta, 11140, Indonesia</td>
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<tr>
<td>566</td>
<td>Optimizing the flow rate of water from a chiller system for efficient operation</td>
<td>L. V Motloung and P. B. Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa</td>
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<tr>
<td>781</td>
<td>Diagnosis and music therapy for Autism Children</td>
<td>Johsual Thiveniya Sathiyamoorthy and Gayashini Shyanka Ratnayake, Informatics Institute of Technology, Colombo-06, Sri Lanka</td>
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<td>760</td>
<td>Developing a seawater electric generator by carbon nanotubes from sludge and nanocelluloses from sawdust to be a new alternative energy</td>
<td>Supaporn Klabklaydee, King Mongkut's University of Technology Thonburi, Department of Environmental engineering, Faculty of engineering, Thailand</td>
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**2:00 – 3:45 pm, SUNDAY  Business Management**

**Room 2**

**Session Chair:** Sobhi Mejjaoui, Industrial Engineering Department, Alfaisal University, Riyadh, KSA

<table>
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<th>ID</th>
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<th>Authors</th>
<th>Institutions</th>
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<tbody>
<tr>
<td>331</td>
<td>Company Value Measurement through Intellectual Capital and Firm Size</td>
<td>Meliani Luckieta, Accounting Department, Harapan Bangsa Business School, Bandung, West Java 40132, Indonesia</td>
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<tr>
<td>620</td>
<td>Does Social Media affect Banking Industry Financial Performance in Indonesia</td>
<td>Isfenti Sadalia and Fadli, Department of Management, Universitas Sumatera Utara, 20222 Medan Baru, Medan, Sumatera Utara, Indonesia</td>
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ID 560  Does the Procedural Justice affect Turnover Intention of Academic Staff in Malaysian Research Universities?
Khalil Abakar Moussa Kaya, Department of Business Management, Universiti Tun Hussein Onn Malaysia, Malaysia

ID 617  Examining the Effect of Operating Cash Flow on Financial Distress: An Evidence from Indonesian State-Owned Enterprises (SOEs)
Aminullah Assagaf, Mohd Hassan Che Haat, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 795  One Stop Service: A Way to Reform Public Service
Kasmad Kamal, Muhammad Ardiansyah Makmur, Andi Ni'mah Sulfiani and Syamjaya SM, Faculty of Social and Politic Science, Andi Djemma University, Palopo, South Sulawesi, Indonesia

ID 239  Branch Network Optimization Model following Two Banks Merger
Sobie Mejaoulli, Industrial Engineering Department, Alfaisal University, Riyadh, KSA

2:00 – 3:45 pm, SUNDAY  Quality Control  Room 3
Session Chair: Reem Adel Abdallaha, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, United Arab Emirates

ID 034  Potential effectiveness of quality tools and techniques to introduce Total Quality Management (TQM) in ready-made garment (RMG) manufacturing industries in Bangladesh
Md Mazharul Habib (PhD student), Michele Cano (DoS, Senior Lecturer), Evi Viza, (Sr. Lecturer) and Andishes Bakhshi (Teaching Fellow), Department & University: School of Computing Engineering and Physical Sciences (CEPS), University of the West of Scotland (UWS), Paisley, UK

ID 326  Scrutinizing the Viscosity Measures of Two Formulations of Face Cream Light: An Application of Statistical Quality Control in a Cosmetic Company
Dyan C. Gonzales-Rodriguez, Lawrence C. Alenia, Michaela Marie M. Cruz, and Alexis C. Flores, Industrial Engineering Department, Bulacan State University, City of Malolos, Bulacan, Philippines

ID 483  A Review on Input Features for Control Chart Patterns Recognition
Waseem Aliwan, Adnan Hassan and Nor Hasril Akhmal Ngadiman, Department of Materials, Manufacturing and Industrial Engineering, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310 UTM Skudai, Johor Bahru, Malaysia

ID 324  X-bar control chart patterns identification using Nelson’s run rules
Munawar Zaman and Adnan Hassan, Department of Materials, Manufacturing & Industrial Engineering, School of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai, Johor 81310, Malaysia

ID 378  Service Quality Assessment of an Academic Library in Thailand Using SERVQUAL
Tyas Wahyu Pramesti, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 334  Service Quality Improvement Design for Business Trading License in Electronic Integrated Licensing Service
Kiki Rizki Yunita, M. Dachyar, and Djoko Sihono Gabriel, Industrial Engineering Department, Universitas Indonesia, Indonesia

ID 410  An Application of EWMA Control Chart for Monitoring Packaging Defects in Food Industry
Reem Adel Abdallaha, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, United Arab Emirates
Sohaib Haridyb, Mohammad Shamsuzzaman, and Hamdi Bashird, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah 27272, United Arab Emirates and Benha Faculty of Engineering, Benha University, Benha, Egypt

2:00 – 3:45 pm, SUNDAY  Engineering Education  Room 4
Session Chair: John Paul M. Nieles, Mapua University, Manila, Philippines

ID 274  Foreign Aid Mediates the Relationship between Education and Poverty Reduction Strategy Implementation: Case of Chad republic
Khalil Abakar Moussa Kaya, Department of Business Management, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 185  A Review on Virtual Reality for Architecture Education
Hala Sirror, Amal Abdelsattar, Salma Dwidar and Amany Derbali, Architecture Department, Prince Sultan University, Riyadh, Saudi Arabia

ID 181  A Systematic Review on Disaster Resilience Knowledge for Built Environment Professionals
Nishadi Buddhika Nanayakkara and Menaha Thayaparan, Department of Building Economics, University of Moratuwa, Sri Lanka

ID 116  PC Assembly Instruction with AR on Smartphone App
ID 343  The LogiLegoLab: A Problem-based Learning Approach for Higher Education Institutions  
Jakob Kompatscher, Manuel Woschank, Chair of Industrial Logistics, Montanuniversitaet Leoben, Franz Josef-Strasse 18, 8700 Leoben, Austria  
Corina Pacher, Resources Innovation Center, Montanuniversitaet Leoben, Franz Josef-Strasse 18, 8700 Leoben, Austria

ID 830  Business Intelligence And Sinta Analytics to Improve Indonesian National Research in Education 4.0 Era  
Untung Rahardja, Quorutul Ain, Ninda Lutfiani and Eka Purwama Harapah, Magister of Information Technology Departement, University of Raharja Tangerang, Indonesia  
Era Ayu Nabila, Information System Department, University of Raharja, Tangerang, Indonesia

ID 883  A Case Study on the Pre-Career Activities and Its Effects on the Career Success of College Graduates  
John Paul M. Nielles, Chols Q. Miso, and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

2:00 – 3:45 pm, SUNDAY  
Engineering Management  
Room 5

Session Chair: Abror Hoshimov, Politecnico di Torino, Corso Duca Degli Abruzzi 24, 10129 - Torino – Italy

ID 967  Approaches and Strategies of Upgrading Informal Settlements: Learning from Policy and Practice in the City of Ekurhuleni, Gauteng Province  
Lungani Makhayi, Trynos Gumbo, Eric Makoni and Nischolan Pillay, Department of Town and Regional Planning, University of Johannesburg, South Africa

ID 876  Accident Hotspots Situation and Potential Countermeasures Development in Tunisia  
Ouni Fedy, Department of transportation and logistics, Higher Institute of Transport and Logistics of Sousse. University of Sousse, Sousse, Tunisia  
Mariem ALLOUCH, PhD student, Faculty of Economics Sciences and Management of Sousse, University of Sousse, Tunisia

ID 969  Modeling the Influence of Hazardous Road Section Features on Road Traffic Accident Occurrence in Tunisia  
Attig Ines, Department of Economics, Faculty of Economic Sciences and Management of Sousse, University of Sousse, Tunisia  
Ouni Fedy, Department of Transportation and Logistics, Higher Institute of Transport and Logistics of Sousse, University of Sousse, Tunisia  
Harizi Riadh, Department of Business Administration, University of Bisha, Bisha, Saudi Arabia, College of Business, Bisha, Saudi Arabia

ID 893  Situational Awareness in Indoor Emergency Response for First Responders: A Bibliometirc Approach  
Asep Id Hadiana, Safiza Suhana Kamal Baharin and Zahriad Othman, Center of Advanced Computing Technology (CACT), Faculty of Information and Communication Technology, Universiti Teknikal Malaysia Melaka, Melaka, Malaysia

ID 800  Analysis of Green Supply Chain Management Practice in Oman Hotel Industry  
Buthaina Alqassabi, Ayman Almahrooqi, Aws Alhajri and Sujan Piya, Department of Mechanical and Industrial Engineering, College of Engineering, Sultan Qaboos University, Oman

ID 567  Improving centrifugal pumps seals to prevent leakage during operation  
T. Mphalele and P. B. Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa  
M. Pitac, Department of Mechanical Engineering, Faculty of Engineering and Technology, University of South Africa

ID 564  Improving Dam Capacity Using a Dredger to Remove Sediment and Prevent Environmental Pollution during the Recovery Process  
Khanyisile Mokele and Peter Baonhe Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark, 1900, South Africa

ID 1133  Evaluating the Industry 4.0 Readiness of Manufacturing Companies: A Case Study in Kuwait  
Estabraq Mohammad, Loulwah AlBarakah, Sarah Kudair, and Abdullah S. Karaman, College of Engineering and Technology, Department of Industrial Engineering, American University of Middle East, Kuwait
ID 1153  Optimization for Decision of Funding Project in PT X  
Octa Bimansyah Untoro, Nina Salsabila Sulistiari, Sayyidah Maulidatul Afraah, Qonita Puteri Andrianing Mumtaza, Muhammad Hisjam, and Roni Zakaria Raung, Department of Industrial Engineering, Universitas Sebelas Maret, Jebres, Surakarta, Central Java 57126, Indonesia

ID 1168  Lean Purchasing of MRO Supplies in a Philippine Coal-Fired Power Plant: A Portfolio Thinking Approach  
Marvin I. Noroña, Master in Business Administration, Bachelor of Science in Industrial Engineering, University of the Philippines, Philippines  
Sarah Jane D. Taleon, Master of Engineering – Industrial Engineering, MAPUA University, Philippines

ID 1301  Association Rule Mining for Driving Behaviors and Road Traffic Accidents in Kuwait  
Atheer AlMutairi, Dana AlKandari, Loulwah Shummais, Reem AlAjmi, and Takeaki Toma, Department of Industrial Engineering, American University of the Middle East, P.O.Box: 220 Dasman, 15453 Kuwait

4:00 – 5:45 pm, SUNDAY  
Women in Industry and Academia (WIIA) Panel  
Room 2

<table>
<thead>
<tr>
<th>Panel Chair</th>
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| Dr. Tay Huay Ling  
Senior Lecturer  
School of Business  
Singapore University of Social Sciences |  
|  
| Panel Speakers |  

| Dr. Cheng Ling Tan  
Associate Professor  
Graduate School of Business  
Universiti Sains Malaysia  
Penang, Malaysia | Dr. June Tay  
Head of Digital Media Programme  
School of Science and Technology  
Singapore University of Social Sciences (SUSS)  
Singapore |  
| Ms. Sim Bee Hia  
CEO  
Food from the Heart  
Singapore | FANG Eu-Lin  
PwC Singapore  
Partner, Sustainability & Climate Change Leader |  

4:00 – 5:45 pm, SUNDAY  
Modeling and Simulation  
Room 3

ID 460  A Causality Analysis Framework for Analyzing the Retail Consumer Behavior Change In Covid-19 Pandemic  
Atikah Aghdhi Pratiwi Diesta Iva Mafthuhah, Naning Aranti Wessiani, Sri Gunani Partiwi, and I Ketut Gunarta, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 572  Designing an efficient and stable household Irrigation system  
PB Sob, Department of Mechanical, Engineering, Faculty of Engineering, and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X021, South Africa

ID 588  Designing of Automated Controlled Irrigation System for Domestic Application  
PB Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Pivate BagX021, South Africa

ID 233  Discrete Event Simulation Approach for Container Terminal Loading and Unloading Productivity Evaluation  
Nurhadi Siswanto, and Atika Tri Wahyuningsih, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia

ID 402  Improvement in Harmonic Distortion using Seven level H-Bridge VSI Topology based Dynamic Voltage Restorer  
K Chandrasekaran, Assistant Professor, University Tunku Abdul Rahman, Kampar, Malaysia  
V.K. Ramachandaramurthy, University Tenaga Nasional, Bangi, Malaysia

ID 613  IMPROVING THE PERFORMANCE OF A CHILLER SYSTEM DURING OPERATION  
PB Sob, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private BagX021, South Africa

4:00 – 5:45 pm, SUNDAY  
Supply Chain  
Room 4

ID 301  Evaluation and Selection of Freight Forwarder for Excavator Manufacturer in China with Adjustment on Regional Specification and Situational Analysis Using STEEP-AHP-TOPSIS  
Gerald Giovanni Raditya Gita and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Indonesia

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ID 193  Humanitarian logistics performance improvement model using blockchain approach
Anchal Patil, Vipulesh Shardeo, Ashish Dwivedi and Jitender Madaan, Department of Management Studies, Indian Institute of Technology Delhi, New Delhi, India

ID 457  Hybrid Rice seed supply Chain- SeedWorks Supply Chain innovation
Raja Vadlamani, SeedWorks International pvt Ltd Hyderabad, Telengana, India

ID 401  Implementation Technologies of an Advanced Cloud-based System for Distribution Operations
Sotiris P. Gayialis, Evripidis P. Kechagias, Angeliki Deligianni, Grigorios D. Konstantakopoulos, and Georgios A. Papadopoulos, Sector of Industrial Management and Operational Research, National Technical University of Athens, Zografos, 15780, Greece

ID 461  Influencing Determinants of Halal Land Cross-Border Clearance Operation in Malaysia
Fefiana Azureen Hamdan, Malaysia Institute of Transport, Universiti Teknologi MARA (UiTM), Shah Alam, 40450, Malaysia

ID 423  Location Design of Electric Vehicles Charging Facility: Distance-Based Method Approach
Ananda Vania Arisa Putri, Bachelor Program of Industrial Engineering Dept., Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia

ID 819  A Study of Pedagogical Knowledge and Teaching Creativity among Arabic Language Teachers in Malaysia
Mohammad Rusdi Bin Ab Majid, Institut Pendidikan Guru Kampus Dato' Razali Ismail, 21030 Kuala Terengganu, Terengganu, Malaysia

ID 831  Active Blended Learning in the Teaching of Chinese as Foreign Language: Facing Pandemic Challenge
Goh Ying Soon, Universiti Teknologi MARA Terengganu, 23000 Kuala Dungun, Terengganu, Malaysia

ID 1008  The Effect of Knowledge Management on Employee Performance at Indonesian Private Company
Mahir Pradana, Syarifuddin, Wahyu Ilham Nugroho, Tri Indra Wijaksana, Telkom University, Politeknik Pos Indonesia

ID 959  Transformational Leadership Utilization and Job Stress Analysis to Increase Employee Performance
Dharma Jaya, Mahendra Fakhri, Ida Nurnida, Bachruddin Saleh Luturlean, Alex Winarno, School of Communication and Business, Telkom University, Indonesia

ID 933  The Effect Of E-Service Quality And E-Trust On E-Customer Loyalty Through E-Customer Satisfaction As An Intervening Variable (Study On Gopay Users In Bandung)
Sarah Rahmawaty, Department of Business Administration, Telkom University, Bandung, Indonesia

ID 874  A Review of Patient Satisfaction and Anaesthesia Services Literature: Mini-Review Approach
Muhammad Dwi Satriyanto, Monziahasr As Mohamed, Mohd Yusoff Yusliza, Jumadi Saputra and Zikri Muhammad, Faculty of Business, Economics, and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 1000  Review: Nanofluids Based Coolant Application in Automobile Radiators
Tamzeed Ahmed Alvy, Department of Mechanical and Production Engineering (MPE), Islamic University of Technology, OIC, Bangladesh
ID 701  Electromagnetic Improvement of Interior Permanent Magnet Synchronous Motor for VinFast Escooter V7  
Bui Minh Dinh and Nguyen Quang Dich, DH Bạch khoa Hà Nội, HUST, Vietnam

ID 708  Implementation of sustainable manufacturing in Indonesia paint industry based on triple bottom line  
Gun Nanda Tian Purnama, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia  
Sawarni Hasibuan, Master of Industrial Engineering Program, Universitas Mercubuana, Jakarta, Indonesia

ID 768  Improving Torque Performance of Switched Reluctance Motor By Stator and Rotor Embrace Design  
Bui Minh Dinh, and Dinh Hai Linh, School of Electrical Engineering, Hanoi University of Science and Technology (HUST), Vietnam

ID 867  The Emerging of Dynamic Capabilities for Socially Responsible Operations and Innovation Development in The COVID-19 Pandemic Situation  
Hadi Purnomo, Universitas Gadjah Mada (UGM), Universitas Kristen Immanuel (UKRIM), Indonesia  
Wakhid Slamet Ciptono, Universitas Gadjah Mada (UGM), Indonesia  
Hargo Utomo, Universitas Gadjah Mada (UGM), Indonesia

ID 886  Preparedness of Philippine Aviation in Implementing Automatic Dependent Surveillance – Broadcast (ADS-B) System  
Rosemarie J. Tan and Marvin I. Nororria, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 877  Developing Safety Leadership in Indonesian Power Plant  
Dedy, Department of Health Safety & Environment, PT Pembangkitan Jawa Bali, Surabaya, Indonesia  
Rita Ambarwati, Faculty of Business Law and Social Science, Universitas Muhammadiyah Sidoarjo, Sidoarjo, Indonesia

ID 1038  Analisis Risiko Supply Chain Dengan Model House of Risk (HOR) Pada Digitalisasi Warung Tegal  
Gladysa Valerie, BINUS University - Universitas Bina Nusantara (Binarus). Jabodetabek, Indonesia

6:00 – 7:45 pm, SUNDAY  Business Management  Room 2
Session Chair: Wenny Desty Febrian, Faculty of Business and Social Sciences, Universitas Dian Nusantara, Tanjung Duren, West Jakarta, Indonesia

ID 688  The Moderating Role of Economic Stimulus to the Factors that affect Financial Distress: An Evidence from Jakarta Stock Exchange Listed Companies, Indonesia  
Yoyo Sudaryo, Mohd Hassan Che Haat, Jumadil Saputra, Mohd Yusoff Yusliza and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 698  The Relationship between Human Capital and Co-opetition Strategy in Small Medium Enterprise: Literature Review  
Cucu Wahyudin, Universitas Pendidikan Indonesia, Universitas Jenderal Achmad Yani Cimahi, Indonesia  
Syamsul Hadi Senen, and Rofi Rofaida, Universitas Pendidikan Indonesia

ID 711  Modelling Pro-environmental Behaviour in the Workplace: A Preliminary Study  
Muhd Yusoff Yusliza, Juhari Noor Faezah, Nik Hazimah Nik Mat, Jumadil Saputra, Zikri Muhammad and Aina Syuhaila Muhamad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia  
T. Ramayah, School of Management, Universiti Sains Malaysia, 11800 USM, Penang, Malaysia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

Theresia Marditama, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 723  A Review of Determinant Factors that Affect Purchase Decision and Consumer Satisfaction Literature  
Supana, Monizaihasra Mohamed, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 727  A Review of Customer Lifetime Value, Marketing Mix and Brand Equity Literature  
Nikriik Ahmad Munawar, Monizaihasra Mohamed, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 728  Analysing the Effect of Job Satisfaction, Work Discipline, Motivation and Competency on Employee Performance: An Evidence from Indonesia Fire Department  
Wenny Desty Febrian, Faculty of Business and Social Sciences, Universitas Dian Nusantara, Tanjung Duren, West Jakarta, Indonesia  
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

6:00 – 7:45 pm, SUNDAY  Undergraduate Research Competition  Room 3
ID 276  CAD Aided Pre-operative Planning and Prototyping of Cubitus Varus Cutting Guide
Leonardo Frizziero, Gian Maria Santi, Giampiero Donnici, Alfredo Liverani, Francesca Napolitano, Paola Papaleo and Curzio Pagliari, Alma Mater Studiorum University of Bologna, Department of Industrial Engineering, Universitas Tarumanagara, West Jakarta 11440 Jakarta, Indonesia
Agustinus Puma Irawan, Industriengineering, Universitas Tarumanagara, West Jakarta 11440 Jakarta, Indonesia

ID 275  CAD Aided Pre-Operative Planning and Prototyping of Orthopaedic Femoral Cutting Guide
Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Paola Papaleo, Francesca Napolitano and Curzio Pagliari, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, BO 40136, Italy
Giovanni Trisolino, Elena Maredi, Stefano Stilli, Giovanni Luigi Di Gennaro, Paola Zaranontello and Stefano Stallone, IRCSS—IOR—Rizzoli Orthopaedic Institute, Pediatric Orthopaedics and Traumatology, Bologna, BO 40136, Italy

ID 277  CAD-Aided Preoperative Simulation in Complex Orthopaedic Surgery
Leonardo Frizziero, Curzio Pagliari, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Paola Papaleo and Francesca Napolitano, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, BO 40136, Italy
Giovanni Trisolino, Paola Zaranontello, Giovanni Luigi Di Gennaro, Elena Maredi, Stefano Stilli, and Stefano Stallone, IRCSS-IOR—Rizzoli Orthopaedic Institute, Pediatric Orthopaedics and Traumatology, Bologna, BO 40136, Italy

ID 512  Design of Working Shelf And Design of Layouts on the Working Table with Ergonomic Analysis in Haiso Coffee
Fernando Valentino, Frans Jusuf Daywin, Adianto, Lina Gozali, and Carla Olyvia Doaly, Industrial Engineering Department, Universitas Tarumanagara, West Jakarta 11440 Jakarta, Indonesia
Agustinus Puma Irawan, Universitas Tarumanagara, West Jakarta 11440 Jakarta, Indonesia

ID 487  Improving the Capacity of Espresso Machine Using Reverse Engineering Method and VDI 2221 Method
Claudia Jessica Atmadja, Frans Jusuf Daywin, Lina Gozali, and Carla Olyvia Doaly, Industrial Engineering Department, Tarumanagara University, Jakarta, Indonesia
Agustinus Puma Irawan, Mechanical Engineering Department, Tarumanagara University, Jakarta, Indonesia

ID 491  Modification Design of Melanger Machine with Reverse Engineering Method and VDI 2221
Kezia Natalia Santos, Frans Jusuf Daywin, Adianto, Lina Gozali, Carla Olyvia Doaly, and Agustinus Puma Irawan, Industrial Engineering Department, Universitas Tarumanagara, West Jakarta 11440 Jakarta, Indonesia

ID 490  Modification of Chocolate Grinder Machine Cone Type Using Reverse Engineering Method and Vdi 2221 Method
Jeshua Ekklesia, Frans Jusuf Daywin, Adianto, Lina Gozali, Carla Olyvia Doaly and Agustinus Puma Irawan, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 749  Green Supply Chain Operations Reference (G-SCOR): An Application for Small Garment Manufacturers in the Philippines
Valerie D. Cruz, Josephine D. German, and Mary Elaine G. Fenix, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 859  An Ergonomic Intervention on Metal Fabrication Workstations to Minimize the Risk of Developing Work-related Musculoskeletal Disorders
Samantha Nicole C. Alanano, Johna C. Ferolino, Juan Miguel A. Miranda, and Justine Ray V. Palattao, and Hazel A. Caparas, Industrial Engineering Department, Bulacan State University, City of Malolos, Bulacan, Philippines

ID 895  Lean Manufacturing Practices and Their Effect on Sustainability Performance: Insight from Selangor Manufacturing Industry
Woei-Xiang Tan, Department of Production and Operations Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia
Norasmiha Mohd Nor, Department of Production and Operations Management, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia

ID 1119  Industry 4.0 Smart Predictive Maintenance in the Oil Industry to Enable Near-Zero Downtime in Operations
Wejdan Al-Subaiei, Esraa Al-Herz, Wadhha Al-Marri, Rawan Al-Otaibi, Hessah Ashyan, and Hadi Jaber, College of Engineering and Technology, American University of the Middle East, Kuwait

ID 1169  Developing Information System of Remnant Product Using Waterfall Method with Macro Microsoft Excel
Benedicta Amadea Karena Dewi, Ryan Adesta Yudhatama, Veny Mandalasi, Kartiko Alfa Kusriandi, Cucuk Nur Rosyidi, Muhammad Hisjam, and Roni Zakaria Raung, Department of Industrial Engineering, Universitas Sebelas Maret, Jember, Surakarta, Central Java 67126 Indonesia

ID 1222  Examining Adoption of Smart Digital Marketing among Auto Car Dealers in Miri City, East Malaysia
Yap Gui Yik and Mehran Doulatabadi, School of Management and Economics, Xiamen University Malaysia, Sepang, Selangor, Malaysia
ID 767  Improve Quality Aircraft Simulation Training in Indonesia using DMAIC Six Sigma Methods
Danang Ary Yunanto, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia
Hasbullah, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia
Sawarni Hasibuan, Master of Industrial Engineering Programme, Universitas Mercubuana, Jakarta, Indonesia

ID 769  A Review of the Driving Factors that affect Job Performance Literature: A Mini-Review Approach
Nunuh, Mohd Yusoff Yusliiza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 773  An Investigation of Psychological and Spiritual Wellbeing among Costal Community in Terengganu, Malaysia
R Zirwatul Aida R Ibrahim, Jumadil Saputra, Mazidah Mohd Dagang, Madihah Mohamad Shukri, and Rosyidah Muhamad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 777  The Influence of Work Motivation and Organizational Culture to Employee Performance
Syardiansah, Abdul Latief and Jefri Ramadansyah, Management Study Program, Faculty of Economics, Universitas Samudra, Aceh, Indonesia
Hadion Wijoyo, STMIK Dharmaapala Riau, Indonesia
Ahmad Prayudi, Management Study Program, Faculty of Economics and Business, Universitas Medan Area, North Sumatra, Indonesia
Riyani Sisawian Putra, Universitas Nahlmatul Ulama Surabaya, Indonesia
Musnaini, Universitas Jambi, Indonesia

ID 780  Implementation of Consolidation Strategy to Improve Procurement Performance in Government Hospital (A Case Study: Joglosemar Central Vertical Hospital)
Hery Suliantoro, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Indonesia
Kirana Rukayasri Nithirth, Research Centre for Policy and Management of Sciences, Technology and Innovation, Indonesian Institutes of Sciences, Jakarta, Indonesia
Sultan Arunial, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

ID 406  Modeling the volatility of four Mediterranean stock markets
SaoussanBouchareb, Mohammadia School of Engineering, Mohammed V University, Rabat, Morocco

6:00 – 7:45 pm, SUNDAY  Senior Design Project / FYP Competition  Room 5
Session Chairs: Mr. Chee Wai Meng and Dr. Dixon So Lok Kan, Singapore University of Social Sciences, Singapore

ID 507  An Ergonomic Approach to Design Restaurant Dinning Table During the Covid-19 Pandemic for Indonesian Society
Monica Aprillita, Cherry Almoodjo, Michael Kartawijaya, Nicholas Adrian, Frans Jusuf Daywin, Lina Gozali, Adianto and Agustinus Purna Irawan, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 505  The Design of an Ergonomic Public Trash Bin for COVID-19 Medical Mask Waste
Stevie Joes, Caroline De Candra, Herwin Larsen, Dennis Marchello, Frans Jusuf Daywin, Lina Gozali, Adianto, Ahmad, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 506  The Design of Instant Desk Cleaner for Public Facilities during Pandemic Era
Stiven Tjen, Theodorus Henderson, Vanessa Angelica Budiono, Nicolas Reynaldo, Frans Jusuf Daywin, Lina Gozali, Adianto, Ahmad, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 1156  The Healthcare-Planning Problem with Treatment Team (Physician/Nurse) Consistency
Nasser Khafan Al-Wahabhi, Abdulaziz Khafan Al-Mamari, Qbas Salah Al-Rawas and Nasr Al Hinai, Sultan Qaboos University, Oman

ID 1170  Designing an Inventory Information System at PT.X
Muhammad Faishal Tharqi, Akbar Rizal Nurhidayat, Salsabilla Fajjar Kur’anita, Sivriti Kusumaning Ayu, Cucuk Nur Rosyidi, Muhammad Hisjam, and Roni Zakaria, Department of Industrial Engineering, Universitas Sebelas Maret, Jebres, Surakarta, Central Java 57126, Indonesia

ID 1129  An Integrated Project Design for Improving the Performance of Small and Medium Enterprise: A Case Study for SME Mushroom
Sakinah, Dian Aprilia Larasati, Mohammad Brillian Wicaksana Sukana, and Ranu Tri Widodo, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Muhammad Hisjam, and Roni Zakaria Raung, Lab. of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia

ID 1176  Proposed Design of Ergonomic Roof Tile Transportation Equipments in Bekonang Roof Tile Company
Amirul Wika Rosida, Dwi Puji Astuti, Farhan Al Azhar Widayatputra, Sidya Puspitasari, R. Hari Seyanto, Muhammad Hisjam, and Roni Zakaria, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 1190  Determination Passenger Satisfaction of a Kuwait Airline Company by Using Multivariate Data Analysis Models
Ayat Dashti, Danah AliAhmad, Eman AliShamieri, Rawan AliAljain, Zainab AliAmeer, and Recep Kizilaslan, College of Engineering and Technology, American University of Middle East (AUM), Kuwait

ID 129  Improving Waste Collection & Transportation System at Tadweer
Khadija Alhumoud, Shamma Al-All, Roudha Alattar, and Khalid Alhosani, Department of Industrial and Systems Engineering, Khalifa University, Abu Dhabi, UAE
March 7, 2021 (Sunday) - Session: 8:00 – 8:45 pm

KEYNOTE

Dr. Mario Fargnoli
Technical Director, Italian Ministry of Agriculture
Contract Professor at Faculty of Civil and Industrial Engineering
Sapienza University of Rome, Italy

ID 1307  Design for Safety and Human Factors in Industrial Engineering: A Review towards a Unified Framework
Mario Fargnoli, DICMA, Faculty of Civil and Industrial Engineering, Sapienza University of Rome, Rome, Italy and Department of Rural Development, Ministry of Agriculture, Food and Forestry Policies, Rome, Italy

March 7, 2021 (Sunday) - Session: 9:00 – 10:30 pm

9:00 – 10:30 pm, SUNDAY  Modeling and Simulation  Room 1

Session Chair: Pramot Thongman, School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

ID 251  Mathematical Modeling and Analysis the Effect of Smoking for the Dynamics of Lung Cancer
Jobayer Ahmed and Md. Haider Ali Biswas, Mathematics Discipline, Science, Engineering and Technology School, Khulna University, Khulna-9208, Bangladesh

ID 151  Mathematical Modeling and Optimal Control Strategies for the Treatment of Breast Cancer
Tahera Parvin and Md. Haider Ali Biswas, Mathematics Discipline, Science Engineering and Technology School, Khulna University, Khulna-9208, Bangladesh

ID 160  Metamodeling in Manufacturing Systems: Literature Review and Trends
Chiara Raith, Manuel Woschank, and Helmut Zsifkovits, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

ID 222  Modeling Electricity Tariff Scheme for Gas Engine Power Plant by Considering Operation Risks
Nurhadi Siswanto, Firda Nur Rizkiani, and Stefanus Eko Wiratno, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia

ID 472  Thermal Simulation and Experiment Evaluation of Active Antenna Unit AAU 5G/RRU 4G
Bui Minh Dinh, Nguyen Chi Cong, HUST, Hanoi, Vietnam

ID 133  Production Sequence Using Simulation Techniques: Case Study of Mineral Production Plants for Dairy Cow
Pramot Thongman and Nara Samattapapong, School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand
Vorasiri de Cadenet, School of Environmental Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

9:00 – 10:30 pm, SUNDAY  Supply Chain  Room 2

Session Chair: Kosha Joshi, Department of Management Studies, Indian Institute of Science, Bengaluru, India

ID 421  Charging Station Network Design for E-Motorcycle: A Case Study
Era Febriana Aqidawati, Master Program of Industrial Engineering Dept., Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Rheza Aulia Ramadhan, Bachelor Program of Industrial Engineering Dept., Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia

ID 338  Design Model for Transportation Mode Selection of Imported Goods according Cargo Type at Construction Company
Ririn Dewi Cahyani, M. Dachyar, and Farizal, Industrial Engineering Department, Universitas Indonesia, Indonesia

ID 339  Design Process of Supply Chain Management at Aircraft Maintenance Company for Spare Part Turnover Improvement
Ananda Kusuma Wardhana, M. Dachyar, and Farizal, Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 207  Effective Supplier Selection Using ANP
H.I. Udakanjalee, D.H.H. Niwunhella, and A.N. Wijayanayake, Department of Industrial Management, University of Kelaniya, Dalugama, Sri Lanka

ID 945  Warehouse Optimization using Generalized Reduced Gradient (GRG) Method
Sadna Dissanayake, Hayleys Advantis Limited, Colombo, Sri Lanka
ID 085 Development of Solution Methodologies for Online Order Fulfillment in Omnichannel Retailing
Kosha Joshi and M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bengaluru, India

9:00 – 10:30 pm, SUNDAY Product Design and Development Room 3
Session Chair: Leonardo Frizziero, Alma Mater Studiorum University of Bologna, Bologna, Italy

ID 374 Application of Computer Vision in Pipeline Inspection Robot
Oyekola Peter Olutwasin, Department of Mechanical Engineering, Papua New Guinea University of Technology, Somade Kolawole, MTN Nigeria
Shoeb Ahmed Syed and Owen Apis, Department of Mechanical Engineering, Papua New Guinea University of Technology, Papua New Guinea

ID 361 Augmented Reality Enabling Disassembly Sequence Planning
Daniela Francia, Leonardo Frizziero, Alfredo Liverani, Giampiero Donnici, and Nicoletta Dalledonne, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 162 Design Climatic Treatments and Environmental Needs in Hot Areas
Salma Dwidar, Amal Abdelwassit, Amani Derballi and Hala Sirror, Architecture Department, Prince Sultan University, Riyadh, KSA
Donia Abdelgawad, Architecture Department, College of Fine Arts, Alexandria University, Egypt

ID 253 Design for Six Sigma (DFSS) and Industrial Design Structure (IDeS) for a New Urban Sustainable Mobility
Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Daniela Francia, Davide Bolzani, Lorenzo Golinelli, and Federica Marchi, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 267 Disassembly Sequence for Hydraulic Pump using Disassembly Geometry Contacting Graph in Augmented Reality Environment
Gian Maria Santi, Alfredo Liverani, Giampiero Donnici, Edoardo Croati, and Leonardo Frizziero, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 763 Using Anova for Optimizing Thermal Profile Process in Assembly Line of Printed Circuit Boards (PCB)
Kamal Alzameli, Design Multimedia System Engineer, Doctor of Engineering in Manufacturing Systems, Research and Vehicle Technology, Ford Motor Company, Lawrence Technological University, USA
Ahmed Alsamarai, Senior Electrical Engineer, Product Development Center, Ford Motor Company, MI, USA

ID 103 A Framework to Develop and Evaluate Circular Economy Readiness within the Rail Sector
Carl Waring, College of Science and Engineering, University of Derby, Derby, DE22 3AW, UK
Kapila Liyanage, College of Science and Engineering, University of Derby, Derby, DE22 3AW, UK

9:00 – 10:30 pm, SUNDAY Green and Waste Room 4
Session Chair: Bupe G Mwanza and Erastus M Mwananumo, University of Zambia, Zambia

ID 929 Plastic Recycling from Municipal Solid Waste in Jashore City of Bangladesh
Md. Firoz Kabir, and Md. Ariful Alam, Department of Industrial and Production Engineering, Bangladesh Army University of Science and Technology, Saidpur, Bangladesh

ID 977 Governance Mechanisms for Managing Municipal Solid Waste: A Review
Kachiwoli W Banda, Bupe G Mwanza and Erastus M Mwananumo, University of Zambia, Zambia

ID 847 Green Technology for Extracting Coffee Oil and Biodiesel Production: An Application of Spent Coffee Ground Management Approach
Erdawati and Elsa Vera Nanda, Department of Chemistry Education, Faculty of Mathematics and Sciences, Universitas Negeri Jakarta, Jakarta Timur, Daerah Khusus Ibukota Jakarta 13220, Indonesia
Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia
Shamsul Bahri Abd Razak, Faculty of Fisheries and Food Science, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 966 A Non-Disruptive Ecological Innovation on Concrete Block Manufacturing: A Product Viability Study for the Philippine Construction Industry
Ephraim Ryan Joya, Arnel Buan Jr., and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 871 A Review of Green Marketing Strategy Literature: Mini-Review Approach
Ryan Firdiansyah, Monicaelshara Mohamed, Mohd Yussof Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 952 A Review of Green Accounting, Corporate Social Responsibility Disclosure, Financial Performance and Firm Value Literature
Maria Luisiana, Mohd Hassan Che Haat, Jumadil Saputra, Mohd Yussof Yusliza, and Zikri Muhammad, Universiti Malaysia Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia

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ID 885  Selection of a Sustainable Municipal Wastewater Treatment Technology: A Multi-Criteria Decision Analysis Approach Using AHP and TOPSIS with Fuzzy Sets
Nico Bautista Carlos and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Muralia St., Intramuros, Manila

9:00 – 10:30 pm, SUNDAY  Operations Management  Room 5
Session Chair: M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 1015  A Review of Pilot Performance Literature: Mini-Review Approach
Ludwig Bayu, Mohd Yussof Yusliza, Jumadi Saputra, and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1024  Analysis of Completeness Products and Prices on Decision of Buying ATK (Office Stationery) at UD. Pemancar Ilmu Store in Namlea City
Firman Gazali Djunaidi, Universitas Iqra Buru, Indonesia

March 8, 2021 (Monday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, MONDAY  Graduate Student Paper Competition  Room 1
Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 139  Outsourcing Life Cycle Model for Financial Services in the FinTech Era
Tristan Lim, School of Business Management, Nanyang Polytechnic, Singapore
Patrick Thng, School of Information Systems, Singapore Management University, Singapore

ID 265  Application of Multiple Criteria Decision-making Methods in the Human Resource Recruitment Process
Maela Madel L. Cahigas, Master of Science in Industrial Engineering, Mapúa University, Manila, Philippines
Rex Aurelius Robielos, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 382  Value Drivers in Product-Service Systems: An Empirical Study of Two Sharing Business Models
Suzana Regina Moro, Post-graduate Program in Production Engineering, Federal University of Santa Catarina, Florianópolis, SC, Brazil
Paulo Augusto Cauchick-Miguel, Department of Production and System Engineering, Post-graduate Program in Production Engineering, Federal University of Santa Catarina, Florianópolis, SC, Brazil

ID 1130  Impact of Cultural Behavior on the Bullwhip Effect in the COVID-19 Pandemic
Thais de Castro Moraes, Department of Industrial Systems Engineering and Management, National University of Singapore, Singapore
Xue-Ming Yuan, Singapore Institute of Manufacturing Technology, Agency for Science, Technology and Research - A*STAR, Singapore

ID 1172  A Content Analysis of Closed-Loop Supply Chain Optimization for End-of-Life Vehicle Recycling
Fatin Amrina A.Rashid, Hawa Hishamuddin, Mohd Radzi Abu Mansor, and Nizaroyani Saibani, Department of Mechanical & Manufacturing Engineering, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, Selangor, Malaysia
IEOM Singapore Conference  PARALLEL SESSIONS  March 7-11, 2021

8:00 – 9:45 am, MONDAY  Business Management  Room 3
Session Chair: Jumadil Saputra, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 272  A Confirmatory Analysis on the Enterprise Risk Management Factors on the Malaysian Mtun Universities’ Performance
Saleh Nasser Abdullah Al-Subani, Rumaizah Ruslan, and Shafie Bin Mohamed Zabri, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia

ID 615  A Mini Review of Islamic Stock Market Literature
Anwar Puteh, Jumadil Saputra and Zairihan Abdul Halim, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 574  A Qualitative Study of E-Commerce Growth during Corona Virus Disease (COVID-19) Pandemic in Indonesia
Syamruddin and Ivan Putranto, Department of Management, Faculty of Economics, Universitas Pamulang, Kota Tangerang Selatan, Indonesia

ID 573  A Review of Sustainable Green Finance Literature: Mini-Review Approach
Fathihani, Jumadil Saputra, Mohd Hassan Che Haat, Mohd Yusof Yusliza and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 333  A Study of Green Management Literature through Bibliometric Positioning during Four Decades
Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia

ID 557  An Investigation of Employees Engagement and Malaysian Female Employees’ Performance
Siti Nor Adawiyah Azzahra Kamaruddin, Jumadil Saputra, Mohd Yusof Yusliza and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 554  Analysing the Relationship between Supportive Work Environment and Employee Retention
Mohd Yusof Yusliza, Juhari Noor Faezah, Jumadil Saputra, and Marhana Mohamed Anuar, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 575  An Investigation of Employees Engagement and Malaysian Female Employees’ Performance
Siti Nor Adawiyah Azzahra Kamaruddin, Jumadil Saputra, and Marhana Mohamed Anuar, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 554  Analysing the Relationship between Supportive Work Environment and Employee Retention
Mohd Yusof Yusliza, Juhari Noor Faezah, Jumadil Saputra and Marhana Mohamed Anuar, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
ID 624  Location Design of Electric Vehicles Charging Facility: Distance-Based Method Approach
Ananda Vania Arisa Putri, Bachelor Program of Industrial Engineering Dept., Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia
Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, and Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 710  Hurricane Evacuation Decision Model in a Stochastic Dynamic Network
Ketut Gita Ayu, Industrial Engineering Department, BINUS University, Jakarta, Indonesia
Pitu Mirchandani, School of Computing, Informatics, and Decision Systems Engineering, Arizona State University, Tempe, AZ 85281, USA

ID 730  A Three-Level Supply Chain of Self-Healing Packages Considering Direct and Indirect Carbon Emission of Industrial and Transportation Cost
Ardivin Kesler S. Onga, Axel Isidry R. Conventob, and Gabriel Josh D. Fradasb, Vince Louis M. Sumerab, Young Innovators Research Center, Mapúa University, Manila, Philippines, 658 Muralla St., Intramuros, Manila 1002, Philippines

ID 869  A Decision Process for the Applications of Artificial Intelligence in Sustainable Operations and Supply Chain Management
Reza Akbar Muhammad, Benny Tjahjono, Babul Salam KSM Kader Ibrahim, and Sri Rachmi Karimah Dewi Ridlo, Coventry University, Coventry, UK
Tri Yogi Yuwono, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 992  A Review on Integrated Supply Chain Performance Measurement System Concerning Industry 4.0: A developing world perspective
Sadaf Zahoor, Department of Mechanical, Automotive, and Materials Engineering, University of Windsor, Windsor, N9B 3P4, Canada
Khizer Hayat, Department of Industrial and Manufacturing Engineering, University of Engineering and Technology, Lahore, Pakistan
Mohammed Shaker, University of Michigan, MI 48109, United States
Muhammad Zain Zahoor, Department of Industrial and Manufacturing Engineering, University of Engineering and Technology, Lahore, Pakistan

ID 856  Sustainable Supply Chain Network Design of Electric Vehicle Battery Recycling - A Case Study
Silvi Istiqomah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Muhammad Hisjam, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 865  LPG Delivery Sequencing for Real-Time Continuous Incoming Purchasing Orders
Arrayaporn Teekaputti, Program in Logistics Engineering and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand
Nivit Charoenchai, Excellence Center in Logistics and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand

ID 951  The Influence of Uniqueness of Resources on Competitive Advantage in Private Higher Education
Sarman Sinaga, Faculty of Business and Economics, Universitas Darma Agung, Petisah Hulu, Medan Baru, 20153 Sumatera Utara, Indonesia
Mahdawi, and Trionyo, Department of Economic, Universitas Trisakti, Grogol, 11440, Jakarta Barat, Indonesia
Khatijah Omar, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 943  Understanding the Digital Payment Services through User Experience during the Pandemic Era
Dian Kurnianingrum1 Mulyani, Entrepreneurship Department, Bina Nusantara University, Bandung Campus, Bandung, Indonesia
Meiliani Luckieta, Accounting Department, Harapan Bangsa Business School, Bandung, Indonesia

ID 947  Analyzing the Company's Performance through Financial Statements: An Application of the Du Pont Method
Mohd Sophian and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Khatijah Omar, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Syawal Harianto, Politeknik Negeri Lhokseumawe, Buketratea, Biang Mangat, 24301 Kota Lhokseumawe, Aceh 24301, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 950  A Review of Employees' Well-being, Psychological Factors and Its Effect on Job Performance Literature
Muji Gunarto, Faculty of Economics and Business, Bina Darma University, Palembang, INDONESIA
Muji Gunarto, Faculty of Economics and Business, Bina Darma University, Palembang, Indonesia

ID 954  A Review of Employees' Well-being, Psychological Factors and Its Effect on Job Performance Literature
Mohd Sophian and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Khatijah Omar, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 942  Understanding the Digital Payment Services through User Experience during the Pandemic Era
Dian Kurnianingrum1 Mulyani, Entrepreneurship Department, Bina Nusantara University, Bandung Campus, Bandung, Indonesia
Meiliani Luckieta, Accounting Department, Harapan Bangsa Business School, Bandung, Indonesia

ID 937  Analyzing the Company's Performance through Financial Statements: An Application of the Du Pont Method
Mahdawi, and Trionyo, Department of Economic, Universitas Trisakti, Grogol, 11440, Jakarta Barat, Indonesia
Khatijah Omar, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Syawal Harianto, Politeknik Negeri Lhokseumawe, Buketratea, Biang Mangat, 24301 Kota Lhokseumawe, Aceh 24301, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 951  The Influence of Uniqueness of Resources on Competitive Advantage in Private Higher Education
Sarman Sinaga, Faculty of Business and Economics, Universitas Darma Agung, Petisah Hulu, Medan Baru, 20153 Sumatera Utara, Indonesia
Mahdawi, and Trionyo, Department of Economic, Universitas Trisakti, Grogol, 11440, Jakarta Barat, Indonesia
Khatijah Omar, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

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ID 955  
**A Review Literature of Consumer Behaviour Marketing Mix and Demography Analysis: A Mini-Review Approach**

Elly Watti Noorhan and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

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### March 8, 2021 (Monday) - Session: 10:00 – 11:45 am

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>375</td>
<td>Ferromagnetic climbing robot for industrial flaw detection: An implementation of computer vision</td>
<td>Peter Oyekola, Department of Mechanical Engineering, Papua New Guinea University of Technology, Papua New Guinea</td>
</tr>
<tr>
<td>1117</td>
<td>Hazard Risk Potential Analysis Using the Fuzzy Bow-Tie Method in LPG Tube Filling Factory</td>
<td>M. Fadi Perdana, Bambang Syairiudin and Retno Widyaningrum, Departemen Teknologi Industri, Institut Teknologi Sepuluh Nopember, Indonesia</td>
</tr>
<tr>
<td>1150</td>
<td>Sustainable Supply Chain Management Practices in Malaysian Non-Manufacturing Sectors</td>
<td>Hak Kenn Wong and Mehran Doutalabadi, MBA Center, Xiamen University Malaysia, 43900 Sepang, Selangor, Malaysia</td>
</tr>
<tr>
<td>1204</td>
<td>Kawaii Analysis on Education-Based Online Games on User Behavior (Case Study: Jalasi 2 Application)</td>
<td>Purwati, Adithya Sudiarno and Erwin Widodo, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, East Java, Indonesia</td>
</tr>
<tr>
<td>835</td>
<td>Performance Analysis of RSS-Fingerprinting Localization for Multi-floor Environment Using Random Forest Algorithm</td>
<td>Khaing Myat Thu, Department of Information Technology, Yangon Technological University, Yangon, Myanmar</td>
</tr>
<tr>
<td>255</td>
<td>Analysis of the Conditions for Quality in Cold Transport Services</td>
<td>Alejandro Lerma Carrillo and Jenny Díaz Ramírez, Engineering Department, University of Monterrey, San Pedro Garza García, N.L., México</td>
</tr>
</tbody>
</table>

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### 10:00 – 11:45 am, MONDAY

**IoT**

**Room 2**

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>308</td>
<td>Design of Internet of Things Technology Selection for Psychotherapy Services in Psychiatric Hospital</td>
<td>Siti Aisyah, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia</td>
</tr>
<tr>
<td>306</td>
<td>Priority Design of the Telehealth-based Internet of Things Implementation for Hospital Pulmonology Unit</td>
<td>Alya Nabilah Suksma, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia</td>
</tr>
<tr>
<td>313</td>
<td>Refrigerated Container Handling Process Design Improvement in Container Terminal through the Implementation of Internet of Things (IoT) Using Business Process Reengineering Approach</td>
<td>Nadiyah Nisa Azzahra, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia</td>
</tr>
<tr>
<td>170</td>
<td>Trust Based Internet of Things (IoT) System</td>
<td>Laxmi Pandit, MBA (IT and Operations), ICFAI Business School, Hyderabad, ICFAI Foundation for Higher Education University, India</td>
</tr>
<tr>
<td>379</td>
<td>The Impact of Digital Technology and Industry 4.0 on Enhancing Supply Chain Resilience</td>
<td>Elham Taghizadeh, Department of Industrial and System Engineering, Wayne State University, Detroit, MI 48035, USA, Elaheh Taghizadeh, Quality Assurance and Process Analyst, Saman Electronic Payment (SEP), Tehran, Iran</td>
</tr>
</tbody>
</table>

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### 10:00 – 11:45 am, MONDAY

**Case Studies**

**Room 3**

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>562</td>
<td>A Study of English Literacy Implementation Challenges among Primary School Teachers in Kelantan, Malaysia</td>
<td>Norfazila binti Ghazali and Mustafa Che Omar, Faculty of Islamic Contemporary Studies, Universiti Sultan Zainal Abidin, Gong Badak, 21300, Terengganu, Malaysia</td>
</tr>
<tr>
<td>511</td>
<td>Accountability And Integrity System: An Empirical Assessment of Indonesian Local Government</td>
<td>Mudrifah, Department of Accounting, University of Muhammadiyah Malang, Jawa Timur, Indonesia</td>
</tr>
<tr>
<td>109</td>
<td>Airport check-in counters assignment using predicted passenger load: A Case Study</td>
<td>Md. Akhmed, Department of Production and Operation, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia</td>
</tr>
</tbody>
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MA Nang Laik, Associate Professor, School of Business, Singapore University of Social Sciences, 461 Clementi Road, Singapore 599491
Murphy Choy, Heriot-Watt University, Edinburgh Business School, Edinburgh, Scotland, United Kingdom

ID 075  A ASDP Ship Conversion Into Suramadu River Cruise
Agum Setyo Bintoro, Refiantika Rachma Utami, and Suci Amalia Purti, Departement of Marine Transportation Engineering, Faculty of Marine Technology, Institut Teknologi Sepuluh Nopemder, Surabaya, East Java, Indonesia
Wimolo Katamsi, Department of Naval Architecture, Faculty of Marine Technology, Institut Teknologi Sepuluh Nopemder, Surabaya, East Java, Indonesia

ID 365  Foreign direct Investment and Unemployment in Chad: ARDL Approach
Ganama Moustapha Gueme, Maimunah Binti Ali, and Khalil Abakar Moussa Kaya, Department of Business Management, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia
Hissein Araby Nour, Faculty of Economics Science and Management, (Faculté des Sciences Économiques et Gestions, FSEG), University of N'Djamena, Chad

ID 705  Perception of Teachers in Decision Making Choosing Learning Applications: Systematic Review of Teacher Competencies in Indonesia in Designing Social Media-Based Learning during Pandemics
Ghanima Widanarto, Department of Education Technology, Universitas Negeri Semarang, Indonesia

ID 238  Packaging Process Optimization Using Six Sigma
Sobhi Mejjaoui, Industrial Engineering Department Alfaisal University, Riyadh, KSA
Sarah Algublan, Industrial Engineering Department Alfaisal University, Riyadh, KSA

10:00 – 11:45 am, MONDAY  Engineering Management  Room 4
Session Chair: Aldo A. McLean, Engineering Management & Technology, University of Tennessee at Chattanooga, Chattanooga, TN, USA

ID 683  The Exploratory Factor Analysis on Firms Performance of Micro and Small Enterprises
Dedi Iskamto, Arhipen Yapentra, Elida Gultom, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia
Misdawita, Faculty of Economics and Business, Universitas Riau, Pekanbaru, Indonesia
Wetri Febrina, Sekolah Tinggi Teknologi Dumai, Riau, Indonesia
Budi Santosa, Faculty of Economics and Business, Universitas Trisakti, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 703  Ageing Society Facilities during Travelling: A Preliminary Study
Yahaya bin Ibrahim, Yusnita Yusof, and Ahmad Puad Masom, Faculty of Applied Social Sciences, Universiti Sultan Zainal Abidin, 21300 Kuala Terengganu, Terengganu, Malaysia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

ID 713  A Review of Corporate Financial Performance Literature: A Mini-Review Approach
Astrin Kusumawardani, Mohd Hassan Che Haat, Jumadil Saputra, Mohd Yusoff Yusliza and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 278  A Study of the Introduction and Application of Total Quality Management within the Public Service Sector in Sharjah
Khalifa Musabeh Alketbi, PhD Research Proposal, College of Graduate Studies, Engineering Management, University of Sharjah, UAE
Abbas Elmualim, Chair of the Department of Architectural Engineering, University of Sharjah, UAE

ID 516  The Effectiveness of using Modern Construction Methods as a Solution to Assist the Social Housing Shortage in the United Kingdom
Araz Agha, Abdussalam Shibani, Umar Bari, Dyaa Hassan and Nawal Gherbal, Coventry University, Coventry, United Kingdom

ID 077  Optimization of the Aggregate Production Plan in the Floriculture Industry: Case Study
Edison A. Gómez-Chávez, Yakcleem Montero-Santos, Ramiro V. Saraguro-Piarpuezan and Karla Paola Negrete, Facultad de Ingeniería en Ciencias Aplicadas, Universidad Técnica del Norte, Ibarra, Ecuador

ID 455  Assessing the Gap between Offshoring Expectations and Performance within an Engineering Department
Kent Derbyshire and Aldo A. McLean, Engineering Management & Technology, University of Tennessee at Chattanooga, Chattanooga, TN, USA

10:00 – 11:45 am, MONDAY  Business Management  Room 5
Session Chair: Afifah Abd Razak and Shankar Chelliah, School of Management, Universiti Sains Malaysia, 11800 Gelugor, Pulau Pinang, Malaysia

ID 872  Contributing Factors that Affect Employee Performance: A Mini-Review Approach
Leonardus Wijaya, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 873  A Review of Work Effectiveness and Efficiency, Service Quality and Organisational Performance Literature: A Mini-Review Approach
Abdurahman Alkaf, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia
March 8, 2021 (Monday) - Session: 12:00 – 1:45 pm

12:00 – 1:45 pm, MONDAY    Master Thesis Competition    Room 1

Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 931 The Role Of Financial Ability As A Mediator Of Financial Education And Financial Satisfaction Case Study At Productive In Makassar City
Nabila Junviani, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
Budi Rustandi Kartawinata, Business Administration, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
Nadya Karina Moeliono, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
Arlin Fertina Mochamad Trenggana, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia

ID 941 Financial Knowledge and Financial Behavior to Financial Satisfaction to the Millennial Generation in the City of Bandung
Kiran Devi, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
Budi Rustandi Kartawinata, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
Candra Wijayangka, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
Diki Wahyu Nugraha, Prodi/Jurusan D4 Teknik Informatika Politeknik Pos Indonesia, Jln. Sari Asih No. 54, 40151 Bandung, Jawa Barat, Indonesia

ID 842 Factors that Affect Competence and Affective Commitment and Its implication on Job Performance: A Case Study of STIE Medan, Indonesia
Cia Cai Cen, Willy Cahyadi, Lukito Cahyadi, Limega Candrasa, Mangasi Sinurat, Sekolah Tinggi Ilmu Ekonomi Bina Karya Tebing Tinggi, Padang Hulu, Tebing Tinggi, 20631 Sumatera Utara, Indonesia
Rico Nur Iham, Faculty of Business and Economics, Universitas Malikussaleh, Bung Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

Jassmin Johari, Zalhia Zainuddin, and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 821 Drivers of Entrepreneurial Intention among University Students: The Mediating Role of Subjective Norms
Jullimursyida, and Julian Chandra, Faculty of Business and Economics, Universitas Malikussaleh, Bung Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
Mawardati, Faculty of Agriculture, Universitas Malikussaleh, Reuleut Timur, Muara Batu, Aceh Utara, Aceh, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 833 Identifying the Contributing Factors Influencing Customers’ Buying Behaviour: Case Study of Majelis Bandaraya Petaling Jaya, Malaysia
Affifah Abd Razak and Shankar Chelliah, School of Management, Universiti Sains Malaysia, 11800 Gelugor, Pulau Pinang, Malaysia
M. Yusof Yusliza and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

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12:00 – 1:45 pm, MONDAY    Case Studies    Room 2
Session Chair: Goh Ying Soon, Universiti Teknologi MARA, 54000 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, Malaysia

ID 776  Marketing Communication Strategy of the Tourism and Culture Office of Langkat Regency in Increasing Tangkahan Tourist
Nina Siti Salamania Siregar, Armansyah Matondang, Ilma Saakinah Tansil and Abdul Haris, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
Beby Mashito Batubara and Agung Suharyanto, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
Evi Yunita Kurniaty, Governmental Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

ID 772  Does Digital Marketing Platforms affect Business Performance? A Mini-Review Approach
Mohamad Arfiman Yosef, Monizahsastra Mohamed, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 774  2013 Curriculum Implementation in Physical Learning
Tri Kurnia Badu, Syafa Lisaholit, Siti H Loilatu, and Suraya Mukaddar, Universitas Iqra Buru, Namlea, Indonesia
M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 759  Conceptualizing the Role of Patient Satisfaction in the Relation between Services Quality and Patient Loyalty in Jordan Public Hospitals
Salahaldeen Alkawamleh, Puspa Liza Ghazali, Roslida Abdul Razak, Juliana Arifin and Eni Norein Mohmad Zain, Faculty of Business and Management, Universiti Sultan Zainal Abidin Unisza, 21300 Kuala Nerus, Malaysia
Sukono,Universitas Padjadjaran, Bandung. West Java. Indonesia
Rini Cahyanard, UIN Sunan Gunung Djati Bandung, West Java. Indonesia.
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 861  Capital Investment Analysis of New Business Unit Education Technology at PT Berau Coal
Cahyo Andrianto, Executive MBA Student, School of Business and Management Institute of Technology Bandung, Bandung
Uninya Anny Nainggolan, Lecturer of Business Risk and Finance Interest Group, School of Business and Management Institute of Technology Bandung, Bandung, Indonesia

ID 879  The Influence of Digital Folktales on the Students’ English Vocabulary Mastery of SMP Negeri 9 Buru
Abd. Rahman, Universitas Iqra Buru, Maluku, Indonesia

12:00 – 1:45 pm, MONDAY    Operations Management    Room 3
Session Chair: Lina Gozali, and Frans Jusuf Daywin, Lecturer of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 079  The importance and satisfaction of location decision factors of South African manufacturing and service SMMEs: An Exploratory Factor Analysis
Alice Kabamba Lumbe, Eveth Nwobodo-Anyadieguw, and Charles Mbohwa, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

ID 589  The Power of Hypothesis Parameters Testing on Geometric Distributions and Its Simulation
Budi Pratikno, and Evita Luaria Wulandari, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Jenderal Soedirman, Purwokerto, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 049  Influence of Substrate Temperatures on Morphological TiO2 Nano-layers Properties
Bedoud Khouloud, Merabet Hichem, Graine Redouane, Alimi Latifa, and Drici Djalel, Research Center in Industrial Technologies (CRTI), Cheraga, Algeria

ID 451  Modeling and configuration management of Reconfigurable Manufacturing Systems (RMS)
Jesus Vital Kombaya, Nadia Hamani and Lyes Kermad, Department of Industrial Engineering, University of Paris 8, Paris, France and University Picardie Jules Verne, Saint Quentin, France

ID 370  Developing a Multi Criteria Decision Making Framework to Select the Most Suitable Production System in Apparel Firms: Use of ANP Method
Wijayanayake A.W., Thalagahage N.T.H, and D.H.H. Niwunhella, Department of Industrial Management, Faculty of Science, University of Kelaniya, Sri Lanka

ID 458  Production Planning and Control in Furniture Company at PT. Lion Metal Works

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<th>Session Time</th>
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<tr>
<td>12:00 – 1:45 pm</td>
<td>Inês Onofre, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal</td>
<td>PREJUDICE ON INDONESIA SOCIAL MEDIA</td>
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<td>A. Yusdiyanti Tenriawi, M Chairul Basrun Umanai, Universitas Iqra Buru, Maluku, Indonesia</td>
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<td>Kaharuddin Kadaruddin, Cultural Sciences Faculty, Hasanuddin University, Indonesia</td>
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<td>ID 811</td>
<td>FACTORS ENCOURAGING THE PANGANDARAN FEMALE ENTREPRENEURS’ STURDINESS IN PANDEMIC TIME (A CASE STUDY IN PANGANDARAN REGENCY)</td>
<td>Ikek Kania, Faculty of Social and Political Sciences of Garut University, Indonesia</td>
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<td>Siti Anisa Silvia, Indonesian Institute of Sciences, Indonesia</td>
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<td>Nani Rohaeni, Garut Regency Regional Secretariat, Indonesia</td>
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<td>ID 846</td>
<td>THE CHALLENGES OF INDUSTRIAL REVOLUTION 4.0: AN EVIDENCE FROM PUBLIC ADMINISTRATION ECOSYSTEM IN INDONESIA</td>
<td>A. Rina Herawati, Hardi Warsono, and Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia</td>
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<td>Jumadi Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Teerengganu, Kuala Nerus, Terengganu, Malaysia</td>
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<td>Abdul Taib Ali, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia</td>
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<td>ID 864</td>
<td>A QUALITATIVE STUDY OF TRANSFORMATIONAL LEADERSHIP AND ORGANIZATION SUCCESS</td>
<td>Dewi Jannah and Latip, Institute of the Malay World and Civilisation, Universiti Kebangsaan Malaysia, UKM Bangi, 46300, Selangor, Malaysia</td>
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<td>A. Tarmizi, Department of Public Administration, Postgraduate Program, Universitas Islam Riau, Pekanbaru, Riau 28284, Indonesia</td>
<td>A. Tarmizi, Department of Public Administration, Postgraduate Program, Universitas Islam Riau, Pekanbaru, Riau 28284, Indonesia</td>
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<td>ID 978</td>
<td>PRODUCTIVE ARRANGEMENT FOR STRENGTHENING LOCAL MICROECONOMICS THROUGH SCHOOL FEEDING</td>
<td>Antônio Carlos Estender, Nilda Aparecida dos Santos, Jorge Luiz Dias Agia, Sérgio Miele Ruggero, Aguinaldo Eduardo de Souza and Oduvaldo Vendrametto, Paulista University – UNIP, São Paulo, SP, Brazil</td>
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<td>ID 971</td>
<td>LAND DEVELOPMENT PROCESSES AND PROPERTY RIGHTS: TOP-DOWN AND BOTTOM-UP APPROACHES IN WINDHOEK NAMIBIA</td>
<td>Romancia Shoonga, Department of Urban &amp; Regional Planning, University of Johannesburg, 25 Louisa Street, Johannesburg, South Africa</td>
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<td>Eric Makoni, Department of Urban &amp; Regional Planning, University of Johannesburg, 25 Louisa Street, Johannesburg, South Africa</td>
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<td>ID 828</td>
<td>IMPLEMENTATION OF A KNOWLEDGE MANAGEMENT STRATEGY: REFLECTIONS AND CRITICAL SUCCESS FACTORS</td>
<td>Inês Onofre, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal</td>
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<td>Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, 3810-193, Aveiro, Portugal</td>
<td>Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, 3810-193, Aveiro, Portugal</td>
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<td>12:00 – 1:45 pm</td>
<td>Aji Purwinarko, Science and Math, Universitas Negeri Semarang, Indonesia</td>
<td>STUDENT PARENT TRAINING TO REDUCE THE IMPACT OF PROBLEMATIC INTERNET USE IN PAUD PELANGI STUDENTS, NGIO GUNUNGPATI SEMARANG</td>
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<td>ID 627</td>
<td>KINDERGARTEN TEACHERS’ EXPERIENCE AND AGE CONTRIBUTION TO TEACHING PERFORMANCE</td>
<td>Yuli Kurniawati Sugio Pranoto, Dyah Retno Fitri Utami, and Lita Latiana</td>
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<td>Early Childhood Education, Graduate School, Universitas Negeri Semarang, Sekaran, Gunungpati, Indonesia</td>
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<td>Farid Ahmad, Primary Teacher Education Department, Faculty of Education, Universitas Negeri Semarang, Sekaran, Gunungpati, Indonesia</td>
<td>Farid Ahmad, Primary Teacher Education Department, Faculty of Education, Universitas Negeri Semarang, Sekaran, Gunungpati, Indonesia</td>
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<td>ID 631</td>
<td>DEVELOPMENT AND VALIDATION OF THE SOCIAL-CULTURAL COMPETENCY ASSESSMENT SOFTWARE FOR STATE CIVIL APPARATUS</td>
<td>Tri Esti Budingsih, Fatma Kuasa Mahanani, Pradipta Christy Prawi and Woro Apriliana Sari, Department of Psychology, Educational Faculty Universitas Negeri Semarang, Semarang, Indonesia</td>
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<td>Sri Sularti Dewanti Handayani, and Akaat Hasjiandito, Department of Early Childhood Teacher Education, Universitas Negeri Semarang, Indonesia</td>
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<td>ID 632</td>
<td>DEVELOPING HOTS-ORIENTED LEARNING MODEL WITH SCIENTIFIC APPROACH FOR THE HEADS OF IGTKI THROUGHOUT CENTRAL JAVA</td>
<td>Sri Sularti Dewanti Handayani, and Akaat Hasjiandito, Department of Early Childhood Teacher Education, Universitas Negeri Semarang, Indonesia</td>
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<td>Sri Suliastyo Yorini, JurusanPendidikan Guru Sekolah Dasar, UniversitasNegeri Semarang, Semarang Indonesia</td>
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<td>ID 633</td>
<td>RELATIONSHIP BETWEEN PARENTING STYLE AND SOCIAL ATTITUDES OF ELEMENTARY STUDENTS</td>
<td>Sri Sami Ash, JurusanPendidikan Guru Sekolah Dasar, UniversitasNegeri Semarang, Semarang Indonesia</td>
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ID 634  Promotion of Mental Health through Digital Media to Reduce Psychosomatic Impact in Pandemic Time  
Sony Zublikasari, Woro Apriliani Sari, and Sugeng Purwanto, Universitas Negeri Semarang, Indonesia

ID 635  What Kind of Teacher Am I? (An Exploratory of Teacher Characteristic as Activator)  
Sugiyarta SL, Psychology, Universitas Negeri Semarang, Indonesia  
Ardi Prabowo, Science and Math, Universitas Negeri Semarang, Indonesia  
Tsabit A. Ahmad, Social Studies, Universitas Negeri Semarang, Indonesia  
Aji Purwinarko, Science and Math, Universitas Negeri Semarang, Indonesia  
M. Badrus Sirjoi, Linguistic, Universitas Negeri Semarang, Indonesia

March 8, 2021 (Monday) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, MONDAY  Graduate Student Paper Competition  Room 1
Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 547  Stakeholder Management Models for Solid Waste Management Projects  
Maheshi Tennakoon, Department of Building Economics, University of Moratuwa, Katubadda, Moratuwa, Sri Lanka

ID 838  Utilization of Machine Learning Techniques for Quality Monitoring and Prediction  
Mohamed Ismail, Department of Mechanical Engineering, Benha University, Benha 13518, Qalubia, Egypt  
Noha A. Mostafa, Mechanical Engineering Department, The British University in Egypt 11837, Cairo, Egypt and Industrial Engineering Department, Zagazig University 44519, Sharkia, Egypt  
Ahmed El-assal, Department of Mechanical Engineering, Benha University, Benha 13518, Qalubia, Egypt

ID 1203  Impact of TQM Implementation on organization performance with in public service sectors in Sharjah  
Khalifa Musabeh Alketbi, College of Graduate Studies, Engineering Management, University of Sharjah, UAE  
Abbas Elmalaim, Chair of the Department of Architectural Engineering, University of Sharjah, UAE  
Emad Mushhtaha, Co-Supervisor, Department of Architectural Engineering, University of Sharjah, UAE

ID 570  Flexible Travel of Shuttles under Smart Collision and Deadlock Control Policies versus Dedicated Zone Travel of Shuttles for an SBS/RS  
Ecem Eroglu Turhanlar and Banu Yetkin Ekren, Department of Industrial Engineering, Yasar University, Izmir, Turkey  
Tone Lerher, Faculty of Mechanical Engineering, University of Maribor, Maribor, Slovenia

ID 1136  Application of TPU – Sourced 3D Printed FDM Organs for Improving the Realism in Surgical Planning and Training  
Patrich Ferretti, Christian Leon-Cardenas, Merve Sali, Gian Maria Santi, Leonardo Frizziero, Giampiero Donnici, and Alfredo Liverani, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 1009  Investigating Soot Blowing Mechanism of Boilers  
Kholofelo Errol Malatji and D.V.V. Kallon, University of Johannesburg, South Africa

2:00 – 3:45 pm, MONDAY  Supply Chain & Logistics Panel  Room 2
Panel Chair

Dr. Mark Goh  
Director of Industry Research  
The Logistics Institute - Singapore  
Professor, Department of Decision Sciences, School of Business  
National University of Singapore (NUS), Singapore

Panel Speakers

Nyoman Pujawan, Ph.D, CSCP  
Professor of Supply Chain Engineering  
Department of Industrial Engineering  
Sepuluh Nopember Institute of Technology (ITB)  
Kampus ITS Sukolilo Surabaya, Indonesia

Ferry Jie, PhD  
Associate Professor of Supply Chain and Logistics Management  
Edith Cowan University (ECU)  
Joondalup, WA 6027, Australia

Dr. Suhaiza Zailani  
Professor, Department of Operations Management and Information System  
Faculty of Business and Accountancy  
University Malaya  
Kuala Lumpur 50203, Malaysia

Dr. Jitesh J. Thakkar  
Professor and Program Director (BBA+BSc)  
National Rail and Transportation Institute (NRTI)  
India's first university focused on transportation-related education  
Estd. by Min of Railways, Govt of India Funded  
National Academy of Indian Railways (NAIR) Campus  
Lalbagh, Vadodara - 390 004, India
ID 261  Comparing Concrete construction using Modular and Individual Panel System (IPS) methods  
Ali Tighnavard Balisbanean, Faculty of Civil and Environmental Engineering, Universiti Tun Hussein Onn Malaysia, Parit Raja, Johor, Malaysia  
Mohd Irwan Juki and David Yeoh, Faculty of Civil and Environmental Engineering, Universiti Tun Hussein Onn Malaysia, Parit Raja, Johor, Malaysia

ID 299  Development of Performance Measurement Framework for Biomass Smokeless Charcoal Production  
Pornthip Jainphon, Graduate Program in Logistics Engineering and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand  
Salinee Sanitierarakul, Excellence Center in Logistics and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand

ID 192  Do All the Green Manufacturing Adoption Drivers have the same Influence? (Survey Study of Indonesian Batik Textile SMEs)  
Ira Setyaningsih, Wakhid Slamet Ciptono, Nurul Indarti, and Nofie Iman Vidya Kemal, Magister Doctoral Faculty of Bussiness, Universitas Gadjah Mada, Yogyakarta, Indonesia

ID 327  Fabrication of Soy-Based Polyurethane and Identification Failures from Processing Pathway  
Flora Elvista Firdaus, Donna Imelda, Lubena, and Rinnette Visca, Department of Chemical Engineering, Jayabaya University, Jl Pulomas Selatan Kav 23 Jakarta-13210, Indonesia

ID 328  The Manufacturing of Low Loading Phosphoric Based Polyurethane Application from Edibles Epoxide Conversion  
Flora Elvista Firdaus*, Donna Imelda, Lubena, and Rinnette Visca, Department of Chemical Engineering, Jayabaya University, Jl Pulomas Selatan Kav 23 Jakarta-13210, Indonesia

ID 1065  Student Learning Interest in Covid-19 Pandemic Age by Blended E-Learning (Asynchronous and Synchronous)  
Harlindah Hamifi Arfan, STIE NOBEL Makassar, Indonesia  
Geminastiti Sakki, Universitas Negeri Makassar, Indonesia  
Nungky Puspita, Universitas Pancasila, Indonesia  
Zarina Akbar, Universitas Negeri Jakarta, Indonesia  
Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia  
As radi, Yusradi Yusradi, Sekolah Tinggi Ilmu Administrasi Puangrimagajalatung, Makassar, Indonesia

ID 1043  Project Risk in the Age of AI: A Meta-network Assessment of Behavior Centric Intangible Risks  
Christopher COX, Kimmel School of Construction Management (August 2021), Western Carolina University, Cullowhee, NC 28723, USA  
Hamid PARSAEI, Wm Michael Barnes’64 Department of Industrial and Systems Engineering, Texas A&M University, College Station, TX, USA

ID 684  Estimated Spline in Nonparametric Regression with a Generalized Cross Validation and Unbiased Risk Approach  
Agustini Tripena and Agung Prabowo, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Jenderal Soedirman, Indonesia  
Yosita Lianawati, Sekolah Tinggi Ilmu Komputer Yos Sudarso, Purwokerto, Indonesia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 685  The Variant of Magic Square in Javanesse Tradition  
Agung Prabowo, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Jenderal Soedirman, Indonesia  
Hasriati, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Riau, Indonesia  
Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia  
Mustafa Mamat, Faculty of Informatics and Computing, Universiti Sultan Zainal Abidin, Gong Badak Campus, 21300, KualaTerengganu, Terengganu, Darul Iman, Malaysia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 732  Poverty Level Analysis in Indonesia Using the Stochastic Restricted Maximum Likelihood Approach Method  
Riaman, Sudradjat Supian, and Sukono, Department of Mathematics, FMIPA, Padjadjaran University, Jatinangor 40363, Indonesia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 735  Increasing Labor Insurance Participation with the Agency System  
Fredi Andria, Salmah, and Mima Rahayu, Department of Management, Faculty of Economics Pakuan University, Bogor Indonesia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 755  Financial Distress Analysis Using Altman (Z-Score), Springate (S-Score), Zmijewski (X-Score), and Grover (G-Score) Models in the Tourism, Hospitality and Restaurant Subsectors Listed on the Indonesia Stock Exchange Period 2015-2019  
Retno Martanti Endah Lestari, Monang Situmorang, and M. Ilham Putra Pratama, Department of Accounting, Faculty of Economics, Pakuan University, Bogor, Indonesia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 758  Analysis to Assessment Potential Bankruptcy of the Company in State Owned Enterprises Agriculture Sector  
Agung Fajar Ilmiyono, Ellyn Octavianty, and Muhamad Adriansyah, Dept. of Accounting, Faculty of Economics, Pakuan University, Bogor, Indonesia  
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia
ID 754  Promotion of the Motif Kujang Design by A* Algorithm Application in the Labyrinth Education Game
Eneng Tita Tosida, Restu Wibowo, and Sufiatul Maryana, Department of Computer Science, Universitas Pakuan, Bogor, Indonesia, Jl. Pakuan PO Box 452 Bogor 16143, Jawa Barat, Indonesia

2:00 – 3:45 pm, MONDAY  Education Room 5
Session Chair: Mungin Eddy Wibowo, Universitas Negeri Semarang, Semarang, Central Java, Indonesia

ID 636  Analysis of the relationship of career adaptability and career competence towards student career engagement
Sinta Saraswati, Edwinda Prafitra Nugraheni, Vira Mulyawati, and Ari Eko Wibowo, Department of Guidance and Counseling, Faculty of Education, Universitas Negeri Semarang, Indonesia
Edwinda Prafitra Putra, Department of Guidance and Counseling, Faculty of Teacher Training and Education, Universitas Nahdlatul Ulama Sunan Giri Bojonegoro, Indonesia

ID 637  Parental Support in Nutrition Service Management towards Integrative Holistic Early Childhood Education
Renin Pawestuti Ambari Sumanto and Neneng Tasuah, Department of Early Childhood Education Teacher Education, Universitas Negeri Semarang, UNNES Campus 50229, Semarang, Indonesia

ID 639  Game Learning based Android for Trauma Healing in Post Disaster Children in Disaster Area in Banyumas Regency
Rafika Bayu Kusumandari and Sony Zulfikasari, Educational Technology Department, Universitas Negeri Semarang, Semarang, Indonesia

ID 640  The Art Communication System of Children Songs by Djito Kasilo in Digital Era through Web 2.0 to Instill Character Values in Early Childhood Students
Putri Yanuarita Sutikno, and Novi Setyasto, Primary School Teacher Education Department, Universitas Negeri Semarang, Semarang, Indonesia

ID 641  The implementation of pjbl assisted with the virtual debate to assess students’ competency of writing articles
Panca Dewi Purwati, Primary Teacher Education, Education Faculty, Universitas Negeri Semarang, Indonesia

ID 642  Local Wisdom-Based Text Grading Media: Improving Early Reading Skills of Primary Students
Nugraheti Sismulyash Sb, Panca Dewi Purwati, and Umar Samadhy, Primary Teacher Education Department, Universitas Negeri Semarang, Semarang, Indonesia

ID 643  The Development of Guide Book for Implementing Online Learning through Google Classroom Assisted by Zoom as a WFH Solution for Elementary School Teachers
Novi Setyasto, Sutaryono, Galih Mahardika C. P., Sigit Yulianto, and Purnomo, Primary School Teacher Education Department, Universitas Negeri Semarang, Semarang, Indonesia

ID 644  Analysis of Ethnic Identity, Academic Identity, and Subjective Well-Being among Javanese College Students
Mungin Eddy Wibowo, Zakki Nurul Amin and Sunawan Sunawan, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia

March 8, 2021 (Monday) - Session: 4:00 – 4:45 pm

4:00 – 5:45 pm, MONDAY  COVID-19 Analytics Competition Room 1
Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 448  An Agent-based Model of COVID-19 Epidemic to Simulate Spread Effects of Human Behavior Intervention
Retno Widjaningrum, Arief Rahman, and Najmi Fauzia, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

Rhea Ann G. Perez, Elvis Dave M. Santos and Maria Louise C. Valenzuela, Industrial Engineering Department, Technological Institute of the Philippines, 363 P. Casal Street, Quiapo, Manila, Philippines
Janina Elyse A. Reyes, Industrial Engineering Department, Technological Institute of the Philippines, 363 P. Casal, Quiapo Metro Manila, Philippines

ID 599  Effect of Mask and Workload on Physiological Responses
Atef Shaleb, King Saud University, Riyadh, Saudi Arabia

ID 167  Mathematical Modeling of Reservoir-Mediator-Human Dynamical Transmission of COVID-19 Outbreak
Joy Bakshi, S M Shaheduzzaman Ayon, and Md. Haider Ali Biswas, Mathematics Discipline, Science Engineering and Technology School, Khulna University, Khulna-9208, Bangladesh

ID 091  Online Learning Transformation Technology in Higher Education: Challenges & Strategy
John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
Aleksander Purba, Civil Engineering Department, Faculty of Engineering, Universitas Lampung-Bandar Lampung 35145, Indonesia

ID 086  Strategy of Technology Services for Customers in Pandemic Covid19 Situation: A case from Indonesia
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<tr>
<td>878</td>
<td>Enhancing Cyber Security in the Philippine Academe: A Risk-Based IT Project Assessment Approach</td>
<td>Michael Francis M. Aquino and Marvin I. Norofia, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines</td>
<td>Room 3</td>
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<tr>
<td>898</td>
<td>Online Social Networks as Supporting Evidence for Digital Forensic Investigation: A Revised Model</td>
<td>Norulzahrah M. Zainudin, Nor Asiakin Hasbullah, Muslihah Wook, Suzaimah Ramli and Noor Afiza Mat Razali, Department of Computer Science, National Defence University Malaysia, Kuala Lumpur, Malaysia</td>
<td>Room 3</td>
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<tr>
<td>890</td>
<td>Two-Factor Authentication in the E-Banking System: A Literature Review</td>
<td>Faiza Renaldi, Asep Id Hadiana, Angga Fantiya Hemawan, Shanina Aisyah Wardhani, Albi Mulyadi Sapari and Agya Java Maulidin, Department of Informatics, Jenderal Achmad Yani University, Indonesia</td>
<td>Room 3</td>
</tr>
<tr>
<td>972</td>
<td>The Application of Three Multinomial Logit Models for Modeling Injury Outcomes of Crashes Involving Driver, Passenger and Pedestrian victims</td>
<td>Ouni Fedy, Department of transportation and logistics, Higher Institute of Transport and Logistics of Sousse, University of Sousse, Sousse, Tunisia Mariem ALLOUCH, PhD student, Faculty of Economic Sciences and Management of Sousse, University of Sousse, Tunisia</td>
<td>Room 2</td>
</tr>
<tr>
<td>752</td>
<td>Establishing Drone Detection System by Using Deep Learning and YOLOv3 Formatting</td>
<td>AbdulAziz Bin Shuhaywin and Faisal AlMeshkhas, Engineering and Systems Management Students, College of Engineering, Alfaisal University, Riyadh, Al-Zahrawi Street 11533, KSA Sobhi Mejjaoui, Assistant Professor, Industrial Engineering Department, Alfaisal University, Riyadh, KSA</td>
<td>Room 3</td>
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<tr>
<td>052</td>
<td>High-Speed Rail Transit Development in Indonesia, Lesson Learned from Developing Countries</td>
<td>Aleksander Purba, Civil Engineering Department, Engineering Faculty, the University of Lampung, Bandar Lampung 35145 Indonesia John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia</td>
<td>Room 3</td>
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<td>026</td>
<td>Optimizing bus frequency in Kuwait to minimize total cost and satisfy the average daily demand</td>
<td>Sharaf Alkheder, Fahad AlRukaibi and Areej Zagzoug, Civil Engineering Department, College of Engineering &amp; Petroleum, Kuwait University, Kuwait</td>
<td>Room 3</td>
</tr>
<tr>
<td>083</td>
<td>Sustainable Subgrade Stabilization for Transport Infrastructure Development in Australian Sodic Soils</td>
<td>Raghavendra Vasudeva Upadhyaya, PhD student, College of Engineering and Aviation, Central Queensland University, Melbourne, VIC, Australia Jerome Egwurube, Lecturer, College of Engineering and Aviation, Central Queensland University, Rockhampton, QLD 4701, Australia Prince Bhandari, Laboratory Supervisor, College of Engineering and Aviation, Central Queensland University, Melbourne, VIC 3000, Australia</td>
<td>Room 4</td>
</tr>
<tr>
<td>544</td>
<td>The Effect of Experience Value on Customer Loyalty Moderated by Experiential Context-Based Customer Education</td>
<td>Ahmad Hartawan, Students in the Doctoral Program of Economics, Universitas Sriwijaya, Palembang, Indonesia Syamsurijal A. Kadir, Zakaria Wahab, and Muchsin Saggaff Shihab, Faculty of Economic, Universitas Sriwijaya, Palembang, Indonesia</td>
<td>Room 4</td>
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ID 456  Supplier Selection: A Lean-Agile (Leagile) Approach  
Zahra Bastani, and Masoud Rahiminezhad Galankashi, Department of Industrial, Mechanical and Aerospace Engineering, Buineh Zahra Technical University, Buineh Zahra, Qazvin, Iran  
Muhammad Hisjami, Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Surakarta, Indonesia

ID 108  Supply Chain Management in B2C E-Commerce: Delineating Managers' Challenges  
Erlinda Nusron Yunus, Sekolah Tinggi Manajemen PPM, Jl. Menteng Raya No. 9-19, Jakarta 10340, DKI Jakarta, Indonesia

ID 056  Systematic Literature Reviews in Supply Chain Resilience: A Systematic Literature Review  
Darío Simbizi, Loubna Benabbou and Bruno Url, Département Sciences de la Gestion, Université du Québec à Rimouski (UQAR) Campus de Lévis, Québec, Canada

ID 186  The Missing Puzzle of Community Development Practices in Food SMEs' Value Chain: Quadruple Helix Theory  
Dina Nurul Fitrina, Department of Economics, Universitas Pertamina, Indonesia

ID 543  The Role of Stakeholder Commitment and Supply Chain Collaboration in Improving Dry Port Firm Performance in Indonesia  
Darajat Sujadri, Engkoes Achmad Kuncoro, and Hardjianto Saroso, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia  
Anisa Larasati, Management Department, Bina Nusantara University, Indonesia and Business Administration, National Taiwan University of Science and Technology, Taiwan  
Dennis Moeko, HAN University of Applied Sciences, Netherlands

ID 030  Traceability Architecture Technology for Short Commercial Exchange  
John Jairo Aguiler Camacho, Jeniffer Paola Torres Salazar, Angela Maritza Mora Gómez and Lina Nataly Alvarado Riaño, Research Group EGE, Early Career Researcher Grizzly, Fundación Universitaria Panamericana – UNIPANAMERICANA, Bogotá D.C., Colombia

ID 102  Trading System Design Based on Cooperative Game for a Two-Level Supply Chain  
Kotomichi Matsuno, Department of Business Design and Management, Graduate School of Creative Science and Engineering, Waseda University, 3-4-1 Okubo, Shinjuku-ku, Tokyo, Japan

4:00 – 5:45 pm, MONDAY  
Session Chair: Imam Shofwan, Universitas Negeri Semarang, Indonesia

ID 645  Analysis of Ethnic Exploration, Ethnic Commitment, and Other Group Orientations in Javanese College Students  
Mulawarman Mulawarman, Zakki Nurul Amin, Muslikah Muslikah and Sigit Hariyadi, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia

ID 646  Analysis of Cultural Arts Learning and Fine Arts Craftsmanship in Developing the Creativity of Students: Case Study in SDN 1 Ngampelkulon of Kendal District  
Moh. Fathurrachman and Kurnia Iga Marystya, Primary School Teacher Education Department, Faculty of Education, Semarang State University, Indonesia

ID 647  A Pedagogy of Multiliteracy in Developing Social Future of Rural Communities  
Mintarsih Arbarini, Liliek Desmawati, and Tri Suminar, Department of Nonformal Education, Universitas Negeri Semarang, Semarang, Indonesia

ID 648  School for Parents: Family Education Development throughout the First 1000 days of Life for Accelerating Stunting Reduction in Brebes Regency  
Lita Latiana, Rina Windiarti, and Reni Pawestuti, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 650  Development of Design and Training Teaching Materials: Need-Oriented to Improve Pedagogical Competencies Pamong Learning  
Imam Shofwan, Department of Nonformal Education, State University of Semarang, Building a Campus Sekaran Gunungpati Semarang, Indonesia

ID 651  Validation of Reflective Model Curriculum Evaluation Instruments  
Istyarini, Niam Wahzudik, Wardi, and Nurussa'adah, Department of Curriculum and Educational Technology, Faculty of Science Education, Universitas Negeri Semarang, Semarang, Indonesia

ID 652  Implementation of Cooperative Learning Model in Homeschooling Carnation  
Imam Shofwan, and Irlan Widyana Santosa, Nonformal Education, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 653  Application Action Learning Approach for Character Building through Activities Student Go To Society  
Fitria Dwi Prasetyaningtyas, and Sutaryono, Primary School Teacher Education, State University of Semarang, Indonesia

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March 8, 2021 (Monday) - Session: 6:00 – 7:45 pm

6:00 – 7:45 pm, MONDAY  
Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

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ID 753  
Sentiment Analysis of Indonesian Citizen Compliance Representation in the Covid-19 Pandemic Period  
Eneng Tita Tosiadi, Emiyati, and Krishna, Department of Computer Science, Universitas Pakuan, Indonesia, Jawa Barat, Indonesia  
Abdul Taib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 757  
Understanding Millennials' Online Buying Behavior during Pandemic Covid-19  
Nizam Mohammad Andrianto and Kiki Oktora, Departement of Management, Faculty of Economics, Universitas Pakuan, Bogor, Indonesia  
Abdul Taib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 771  
The Use of E-Governance in Emerging Countries: A Case of South Africa during the COVID-19 Pandemic  
Lerato Mofokeng, Eric Nyitungu, Annie Chikwanha and Chris Landsberg, Department of Politics and International Relations, University of Johannesburg, Johannesburg, South Africa

ID 638  
Why Do I Survive? (Job Challenges and Risks of Work during COVID-19 Pandemic Don't Make Us Give Up)  
Rahmawati Prihatusti, Dyah Ayu Rahmawati and dan Putri Dea Agestasia, Psychology Department, Faculty of Education, Universitas Negeri Semarang, Indonesia  
Aji Sofanudin, Office of Religious Research and Development Semarang, Indonesia

ID 654  
How Does Low Self Esteem Exacerbate Cyberchondria during the Covid-19 Pandemic?  
Fatma Kusuma Mahanani, Dyah Ayu Rahmawati, Sukma Adi Galuh Arnaudyati and Aminatun Masruuroh, Department of Psychology, Educational Faculty, Universitas Negeri Semarang, Jawa Tengah, Indonesia

ID 658  
Online Learning in the Time of Covid-19 Crisis: its Implementation and Challenges  
Edi Subkhan, Haryono, and Heri Triluqman Budisantoso, Department of Curriculum and Educational Technology, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 659  
The COVID-19 Pandemic, Problematic Internet Use, Self Esteem. Does it Matter? (Study in Indonesian College Student)  
Dyah Ayu Rahmawati, Fatma Kusuma Mahanani and Sri Rahayu, Psychology Department, Faculty of Education, Universitas Negeri Semarang, Indonesia

6:00 – 7:45 pm, MONDAY  
Smart Mobility and Smart Cities  
Room 2  
Session Chair: Dina Nurul Fitria Universitas Pertamina, Jakarta, Indonesia

ID 271  
Design for Six Sigma (DFSS) applied to an innovative Electric Scooter  
Giorgia Zippo, Pierpaolo Ruggiero, Irene Tedesco and Leonardo Frizziero, Alma Mater Studiorum University of Bologna, Department of Industrial Engineering, Viale Risorgimento 2, 40136, Bologna, Italy

ID 393  
Supply Chain Network Design and Feasibility Investment for Charging Station of Electric Motorcycle Vehicle  
Silvi Istiqomah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia  
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology and Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia  
Muhammad Hisjam, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia  
Yuniaristanto, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 264  
The Hourglass Model: From Consumer's Behavior to Delivery  
Diogo Correia, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal  
Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Research Unit on Governance, Competitiveness and Public Policies (GOVCOPP), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT)  
University of Aveiro, Aveiro, Portugal  
João Lourenço Marques, Research Unit on Governance, Competitiveness and Public Policies (GOVCOPP), Department of Social, Political and Territorial Sciences (DCSPT), University of Aveiro, Aveiro, Portugal

ID 046  
Comparative Life Cycle Impact Assessment of Regular Clamshell & Eco Clamshell  
Kapish Dutta, M.Sc. Renewable Energy Engineering and Management, University of Freiburg, Germany  
Yash Khandekar, M.Sc. Renewable Energy Engineering and Management, University of Freiburg, Germany  
Kapish Dutta, M.Sc. Renewable Energy Engineering and Management, University of Freiburg, Germany

ID 450  
Customization Measurement in Reconfigurable Manufacturing System (RMS)  
Jesus Vital Kombaya Nadia Hamani and Lyes Kermad, Department of Industrial Engineering, University of Paris 8, Paris, France and University Picardie Jules Verne, Saint Quentin, France

ID 325  
Inventory Management Framework to Drug Receiving Project at a Local Drug Store  
Nitchakarn Prommarat, Program in Logistics Engineering and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand  
Salinee Santiteerakul, Excellence Center in Logistics and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand

6:00 – 7:45 pm, MONDAY  
Case Studies  
Room 3  
Session Chair: Dedi Sahputra, Universitas Medan Area, North Sumatera, Indonesia

ID 702  
Political Dynasty in the Eye of the Community (Sociological Study of Political Awareness in Bima Regency Election 2020)  
Imam Yuliadi, Department of Social Sciences, Institute of Social and Cultural Sciences Samawa Rea, Moyo Hulu, 84316, Indonesia  
Sumitro, Department of Social Sciences, Institute of Social and Cultural Sciences Samawa Rea, Moyo Hulu, 84316, Indonesia  
Aji Sofanudin, Office of Religious Research and Development Semarang, Indonesia

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11th Annual Conference  
89
ID 722  A Qualitative Study of Ageing Society Facilities during Travelling: Case Study of Peninsular Malaysia
Wan Hamzah Wan Nur Adibah, Yahaya bin Ibrahim, and Yusnita Yusoff, Faculty of Applied Social Sciences, Universiti Sultan Zainal Abidin, 21300 Kuala Terengganu, Terengganu, Malaysia
Jumadi Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

ID 770  Environmental Performance Evaluation of Applying ISO 14001 in Laboratory
Rani Guslia, Dwi Nowo Martono, and Udi Syahnoedi Hamzah, School of Environmental Science, Universitas Indonesia, Jakarta, Indonesia

ID 779  Construction of Participatory Oversight of the Election Supervisory Agency in the Implementation of the 2020 Regional Head Election of South Konawe Regency (Study on the Utilization of Covid 19 Pandemic Social Assistance Ahead of the Pilika)
Dewi Anggraini, M. Najib Husain and Sultryansya, Faculty of Social and Political Sciences, Halu Oleo University, Indonesia

ID 775  Strengthening the Profession of Dance through Creative Process Management to Attract Tourism Performing Arts
Robby Hidayat, Pujiyanto, Muhammad Afal Hasymy, Sri Wulandari and E.W. Suprihatin DP, Master of Fine Arts Teaching Study Program, Faculty of Literature, West Java, Universitas Negeri Malang, Indonesia
Wifihani, Music Education Study Program, Faculty of Language and Art, Universitas Negeri Medan, North Sumatera, Indonesia
Inggi Prastiwana, Dance Education Study Program, Faculty of Language and Art, Universitas Negeri Medan, North Sumatera, Indonesia

ID 778  Optimization of Plantation Industry through Communication Management Implementation (Case Study)
Dedi Sariputra, Bahrum Jamil, Taufik Wal Hidayat, Ara Azza and Faufi Wikanda, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
Bellahmameri Simamora and Martina Deliana, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

ID 700  Auto Coupling Program of MATLAB and CAD for Line Start Permanent Magnet Motor Design
Minh Dinh Bui, HUST, Vietnam

ID 825  The Performance Measure of Flexible Manufacturing System by Using Arena Software: Case of MRO Company
Mohammed Alkahtani, Vice-Dean of Advanced Manufacturing Institute, Industrial Engineering Department, College of Engineering, King Saud University, Riyadh 11421, Saudi Arabia
Abdullah AlAnazi, Industrial Engineering Department, College of Engineering, King Saud University, Riyadh 11421, Saudi Arabia
Husam Kaid, Industrial Engineering Department, College of Engineering, King Saud University, Riyadh 11421, Saudi Arabia

6:00 – 7:45 pm, MONDAY  Industry 4.0  Room 4
Session Chair: Abhijeet Kumar, Tata Metalkals Limited, Kharagpur, West Bengal, India

ID 839  Industry 4.0 and Business Process Management: An Exploratory Study on the Bilateral Effects
Sara Castro, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal
Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, 3810-193, Aveiro, Portugal

ID 826  Integration of Total Productive Maintenance and Industry 4.0 to increase the productivity of NC Bore machines in the Musical Instrument Industry
Indra Setiawan, Master of Industrial Engineering Student, Universitas Mercu Buana, Meruya Selatan No. 1 Street, Kembangan, Jakarta, Indonesia

ID 923  Hydraulic Pump Condition Monitoring for Ductile Iron Plants
Souradeep Bhattacharja, Hot Zone Mechanical Maintenance & Digital, Tata Metalkals Limited, Kharagpur, 721301, West Bengal, India
Shekhar Anand, Hot Zone Mechanical Maintenance, Tata Metalkals Limited, Kharagpur, 721301, West Bengal, India
Abhilash Kumar, Electrical & Instrumentation, Tata Metalkals Limited, Kharagpur, 721301, West Bengal, India

ID 924  Power Management System
Tushar Sinha, Electrical & Digital Department, Tata Metalkals Limited, Kharagpur, 721301, West Bengal, India
Tushar K Mandal and Pankaj Pradhan, Electrical Department, Tata Metalkals Limited, Kharagpur, 721301, West Bengal, India

ID 928  Prediction of Trace Elements in Blast Furnace Hot Metal
Barun Kumar, Digital Solution Architect, IT & Digital, Tata Metalkals Limited, Kharagpur, 721301, West Bengal, India
Hindol Bose, Assistant Manager, Quality Assurance, Tata Metalkals Limited, Kharagpur, 721301, West Bengal, India

ID 932  Sensor Mounted Robot Manipulator for Applications in Ductile Iron Pipe Industry
Abhijeet Kumar, and Om Prakash Bokare, Automations & Robotics, Tata Metalkals Limited, Kharagpur, 721301, West Bengal, India
Vishwajeet Kumar Dwivedi, Electrical & Instrumentation, Tata Metalkals Limited, Kharagpur, 721301, West Bengal, India

6:00 – 7:45 pm, MONDAY  Education  Room 5
Session Chair: Deasylina da Ary, Universitas Negeri Semarang, Indonesia

ID 655  Interactive Multimedia Plane Geometry-Based Adobe Flash for PGSD Students
Elok Fariha Sari, Nursiwi Nugraheni, Trimurtini, Nugraheti Sismulyash Sb, and Moh Farizoq Irvan, Jurusan Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia
ID 656  Learning Media "Healthy Lifestyle" in the Digital Era in the Pandemic Time  
Eko Purwanto, Sony Zulfikasari, Basuki Sulistio, Feylosofia Putri Agry, Indonesia

ID 657  Tegalan Song as the Identity of Tegal Coastal Community  
Eka Titi Andaryani, Doctoral Student of the Art Education, Semarang State University (UNNES), Jl. Kampus Timur, Sekaran, Kec. Gn. Pati, Kota Semarang, Jawa Tengah, Indonesia  
Totok Sumaryanto, Udi Utomo, and Sunarto, Program Pasca Sarjana, Semarang State University (UNNES), Gedung A Kampus Pascasarjana Jl Kelud Utara III, Semarang, Indonesia

ID 660  Implementing Character and Nationalism in Inclusive Early Childhood Education Institutions  
Diana, Neneng Tasu’ah and Akaat Hasjiandito, Department of Early Childhood Teacher Education, Universitas Negeri Semarang, Indonesia

ID 661  Implementation of Interactive Media Based Interactive Whiteboard in Natural Science Learning to Increase Literacy skills of Pre-service Teacher  
Desi Wulandari, Barokah Isdaryanti, and Farid Ahmadi, Departement of Primary School Teacher Education, Semarang State University, Indonesia

ID 662  The Big Book Media Drawing for Third Class Elementary School  
Deni Setiawan and Siti Nur Sa’adah, Elementary School Teacher Education Department, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 663  The Process of “Kuncup Semarang” Children Dance Choreography as a Conservation Effort of Semarangan Culture  
Deasylna da Ary, Moh. Fathurrahman, Desi Wulandari, A. Busyairi, Fitrria Dwi Prasetyaningtyas and Sukardi Sukardi, Department of Primary School Teacher Education, Faculty of Education, Universitas Negeri Semarang, Indonesia

March 8, 2021 (Monday) - Session: 8:00 – 9:45 pm

8:00 – 9:45 pm, MONDAY  COVID-19 Analytics Competition  Room 1  
Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 671  Measuring the Implicit Memory Bias during Pandemic Covid-19 in University Students  
Liftiah Liftiah, Sukma Adi Galuh Amawidyati, Abdul Haris Fitrianto, and Sugriantanti Sugriantanti, Department of Psychology,Faculty of Education, Universitas Negeri Semarang, Jl. Kampus Timur, Sekaran, Gunungpati, Semarang, Indonesia

ID 674  Analysis of Students’ Academic Burnout and Anxiety during Online Learning in the Covid-19 Pandemic  
Sunawan Sunawan, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia  
Zakki Nurul Amin, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia  
Bambang Sumintono, Malaya University, Malaya, Malaysia  
Anne Hafina, Guidance and Counseling Department Program, Universitas Pendidikan Indonesia, Bandung, West Java, Indonesia  
Ma’rifatin Indah Kholil, Guidance and Counseling Department Program, Universitas Sebelas Maret, Surakarta, Central Java, Indonesia

ID 675  Effective E-learning: Competency Analysis of Pedagogy Technology and Learning Process during the Covid-19 Pandemic  
Muslihah Muslihah, Imam Shofwan, Reni Pawestuti Ambari Sumanto, Tri Murtini, and Fatma Mahanani, Faculty of Education, Universitas Negeri Semarang, Semarang, Indonesia

ID 706  Investigating the Hospitalized Duration of Treatment for Patients Contracted to Covid-19  
Abbas Mahmoudabadi and Maedeh Pourmirza Dogahi, Industrial Engineering & Information Technology Dept., MehrAstan University, Guilan, Iran

ID 709  Designing English-Teaching Model at the Remote Area Schools of Maluku in Covid-19 Pandemic Situation  
Saidna Zulfiqar Bin-Tahir, A Yusdianti Tenriawali, M. Chairul Basrun Umanailo, and Risman Iye, Universitas Iqra Buru, Maluku, Indonesia

ID 1142  Resilient Capacity of Malaysian Schools’ Headteachers in Adversity: A Review  
Hamidah Che Abdul Hamid, Puspa Liza Ghazali, Ahmad Firdause, Nik Hazimi Mohamed Foziah and Eni Noreni Mohamad Zain, Faculty of Business and Management, Universiti Sultan ZainalAbidin. 21300 KualaNerus, Terengganu.Malaysia  
Sukono, Universitas Padjadjaran, Bandung, West Java, Indonesia  
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1171  Courier Company Ranking with Sustainable Criteria during the Covid-19 Virus Outbreak using MOORA Method (Case: Courier Companies in Indonesia)  
Mada Umaro, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia  
Muhammad Hisjam and Wahyudi Sutopo, Research Group of Industrial Engineering and Techno-Economics, Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 1210  Innovative Learning Media Based on e-Learning in the New Normal Era  
Muhammad Mushfi El Ig Bali, Hasan Baharun, Ahmad Madanibillah, Chusnul Muali, Lukman, and Nanang Khoirul Anam, Nurul Jadid University, Probolinggo, East Java, Indonesia  
Zamroni, Institut Agama Islam Negeri Samarinda, Borneo, Indonesia  
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia
ID 1213 BTQ Teaching Based on 'Vlog Teachers' on Youtube Channel during Pandemic Era: Theory and Practice of Online Teaching
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

8:00 – 9:45 pm, MONDAY
Healthcare Operations and Healthcare Engineering
Room 2

Session Chair: N. Harraz, Production Engineering Department, Alexandria University, Alexandria, Egypt

ID 834 Modelling Logistics Cost In Hospital: A Case of Medical Products
Chanrong Khem, Department of Industrial Engineering, Mahidol University, Nakhon Pathom, Thailand
Duangpun Kritchanchai, Department of Industrial Engineering, Mahidol University, Nakhon Pathom, Thailand

ID 888 A Capability Index for the Filipino Elderly Home Care: A Community Based Approach
Karlvin V. Pambid, Lawrence G. Vicente, and Marvin I. Norofia, School of Industrial Engineering and Service Engineering Management, Mapúa University, Manila, Philippines

ID 891 Future Trends of Dynamic Clustering in Medical Records: Literature Review and Research Needs
Faiza Renaldi, Devi Fajar Wati, Tania Nafisya, Zaki Tifani Fauzan, and Agya Java Maulidin, Department of Informatics, Jenderal Achmad Yani University, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 944 Literature Review and Research Needs on the Use of REST API for Medical Record Integration
Faiza Renaldi, Hary Suryanto, Devita Dwitama Putri Baron, Azwar Tri Endrayadi, Irma Santikarama, and Agya Java Maulidin, Department of Informatics, Jenderal Achmad Yani University, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 999 Cyclicality, Public Policy, Assignment And Care. Simón Bolívar Hospital Colombia
Wilson A. Pinzón R., Technology Faculty, Francisco José de Caldas District University, Bogotá, Colombia. Fabián Roldán, Facultad de Ingeniería Universidad Javeriana Bogotá, Colombia
Angie P. Hernández, Axa Colpatria. Colombia
Diego Karachas, School of Basic Sciences, Technology and Engineering ECEB-UNAD National Open and Distance University Bogotá, Colombia. José M. Díaz P., UVD Business School, Universidad Minuto de Dios, Bogotá, Colombia.
Carlos A. León G., Porvenir S.A. Colombia

ID 901 An Overview of Radon Concentrations and Risk Factors in Elementary School Classrooms: Systematic Literature Review 2010-2020
Astuti, Department Occupational Health and Safety, Faculty of Public Health, University of Indonesia, Depok, 16424, Indonesia
Mila Tejamaya, Department Occupational Health and Safety, Faculty of Public Health, University of Indonesia, Depok, 16424, Indonesia

ID 930 Profile of Bioaerosol Contamination in Indoor Air Primary School: Systematic Literature Review 2016 - 2020
Mila Tejamaya, Department Occupational Health and Safety, Faculty of Public Health, University of Indonesia, Depok, 16424, Indonesia

ID 791 Master Surgical Schedule with Minimized Blocking Between Stages and Leveled Bed Occupancy
D. Sheweita, H. Fors, and N. Harraz, Production Engineering Department, Alexandria University, Alexandria, Egypt

8:00 – 9:45 pm, MONDAY
Operations Management
Room 3

Session Chair: Nikosinathi Siyabonga Kubheka, University of Johannesburg, Doornfontein, Johannesburg, 2092, South Africa

ID 827 The Determinants of Capital Structure in Manufacturing Companies Listed on the Indonesia Stock Exchange
Widaryanti, Accounting Department, Sekolah Tinggi Ilmu Ekonomi Pelita Nusantara, Semarang, Indonesia
Wisdalia Maya Sari, Faculty of Economics and Business, Bina Insan University, Lubuklinggau, Sumatera Selatan Indonesia
Kurniati Karim, Sekolah Tinggi Ilmu Ekonomi (STIE) Sakti Alam Kerinci, Jambi, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 991 Room for Improvement? – Current issues in highly automated manufacturing
Christoph Szedlak, Kristin Wagner, and Bert Leyendecker, University of Applied Sciences Koblenz, Faculty of Operations Management, Konrad-Zuse-Str. 1, 56075 Koblenz, Germany

ID 994 Automated decisional process for material and equipment selection: Application to the selection of material for water pipes
Afaf Jghamou, Control and Mechanical Characterization of Materials and Structure Laboratory, ENSEM, Hassan II University of Casablanca, Casablanca, Morocco
Salma Lahbabi, Engineering Research Laboratory (LRI) ENSEM, Hassan II University of Casablanca, Data Modeling Simulation, Mohammed VI Polytechnique University (UM6P), Morocco
Fouda Riane, Complex Systems and Interactions, Industrial Engineering Department, Ecole Centrale Casablanca, Casablanca, Morocco

ID 889 Scheduling Footwear Moulding Injection Machines for a Long Time Horizon
Parisa Sadeghi, Luis Guardão and Rui Diogo Rebelo, INESC TEC - Technology and Science, Campus da FEUP, Rua Dr. Roberto Frias, Porto, Portugal
José Soeiro Ferreira, INESC TEC - Technology and Science and Faculty of Engineering, University of Porto, Rua Dr. Roberto Frias, Porto, Portugal
ID 968 Flexible Job-Shop Scheduling Problem with Sequencing Flexibility for Just-In-Time Production Systems
Alejandro Vital-Soto and Jessica Olivares-Agulla, Shannon School of Business, Cape Breton University, Sydney, NS, B1P 6L2, Canada

ID 927 Optimum Maintenance Decision using Reliability Analysis
Md. Ariful Alam, Dept. of Industrial and Production Engineering, Bangladesh Army University of Science and Technology, Saidpur, Bangladesh
Kazi Arif-Uz-Zaman, Rafat Mahmud Hridoy, and Md. Rafiquzzaman, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh

ID 850 Investigation of Cracks and Damages at the Bends of Soot Blower tubes
Nkosinathi Siyabonga Kubheka and Daramy Vandi Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Level 7, John Orr Building, 47 Nind Street, Doornfontein, Johannesburg, 2092, South Africa

8:00 – 9:45 pm, MONDAY
Session Chair: Pravin P. Tambe, Operations Management & Decision Sciences, Indian Institute of Management Tiruchirappalli, India

ID 823 Comparative Analysis of Integrating Multiple Filter-Based Feature Selection Methods Using Vector Magnitude Score on Text Classification
Abubakar Ado, Mustafa Bin Mat Deris and Noor Azah Binti Samsudin, Faculty of Computer Science and Information Technology, Universiti Tun Hussein Onn Malaysia, Batu Pahat 86400, Malaysia
Abdulkadir Abubakar Bichi, Computer Science Department, Universiti Teknologi Malaysia, Johor, Malaysia
Aliyu Ahmed, Computer Science Department, Bauchi State University, Gadau, Nigeria

ID 860 Conceptual Model of Stock Price Movement Prediction using Combinative Machine Learning
Ervandio Irzyky Ardyanta, Hasrini Sari, and Aditya Parama Setiaboeid, Industrial Engineering and Management Department, Institut Teknologi Bandung, Bandung, Indonesia

ID 844 Resiliency of Manufacturing Systems in the Industry 4.0 Era – A Bibliometric Analysis
Ahmad E. Elhabashy, Sara El-Breshy, and Hadi Fors, Production Engineering Department, Alexandria University, Alexandria, 21544, Egypt
Asmaa Harfoush, School of Mechanical, Industrial, and Manufacturing Engineering, Oregon State University, Corvallis, OR, 97331, USA

ID 881 Critical Success Factors for Internet of Things (IoT) Implementation in Automotive Companies: Literature Review
Inaki Maulida Hakim, Department of Industrial and Systems Engineering, Faculty of Industrial Technology and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia and Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia
Moses Laksono Singgih and I Ketut Gunarta, Department of Industrial and Systems Engineering, Faculty of Industrial Technology and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 373 Quantitative Analysis of the Simultaneity in Technological Innovation in the Colombian Industry Towards The Industry 4.0 Period 2007-2016
Diego Karachas, Oscar Alejandro Vázquez Bernal, and Julio Cesar González Silva, Escuela de Ciencias Básicas, Ingeniería y Tecnología, Universidad UNAD, Bogotá, Colombia

ID 899 A Genetic Algorithm Approach for Scheduling Jobs on Identical Parallel Machines
Pravin P. Tambe, Operations Management & Decision Sciences, Indian Institute of Management Tiruchirappalli, India

8:00 – 9:45 pm, MONDAY
Session Chair: Ika Ratnaningrum, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia

ID 664 Online Learning as Education Technology Implementation in Elementary Schools of Semarang City
Budiyono, Kustiono, Heri Triluqman BS, and Sony Zulfikasari

ID 665 Innovation of Curriculum Content Proportion in the Khilafah and Jihad Theme to Minimize Students’ Exposure to Radicalism at Public Madrasah Aliyah in Semarang (Solutive Efforts to Analyze Content of Islamic Education Learning Tools Syllabus)
Ali Sunarso, PGSD FIP Semarang State University, Indonesia

ID 666 Makakamba-makakimbi: the original religion of the donggo community before entering the official religion in BIMA
Usman Jafar, Hukum Tata Negara Islam Fakultas Syariah and Hukum, UIN Alauddin Makassar, Gowa, 92175, Indonesia
Surayah Rasyid, Sejarah dan Kubadhayaan Islam Fakultas Adab dan Humaniora, UIN Alauddin Makassar, Gowa, 92175, Indonesia
Aksa, Sejarah dan Kubadhayaan Islam Fakultas Adab dan Humaniora, UIN Alauddin Makassar, Gowa, 92175, Indonesia
Sabara, Balai Penelitian dan Pengembangan Agama Makassar, Makassar, 90111, Indonesia
M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 667 Integration of Technology in Learning Science Subjects Elementary School Fostering the Soul of Love of the Motherland
Anri Estiastutti, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia
Atip Nurharini, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia
Kurniana Bektiningsih, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia

ID 668 Creativity and Innovative Choreography through Digital Learning
Atip Nurharini, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia
Ika Ratnaningrum, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia
Muhammad Jazuli, Pendidikan Sendratasik, Fakultas Bahasa dan Seni, Universitas Negeri Semarang, Indonesia
ID 669 The Effect of Work Motivation and Organisation Atmosphere On The Tutors’ Performance At Ex-Karisidenan Kedu and Ex-Karisidenan Semarang Central Java  
Hendra Dedi Kriswanto, Departemen of Nonformal education, Faculty of Education, Universitas Negeri Semarang, Indonesia  
Sugito Sugito, Departemen of Nonformal education, Faculty of Education, Universitas Negeri Yogyakarta, Indonesia  
Imam Shofwan, Departemen of Nonformal education, Faculty of Education, Universitas Negeri Semarang, Indonesia  

ID 670 Online Animated Video-Based Educational Media Innovation Powtoon in Dance Art Learning in Elementary School  
Ika Ratnaningrum and Atip Nurharini, Pendidikan Guru Sekolah Dasar, Fakultas Ilmu Pendidikan, Universitas Negeri Semarang, Indonesia  

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March 9, 2021 (Tuesday) - Session: 8:00 – 9:45 am

8:00 – 9:20 am, TUESDAY    Global Engineering Education I  
Room 1  
Session Chair: Sheikh F. Ferdous, Indiana State University, Terre Haute, IN 47809, USA

8:00 – 8:20 (Tuesday) – Room 1  
Dr. David Lin Weidong  
Assistant Professor  
Singapore Institute of Technology (SIT)  
Certified Six Sigma Black Belt by American Society of Quality.

ID 241 An Integrated Engineering Education Alignment Model towards Industry 4.0  
W. D. Lin and M. Y. H. Low, Singapore Institute of Technology, Singapore

8:20 – 8:40 (Tuesday) – Room 1  
Josephine D. German  
Associate Professor  
School of Industrial Engineering and Engineering Management  
Mapua University  
Manila, Philippines

ID 475 Employability and Achievement of Program Educational Objectives: A Graduate Tracer Study for Industrial Engineering (IE), Engineering Management (EMG), and Service Engineering Management (SEM) Programs of an HEI in the Philippines  
Josephine D. German, Ma. Lourdes O. Buan, Alyana Bianca G. Carreon, and Marjorie Joyce D. Ochoa  
School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

8:40 – 9:00 (Tuesday) – Room 1  
Dr. Boon Leing TAN  
Guest Professor  
Xi’An International University  
Singapore

9:00 – 9:20 (Tuesday)  
Sheikh F. Ferdous  
Department of Applied Engineering and Technology Management  
Indiana State University  
Terre Haute, IN 47809, USA

ID 090 Comparing Ph.D. in Engineering Management and Technology Management Programs  
Sheikh F. Ferdous, M. Affan Badar, James N. McKirahan, and A. Mehran Shahhosseini, Department of Applied Engineering and Technology Management, Indiana State University, Terre Haute, IN 47809, USA

8:00 – 9:45 am, TUESDAY    Construction Management  
Room 2  
Session Chair: Marvis B. Halili, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila 1002, Philippines

ID 513 Construction industry and women: A review of the barriers  
Abdussalam Shibani, Coventry University, Coventry, United Kingdom

ID 003 Construction Material Ordering Policy Framework: Mamdani Approach  
Siddharth Gupta, Gunjar Ahuja, and Girish Kumar, Department of Mechanical Engineering, Delhi Technological University, Delhi-110042, India  
Rajesh Kumar Singh, Management Development Institute, Gurgaon-122007, India

ID 792 Modelling Critical Success Factors of Green Building towards Sustainable Construction in United Arab Emirates  
Saleh Al-Subari, UTHM, Malaysia
### PARALLEL SESSIONS

**March 7-11, 2021**

#### 8:00 – 9:45 am, TUESDAY

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors/Institutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>903</td>
<td>A Systematic Review to Establish a Definition for Natural Disaster Preparedness</td>
<td>Senuri Sriwardhana and Udayangani Kulatunga, Department of Building Economics, University of Moratuwa, Sri Lanka</td>
</tr>
<tr>
<td>948</td>
<td>A Review of Purchases Intention, Marketing Mix and Brand Loyalty Literature: Mini Review Approach</td>
<td>Muzayyanah Yuliasih and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia</td>
</tr>
<tr>
<td>946</td>
<td>A Review of Structural Relationship of Driver Factors that Influencing Job Satisfaction and Job Performance Literature: Mini-Review Approach</td>
<td>Fairul Hisyam bin Mat, Ahmad Munir Mohd Salleh and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia</td>
</tr>
</tbody>
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**Room 3**

**Session Chair:** Rawinun Praserttaweelap, School of Engineering, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand

- **ID 540** A Literature Survey on Instance Specific Algorithm Configuration Methods
  - Yasemin Eryoldaş and Alptekin Durmuşoğlu, Department of Industrial Engineering, Gaziantep University, Turkey

- **ID 237** AI-Based Human-Robot Cooperation for Flexible Multi-Variant Manufacturing
  - Manuel A. Ruiz García, Erwin Rauch and Damiana Salvalai, Industrial Engineering and Automation (IEA), Free University of Bozen-Bolzano, 39100 Bolzano, Italy
  - Dominik T. Matt, Fraunhofer Italia Research 39100 Bolzano, Italy

- **ID 384** Application of Artificial Intelligence in Additive Manufacturing- A Review
  - M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, INDIA

- **ID 474** Artificial Intelligence: The Solution to Curb the Evergrowing Suicide Rates
  - Yoshia Sandra, Bangalore, Karnataka, India

- **ID 389** How Artificial Intelligence is expected to change Executive Education?
  - Emma Friman and Shahryar Sorooshian, Department of Business Administration, University of Gothenburg, Gothenburg, Sweden

- **ID 366** Toxic Comment Classification using Transformers
  - Akash G., Himanshu Kumar and Bharathi D., Department of Computer Science, Amrita School of Engineering, Coimbatore, India

- **ID 836** Optimal Path planning on Multi-Robot Task Allocation for Manufacturing with Artificial Bee Colony Algorithm
  - Rawinun Praserttaweelap and Somyot Kiatwanidvilai, School of Engineering, King Mongkut’s Institute of Technology Ladkrabang, Bangkok, Thailand

**Room 4**

**Session Chair:** Sabreen Hassan, Industrial Engineering, Alexandria University, Alexandria, Egypt

- **ID 044** Critical Factors of Supplier Selection in the Food and Beverage Industry of Saudi Arabia a Fuzzy-TOPSIS Approach
  - Khaled A. Alshehri and Ahmed A. Albukhari, Department of Industrial Engineering, Faculty of Engineering – Rabigh, King Abdulaziz University, Jeddah, Saudi Arabia

- **ID 119** MISOCP Relaxations for the Unit Commitment Problem with AC Power Flows
  - Deniz Tuncer and Burak Kocuk, Industrial Engineering Program, Sabanci University, Istanbul, Turkey

- **ID 012** Optimal Restoration of Community Structures for Enhancing Interdependent Infrastructure Network Resilience
  - Yasser Almoghathawi, Systems Engineering Department, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia

- **ID 350** Ranking of Indian Business Schools using Modified TOPSIS Method
  - Chandan Jha and Amit Sachan, Operations Management Department, Indian Institute of Management Ranchi, Ranchi, 834001, India

- **ID 409** Supplier Selection using Technique for Order of Preference by Similarity to Ideal Solution (TOPSIS) Method: A Case Study
  - Sulvi Fitriani, and Syifa Luthifiana Asn, Industrial Engineering Dept., Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
  - Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
  - Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

- **ID 734** Theoretical and Simulation Approaches Centrality in Social Networks
  - Mochamad Suyudi, and Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia
  - Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

- **ID 452** Creation of an Instrument to Measure the Impact of a Cluster on its Members’ productivity
  - Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
The Integrated Dial-A-Ride-Problem: Fixed Route Selection
Sabreen Hassan, Islam Ali, and M. Nashat Fors, Industrial Engineering, Alexandria University, Alexandria, Egypt

ID 1049 Social Capital in the Indonesian General Election 2019
Rudy Kurniawan, and Andries Lionardo, Faculty of Social and Political Studies, University of Sriwijaya, Palembang, Indonesia
Ivana, STISIPOL Candradimuka, Palembang, Indonesia
Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia
M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 1041 The Effectiveness Of Demonstration Methods In Learning Poetry For Grade X Students
Ibnu Hajar, Universitas Iqra Buru, Indonesia

ID 1045 The Effectiveness of the Inquiry Method in Appreciating Poetry of The PGRI Waepotih Middle School Students in Buru Regency
A. Yusdianti Tenniawali, Universitas Iqra Buru, Maluku, Indonesia

ID 1028 The Implementation of the Jigsaw Type Cooperative Method On Writing Poetry in Senior High School Buru
In Sulastri Ide Ami, Universitas Iqra Buru, Indonesia

ID 1079 The Role Of Women In Tourism In Sade Village, Lombok, Indonesia
Deviana Mayasari, Ph.D Candidate, Graduate Sociology in Faculty of Social and Politic Sciences, Universitas Brawijaya, Malang, Indonesia
Sanggar Kanto, Siti Kholifah and Bambang Dwi Prasetyo, Postgraduate lecturer in Faculty of Social and Political sciences, Universitas Brawijaya, Malang, Indonesia
M. Chairul Basrun Umanailo, Department of Agricultural and Forestry University of Iqra Buru, Namlea, Indonesia

ID 1063 Increased Patient Satisfaction and Loyalty in terms of Facility Aspects and Health Worker Performance
Checilia Handari Erna Setyorini, Student of Magister Program of Economic Science, STIE AMKOP, Makassar, Indonesia
Hendra Gunawan, Abubakar Betan, Ikhsan Kadir, and Ekafadly Jusuf, STIE AMKOP, Makassar, Indonesia
A. Suparlan Isya Syamsu, Pharmacy Department, Universitas Megarezky, Makassar, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 1027 The Effect of Customer Satisfaction on Customers Loyalty at the Green Mart Supermarket in Namrole City
Firman Gazali Djunaidi, Universitas Iqra Buru, Indonesia

March 9, 2021 (Tuesday) - Session: 9:30 am – 1:00 pm
Keynote Speakers

9:30 – 9:40 am, March 9, Tuesday - Welcome Keynote

Professor Cheong Hee Kiat
President, Singapore University of Social Sciences

9:40 – 10:20 am, March 9, Tuesday - Keynote II – Opening Keynote

Dr. Hamid R. Parsaei
Professor, Dept. of Industrial and Systems Engineering
Texas A&M University, College Station, Texas, USA

10:20 – 11:00 am, March 9, Tuesday - Keynote III

Alex Teo
Vice President & Managing Director – South East Asia
Siemens Digital Industries Software, Singapore

11:00 – 11:40 am, March 9, Tuesday - **Keynote IV**

**Dr. Chung Piaw TEO**
Provost's Chair Professor, Executive Director, Institute of Operations Research and Analytics (IORA)  
NUS Business School, National University of Singapore

11:40 am – 12:20 pm, March 9, Tuesday - **Keynote V**

**Dr. Benny Tjahjono**  
Professor of Supply Chain Management, Sustainable Production & Consumption Research Cluster  
Centre for Business in Society, Coventry University, UK

12:20 – 1:00 pm, March 9, Tuesday - **Keynote VI**

**Dr. Lu ZHEN**  
Dean and Professor, School of Management  
Shanghai University, Shanghai, China

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**March 9, 2021 (Tuesday) - Session: 1:00 – 2:45 pm**

1:00 – 2:45 pm, TUESDAY  
Global Engineering Education II  
Room 1

**Session Chair:** Professor Ir. Dr. Mohammad Yeakub Ali, Universiti Teknologi Brunei, Darussalam

1:00 – 1:20 (Tuesday)

**Dr. Jafri Mohd Rohani**  
Head of the Industrial Engineering Programme  
Department of Materials, Industrial and Manufacturing Engineering  
Faculty of Mechanical Engineering  
Universiti Teknologi Malaysia  
Skudai, Johor, Malaysia

Curriculum Design/ Benchmarking of Industrial Engineering Program

1:20 – 1:40 (Tuesday)

**Dr. Moe Moe Myint**  
Associate Professor  
Department of Information Technology  
Technological University (Mandalay)  
Myanmar

**ID 536**  
An Explorative Study to build the Work Readiness for Engineering Students  
Moe Moe Myint, Thiri Kyaw and Zin May Zaw, Department of Information Technology, Technological University (Mandalay), Myanmar

1:40 – 2:00 (Tuesday)

**Dr. Kinnaleth VONGCHANH**  
Senior Lecturer-Research  
Thermal Laboratory  
Department of Industrial and Mechanical Engineering  
Institute of Technology of Cambodia (ITC)  
Phnom Penh, Cambodia

2:00 – 2:20 (Tuesday)

Soma Chakrabarti, Ph.D.
Parallel Sessions

IEOM Singapore Conference

March 7-11, 2021

Education Programs Team Lead
Ansya Granta
Cambridge, CB1 7EG, UK

2:20 – 2:40 (Tuesday)

Professor Ir. Dr. Mohammad Yeakub Ali
PhD. (NTU, Singapore), MEng (AIT, Thailand), BSc Eng (BUET, Bangladesh)
p.Eng. (Malaysia), C. Eng. (UK), CP. Eng. (Australia), P. Eng (Bangladesh)
FIEB, FBMSME, MIMechE, MIEAust MASME, MIEM
Mechanical Engineering Programme
Faculty of Engineering
Universiti Teknologi Brunei
Brunei Darussalam
Editor-In-Chief: International Journal of Engineering Materials and Manufacture

Quality Assurance in Engineering Education: Accreditation & Its Global Influence

1:00 – 2:45 pm, TUESDAY
Case Studies Room 2

Session Chair: Salwa Beheiry, American University of Sharjah, Sharjah, United Arab Emirates

ID 013 Quality Management System ISO 9001 Implementation in the Telecom Network Operation Centre – A Case Study
Diana Ortiz-Rangel, and Luis Rocha-Lona, ESCA Santo Tomas, Instituto Politecnico Nacional, Mexico City, Mexico
Lila Margarita Bada-Carabajal, Instituto Tecnologico Superior de Alamo Temapache, Veracruz, Mexico
Jose Arturo Garza-Reyes, and Simon Peter Nadeem, Centre for Supply Chain Improvement, University of Derby, Derby, UK

ID 428 Relationship between Gender, Grade Point Average (GPA) and Student Anxiety during the Covid-19 Pandemic
Gadih Ranti, and Linda Teresia, Industrial Engineering Department, Institut Teknologi Indonesia, Indonesia

ID 081 Selection of Reverse Logistics Service Provider Using AHP- Improved PROMETHEE Based Hybrid Approach: A Case Study
Arvind Jayant, Department of Mechanical Engineering, SLIET Deemed to be University, Longowal, Sangrur, Punjab, India

ID 608 The Role of Agencies in Implementing the Social Development Programs to Improve the Well-being of Orang Asli Communities in Terengganu, Malaysia
Norhayati Ab Manaf, Khatijah Omar, and Md Khairul Azwan Md Razali, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Ramlie Abdullah, Research and Publishing Centre, National Academy of Arts Culture and Heritage, 464, Jalan Tun Ismail, Kuala Lumpur, Malaysia
Jumadil Saputra, and Siti Nor Adawiyah Azzahra Kamaruddin, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 704 Deiksis Persona Language Waetawa Maluku
Ilham Bachtiar, and Isal Anwar Hasan, Department of Communication, Institute of Social and Political Sciences Yapis Blak, West Papua, Indonesia
M Rusdi, Department of Islamic Education, University of Iqra Buru, Namelea, 97571, Indonesia
M Chauril Basrun Umanalo, Department of Agricultural and Forestry, University of Iqra Buru, Namelea, 97571, Indonesia
Ismail, Sekolah Tinggi DDI Pangkep, Indonesia

ID 681 The Linkages between Social Media and Political Participation among Malaysian Youth
Rosyidah Muhamad, Rohana Ahmad and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 521 Social Housing and Retrofitting in the UAE – A scoping study
Salwa Beheiry, Hasan Mahmoud, and Vian Ahmed, American University of Sharjah, Sharjah, United Arab Emirates

1:00 – 2:45 pm, TUESDAY
Business Management Room 3

Session Chair: Bachtiar H. Simamora, Binus Business School, Undergraduate Program Management, Bina Nusantara University, Jakarta, Indonesia

ID 164 Qualitative Analysis of Filipino Employees’ Romantic Workplace Relationships
Lenelle M. Modesto, Jhon Kyneth A. Bisnar, Marielle Anne M. Navarro, Paul Albert J. Buiza, and Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines

ID 114 Relationship between the Power Law Distribution of the Number of TV Viewer's Contact with Commercials and Advertising Expenditure
Kizuna Ueda, Ayuko Komura, and Hirohisa Hirai, Department of Industrial Engineering and Management, Kanagawa University, Kanagawa, Japan

ID 004 Socio-Economic Factors Affecting Environmental Awareness and Knowledge of Consumers' Purchasing Behaviour of Green Products: A Study of Semarang Regency
Aries Susandy, Muhammad Mujjuy Ultraq, Nia Budi Puspitasari, Heru Prastawa, Pradita Yusi Akshinta, and Pradhipta Listyawardhani, Industrial Engineering Department, Diponegoro University, Semarang, Indonesia

IEOM Singapore Conference
PARALLEL SESSIONS
March 7-11, 2021

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11th Annual Conference
ID 340  Sustainable Leadership: A Scientific Literature Positioning using Scientometric Analysis
Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia
Andre Septianto, Chemical Engineering Department, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo, Indonesia
Fatkul Anam, Mathematic Education Department, Universitas Wijaya Kusuma Surabaya, Surabaya, Indonesia
Archana Rahmayanti, Environmental Engineering Department, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo, Indonesia
Masdar Wiyono, Informatic Department, Universitas Bahaudin Mudhary Madura, Sumenep, Indonesia

ID 611  The Dimensions of Organizational Culture Influence on Organizational Performance in Pakistan’s Public Banking Sector
Muhammad Imran and Fadillah Ismail, Faculty of Technology and Business Management, Universiti Tun Hussein Onn Malaysia, Batu Pahat, Johor, 86400, Malaysia

ID 509  The Influence of Self-Efficacy, Trust and Affective Commitment on Competitive Share Leadership
Ahmad Rizali, Student of Management Doctoral Program, Universitas Sriwijaya, Palembang, Indonesia
Badia Perizade, Sulastri, and Agustina Hanafi, Faculty of Economic, Universitas Sriwijaya, Palembang, Indonesia

ID 549  Optimization Using Decisions Tree and Linear Programming
Bachtayar H. Simamora and Annabeth Shandika, Binus Business School, Undergraduate Program Management, Bina Nusantara University, Jakarta, Indonesia
Yuli Eni, Binus Business School, Undergraduate Program Marketing, Bina Nusantara University, Jakarta, Indonesia

1:00 – 2:45 pm, TUESDAY  Lean Six Sigma  Room 4
Session Chair: Abdul Hannan, University of the Punjab, Lahore, Pakistan

ID 965  Lean and Kaizen Application in the Healthcare during the COVID-19 Pandemic
Jason Kumar, Candidate for B.S in Mechanical and Industrial Engineering, Northeastern University, Boston, MA 02120, USA

ID 381  Lean assessment studies in a Milk Bottling Plant
M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 403  Leanness Assessment in an Auto Parts Manufacturer
Mahdieh Moghadam Arjmand, and Masoud Rahminezhad Galankashi, Department of Industrial, Mechanical and Aerospace Engineering, Buein Zahra Technical University, Buein Zahra, Qazvin, Iran
Syed Ahmad Helmi, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 81310, Johor Bahru, Malaysia and, Center for Engineering Education, Universiti Teknologi Malaysia, 81310, Johor Bahru, Malaysia

ID 039  Product Defects Analysis Using Six Sigma Method – A Case Study at Rice Milling Company
Indah Chynthia Bella Rosa, Tiara Risa Damayanti, Ade Lita Kusumaningrum, and Sri Susilawati Islam, Industrial Engineering Study Program, Sampoerna University, Jakarta, Indonesia

ID 546  Productivity assessment studies in Solenoid valve manufacturing Company – A Case Study
M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 824  Improving the quality of IndiHome services using six sigma DMAIC method: Case in industrial area
Abby Yazid Bustomy, Master of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia
Dana Santoso Saroso, Master of Industrial Engineering Program, BRI Institute, Jakarta, Indonesia
Sawarni Hasibuan, Master of Industrial Engineering Programme, Universitas Mercu Buana, Jakarta, Indonesia

ID 258  Improvement in the Performance of Computer Numeric Controlled (CNC) Router by OEE for Digital Pattern Manufacturing
Abdul Hannan, Shazray Khan and Sana Hassan, Institute of Quality & Technology Management, University of the Punjab, Canal Bank Road, Lahore, Pakistan

1:00 – 2:45 pm, TUESDAY  Operations Management  Room 5
Session Chair: Yusep Mulyana, Universitas Pasundan, Bandung, Indonesia

ID 1062  Career Development and Motivation for the Quality of Nursing Services
Yuriisa Kuka, Student of Magister Program of Economic Science, STIE AMKOP, Makassar, Indonesia
Hasmin Tamsah,Trimaya Cahya Mutal, Iksan Kadir, and Ekafadly Jusuf, STIE AMKOP, Makassar, Indonesia
Ryryn Suryaman Prana Putra, STIKES Pelamonia Kesdam VII Wirabuana, Makassar, Indonesia
Yusiradi Yusiriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggaliatung, Makassar, Indonesia

ID 1051  Challenges of Public Administration Reform in the Industrial Age 4.0
Derriansa Putra Jaya, University of Sriwijaya, Palembang, Indonesia
Rudy Kurniawan, University of Sriwijaya, Palembang, Indonesia
Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia
Andries Lionardo, University of Sriwijaya, Palembang, Indonesia
M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 1058  Effect of Work Stress and Workload on Employee Performance through the Work Environment
Aryo Dwi Wibowo, Student of Magister Program of Economic Science, STIE AMKOP, Makassar, Indonesia
Hasmin Tamsah, Umi Farida, Irfan Rasyid, and Nasrulnawati Nawati, STIE AMKOP, Makassar, Indonesia
Meizar Rusli, Universitas Pancasila, Jakarta, Indonesia
ID 1066 The Influence of the Use of Regional Information Systems and Organizational Commitment on the Performance of Financial Report Compilation through Work Ability
Wahida, Student of Magister Program of Economic Science, STIE AMKOP, Makassar, Indonesia
Mattalatta, Hasan Nongkeng, Muhammad Yahya, and Irwan Rasyid, STIE AMKOP, Makassar, Indonesia
Ika Swasti Putri, STIE Adi Unggul Bharawa, Surakarta, Indonesia
Saidna Zulfiqar bin Tahir, Universitas Iqra Buru, Maluku, Indonesia

ID 1061 Work Commitment is a Mediator Nursing Management on Quality of Nursing Services Inpatient Community Health Centres
Windawaty Humola, Student of Magister Program of Economic Science, STIE AMKOP, Makassar, Indonesia
Hasmin Tamsah, Trimayya Cahya Mutil, Iksan Kadir, and Ekafadly Jusuf, STIE AMKOP, Makassar, Indonesia
Hendriant Chaniago, Universitas Muslim Indonesia, Makassar, Indonesia
Il Dwi Aristy Putri, Universitas Cokroaminoto, Palopo, Indonesia

ID 1053 Big Data Analytics in Handling Mechanisms of Transforming Healthcare Performance: An Approach Technological Management in Addressing Nurse Workloads in Emergency Department
Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia
Andries Lionardo, and Rudy Kurniawan, University of Sriwijaya, Palembang, Indonesia
Ivana, STISI POL Candradimuka, Palembang, Indonesia
M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia

ID 1059 High Domestic Violence during the Pandemic COVID-19
Yusep Mulyana, Universitas Pasundan, Bandung, Indonesia
Zarina Akbar, Universitas Negeri Jakarta, Indonesia
Henni Zainal, Universitas Indonesia Timur, Makassar, Indonesia
Firzhal Arzhi Jiwantara, Universitas Muhammadiyah Mataram, Mataram, Indonesia
Muhysanur, IAI As’adiyah, Sengkang, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia
Saidan Zulfiqar Bin-Tahir, Universitas Iqra Buru, Maluku, Indonesia

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**March 9, 2021 (Tuesday) - Session: 3:00 – 4:45 pm**

**3:00 – 4:45 pm, TUESDAY**  
**Global Engineering Education III**  
**Room 1**

**Session Chair:** Dr. Devinder Banwet, Vice Chancellor Founding, University of Engineering & Management, Kolkata India

**3:00 – 3:20 (Tuesday) – Room 1**

**Corina Pacher**  
Resources Innovation Center  
Montanuniversitaet Leoben  
Franz Josef-Strasse 18, 8700 Leoben, Austria

**ID 282 Virtual E-Learning Community Hub – For Higher Education in the Raw Materials Sector**

Corina Pacher and Mariaelena Murphy, Resources Innovation Center, Montanuniversitaet Leoben, Franz Josef-Strasse 18, 8700 Leoben, Austria

**3:20 – 3:40 (Tuesday) – Room 1**

**Matteo De Marchi**  
Smart Mini Factory lab for Industry 4.0  
Research Group Industrial Engineering and Automation (IEA)  
Free University of Bolzano  
Italy

**ID 249 A Descriptive Analysis for Education and Training on Automation 4.0 in Thailand**

Erwin Rauch and Matteo De Marchi, Industrial Engineering and Automation (IEA), Free University of Bozen-Bolzano, Bolzano 39100, Italy
Prajaks Jitngernmadan, Digital Media and Interaction Laboratory, Faculty of Informatics, Burapha University, Chon Buri 20131, Thailand
Felipe M. Martin, Department of Electrical Engineering, Universidad de Oviedo, Área de Ingeniería de Sistemas y Automática Gijón 33204, Spain

**3:40 – 4:00 (Tuesday) – Room 1**

**Dr. Md. Mizanur Rahman, CEng, Chartered Energy Engineer**  
Senior Lecturer  
School of Mechanical Engineering  
University Technology Malaysia (UTM)  
Skudai, Johor Bahru, Malaysia

**4:00 – 4:20 (Tuesday) – Room 1**
Dr. Tiia Rüütmann  
Associate Professor Engineering Pedagogy/Higher Education Pedagogy  
Ph.D Education (Engineering Pedagogy); M.Sc. Chemical Engineering  
Head of Estonian Centre for Engineering Pedagogy  
School of Engineering  
Tallinn University of Technology TalTech  
Tallinn, Estonia

4:20 – 4:40 (Tuesday) – Room 1

Dr. Devinder Banwet  
Vice Chancellor Founding  
University of Engineering & Management  
Kolkata India  
Professor Emeritus, IIT Delhi

NEP 2020 and Pandemic impact disruption impact on Indian Education: Teaching Learning Evaluation Assessment: Some observations and remedies

3:00 – 4:45 pm, TUESDAY  
**Energy**  
Room 2

Session Chair: B. Kamara, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

**ID 206 Evolution of Energy Culture in Energy Behavior Research in Buildings**  
Dumindu Sooinge, Lalith De Silva and Udayangani Kulatunga, Department of Building Economics, University of Moratuwa, Katubedda, Moratuwa, Sri Lanka  
Gayani Karunasena and Muhammad Nafeque Mahmood, School of Architecture and Built Environment, Deakin University, Geelong, VIC, Australia

**ID 053 Fighting Poverty Gap through Literacy and Electricity: A Case from Indonesia**  
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia  
John Tampi Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia  
Aleksander Purba, Civil Engineering Department, Faculty of Engineering, Universitas Lampung-Bandar Lampung 35145, Indonesia

**ID 199 Fuel from Plastic Wastes for Sustainable Energy and Environment**  
Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa  
Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

**ID 214 Hybrid Al Based Utility-Scale Optimized Renewable Energy Mix**  
Ahmed Al Masarani, and Salwa Ammach, Graduate Student, Master in Energy Engineering, College of Engineering, Effat University, Jeddah, Saudi Arabia  
Asmaa Shams, Electrical and Computer Engineering, College of Engineering, Effat University, Jeddah, Saudi Arabia  
Hadeer Hassan, and Leen Koshak, Computer Science Department, College of Engineering, Effat University, Jeddah, Saudi Arabia  
Tayeb Brahim, Energy Research Lab, College of Engineering, Effat University, Jeddah, Saudi Arabia

**ID 391 Industry 4.0: A Pathway for Development of Geothermal Energy Sector**  
Preyansh Malaviya and M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

**ID 1011 Towards the Development of an Energy Audit Program for Residents in Freetown**  
B. Kamara, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa  
S. Kamara, Department of Mechanical Engineering, Fourah Bay College, University of Sierra Leone, Sierra Leone  
J.A.S. Redwood-Sawyerr, Department of Electrical Engineering, Fourah Bay College, University of Sierra Leone, Sierra Leone  
D.V.V Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

3:00 – 4:45pm, TUESDAY  
**Human Factors & Ergonomics**  
Room 3

Session Chair: Paul Jan V. Saguyod, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

**ID 263 Estimating the reading time of Familiar and Non-Familiar words**  
Sunthon Sangthong, Department of Industrial Engineering, Chulalongkorn University, Bangkok, Thailand  
Arisara Jiamsanguanwong, Department of Industrial Engineering, Chulalongkorn University, Bangkok, Thailand

**ID 143 Redesign of Supermarket Check-Out Counter Using Ovako Working Posture Analysis System (OWAS) and Rapid Entire Body Assessment (REBA)**  
Alfred Joshua S. Aquino, Roland B. Batucal and Edlyn D. Pangilinan, Industrial Engineering Department, Technological Institute of the Philippines, 363 P. Casal, Quiapo Metro Manila, Philippines  
Janina Elyse A. Reyes, Industrial Engineering Department, Technological Institute of the Philippines, 363 P. Casal, Quiapo Metro Manila, Philippines

**ID 558 The Development of Technology Acceptance Model of Train Ticket Booking Application considering Web Quality and Social Influence**
ID 471  The effect of Icon Formats on Recognizability of Traffic Signs
Ratna Sari Dewi and Miftachur Rohmatin, Industrial and Systems Engineering Department, Institut Teknologi Sepuluh Nopember, Kampus ITS Keputih, Surabaya, Indonesia

ID 425  The Effect of Perceived Enjoyment in The Use Of Virtual Reality in The Technology Acceptance Model Of Virtual Reality
Riski Anfin, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia
Aditya Sudirman, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia

ID 417  The Influence of Age on Mental Workload in High Difficulty Assembling Plant
Linda Theresia, Gadih Ranti, and Ni Made Sudri, Industrial Engineering Department, Institut Teknologi Indonesia, Indonesia

ID 467  Workstation Design for Machines on Selected Apparel Manufacturers
Paul Jan V. Saguyod, Almarose C. Villapando and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

3:00 – 4:45pm, TUESDAY  Supply Chain Management  Room 4
Session Chair: Tanja Nathan, Centre for Business in Society, Coventry University, Coventry CV1 5FB, UK

ID 993  Supply Chain Integration in Project-Based Organizations and its Effect on Performance
Younis Jabarzadeh and Hamed Najafi, Department of Management, University of Tabriz, Tabriz, Iran
Vikas Kumar, Bristol Business School, University of the West of England, Bristol, UK
Ali Arjmand Zavoshi, Department of Management, University of Tabriz, Tabriz, Iran

ID 1001  Technology Application in Logistic and Supply Chain Management
Jey Ganesh Sellappah and Habibah @ Norehan Haron, Universiti Teknologi Malaysia
Soheil Z Khan, Islamic University of Madinah, Saudi Arabia

ID 1006  Determination distribution center location of the carton box product using the Center of Gravity, Analytical Hierarchy Process and Transportation method
Beni Rusdianto, Rector of Industrial Engineering Student, Universitas Mercu Buana, Jakarta, Indonesia
Zulfa Fitri Ikatrasnari, Rector of Industrial Engineering Programme, Universitas Mercu Buana, Jakarta, Indonesia

ID 866  Circular Economy Adoption in the Upstream Agri-food Supply Chain: Understanding the Implications of the Two Theoretical Lenses
Niken Kusumowardani, and Benny Tjahjono, Centre for Business in Society, Coventry University, United Kingdom
Cindy Rianti Priadi, Environmental Engineering Study Program, Civil Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 887  Green Retailing Strategy Matrix (GRSM): A Tool-Based Approach in Implementing Green Retailing Strategies in the Philippines
Erika Kristina H. Marasigan, Rosemarie Criselle D. Pugay, and Marvin I. Noroña, School of Industrial Engineering and Service Engineering Management, Mapúa University, Manila, Philippines

ID 935  A Framework for the Operationalisation of Build-to-Rent Housing in Johannesburg, South Africa
Kushanga Kambarami, Department of Urban and Regional Planning, University of Johannesburg, Johannesburg, South Africa
Trynos Gumbo, University of Johannesburg, Department of Town and Regional planning, Johannesburg, South Africa

ID 970  A Conceptual Framework for Adopting Ambidexterity in Circular Supply Chains
Tanja Nathan, Benny Tjahjono, Jason Begley and Jordon Lazell, Centre for Business in Society, Coventry University, Coventry CV1 5FB, UK

3:00 – 4:45 pm, TUESDAY  Operations Management  Room 5
Session Chair: La Ode Amijaya Kamalussin, STIE Nobel Indonesia, Makassar, Indonesia

ID 1018  Analysis of the Implementation of Regional Regulations Concerning Building Licenses
Zaini Munawir, Faculty of Law, Universitas Medan Area, North Sumatera, Indonesia

ID 1019  Juridical Overview of Existence Community Customary Forests
Mustamam, Faculty of Law, Universitas Islam Sumatera Utara, North Sumatera, Indonesia

ID 1048  Swimming Exercise Model Policy Using Straps as Aid for Beginners
Meirizal Usra and Andries Lionardo, University of Sriwijaya, Palembang, Indonesia
M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia
Rudy Kurniawan, University of Sriwijaya, Palembang, Indonesia
Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia

ID 1047  The Capability and Electability of Local Government in Improving Administration Development
Ivana, STISISIPOL Candraelmuka, Palembang, Indonesia
Chairun Nasirin, College of Health Sciences (STIKES), Mataram, Indonesia
Rudy Kurniawan, University of Sriwijaya, Palembang, Indonesia
March 9, 2021 (Tuesday) - Session: 5:00 – 6:45 pm

5:00 – 6:45, TUESDAY
Global Engineering Education IV
Room 1
Session Chair: Dr. Sara Elzarka, Arab Academy for Science, Technology & Maritime Transport, Alexandria Egypt

5:00 pm, Tuesday

Dr. Sara Elzarka
Dean
International Transport & Logistics Institute
Arab Academy for Science, Technology & Maritime Transport
Alexandria Egypt

5:20 pm, Tuesday

Dr. Deepak L. Waikar
Managing Partner, EduEnergy, Singapore
Chair, The IEEE Education Society Chapter, Singapore

ID 1300 Be an Edutainer to Mesmerise the Learners

5:40 pm, Tuesday

Dr. Nguyễn Văn Họp
Dean, School of Industrial engineering and management
International University - Vietnam National University of HCMC
Ho Chi Minh City, Vietnam

6:00 pm, Tuesday

Assoc. Prof. Korakan PASOMSOUK
Head, Department of Mechanical Engineering
Faculty of Engineering
National University of Laos
Sokpaluang Campus
Laos

6:20 pm, Tuesday

Dr. V Vasu
Associate Professor
Dept. of Mechanical Engineering
National Institute of Technology (NIT)
Warangal, India

Learning through community service-based projects

5:00 – 6:45 pm, TUESDAY
Supply Chain
Room 2
Session Chair: Nadhilah Hidayah Suryanto, Industrial Engineering Department, Universitas Indonesia, Depok 16436, Indonesia

ID 422 Location Optimization Charging Station of Three-Wheel Electric Vehicle: A Case Study
ID 084   Matching Strategies for Balancing Shipper and Platform Performance in Online Spot Market  
Lala Ayu Kantari, I Nyoman Pujawan, and Niniet Indah Arvitrida, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 087   Modeling an Efficient Cold Chain for Ice Cream Manufacturing in Papua New Guinea  
Benedict C. Tarala, School of Graduate Studies, Mapua University, Intramuros, Manila, Philippines

ID 517   Moderating Effect of Government Regulation on Supply Chain Collaboration and Firm Performance  
Engkos Achmad Kuncoro, Darjat Sudrajat, Hardijanto Saroso and Dicky Hida Syahchari, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 420   Optimization of Location Selection for Electric Motorcycle Charging Station: Distance-based Method Approach  
Rheza Aulia Ramadhan, Bachelor Program of Industrial Engineering Department, Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia

ID 430   A Novel On-line Surface Roughness measuring method  
M.B.Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 149   The use of technology for the industrial revolution  
Kyle Chadman, Hyderabad, Telangana, India

ID 413   A Model for Determining a Location of Information Center for Small Medium Enterprises the Smart City Framework: A Case Study  
Agus Shumas Setyo, Master Program of Industrial Engineering Department, Universitas Sebelas Maret Surakarta Indonesia

ID 257   Digitalization in Industrial Logistics: Contemporary Evidence and Future Directions  
Manuel Woschank, Alexander Kaiblinger, and Philipp Miklautsch, Chair of Industrial Logistics, Montanuniversitaet Leoben, Erzherzog Johann-Strasse 3/1, 8700 Leoben, Austria

ID 007   Smart sustainable manufacturing: From Literature review to a green framework  
Imane Benkhati, Search Results Web result with site links Faculté des Sciences Semlalia Marrakech Casablanca, Grand Casablanca, Morocco

5:00 – 6:45 pm, TUESDAY     Industry 4.0     Room 3
Session Chair: Imane Benkhati, Search Results Web result with site links Faculté des Sciences Semlalia Marrakech Casablanca, Grand Casablanca, Morocco
ID 520   A Novel On-line Surface Roughness measuring method  
M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 430   A Novel On-line Surface Roughness measuring method  
M.B.Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 149   The use of technology for the industrial revolution  
Kyle Chadman, Hyderabad, Telangana, India

ID 257   Digitalization in Industrial Logistics: Contemporary Evidence and Future Directions  
Manuel Woschank, Alexander Kaiblinger, and Philipp Miklautsch, Chair of Industrial Logistics, Montanuniversitaet Leoben, Erzherzog Johann-Strasse 3/1, 8700 Leoben, Austria

ID 007   Smart sustainable manufacturing: From Literature review to a green framework  
Imane Benkhati, Search Results Web result with site links Faculté des Sciences Semlalia Marrakech Casablanca, Grand Casablanca, Morocco

5:00 – 6:45pm, TUESDAY     Automation and Control     Room 4
Session Chair: Semanga Mabuza, Quality and Operations Management Dept., Faculty of Engineering and Built Environment, University of Johannesburg, South Africa
ID 508   Autonomous Electromagnetic Two-speed Transmission for Electric Vehicle  
Ataur Rahman and Nurul Hassan, Department of Mechanical Engineering, Faculty of Engineering, International Islamic University Malaysia, 50728 KL, Malaysia

ID 454   Design and Control of Solar Quadcopter using RF and Arduino  
Sheikh Junaid Yawar, Uzair Ahmed Usmani, Mohsin Ali, Muhammad Mahad and Syed Ali, Department of Electrical Engineering, Sir Syed University of Engineering and Technology, Karachi, Pakistan

ID 180   Design and Implementation of Addressable Fire Detection and Alarm System in Ready-made Garments Sector of Bangladesh  
Alak Barua, Department of Electrical and Electronics Engineering, American International University-Bangladesh, Dhaka, Bangladesh

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ID 076  Modeling and Fuzzy Control of a PWM Converter Feeding DC Machine
Bedoud Khouloud, Merabet Hichem, Bahi Tahar, Alimi Latifa, Drici Djamel and Oudjani Brahim, Research Center in Industrial Technologies (CRTI), P.O. Box 64, Cheraga, Algeria
Bahi Tahar, Automatic Laboratory and Signals (LASA), Badji Mokhtar University, Annaba, Algeria

ID 724 Performance Evaluation of Virtualized Networks to Serve the Smart IoT Applications
Mohamed Abdellateef and Hussein A. Elsaied, Electronics and Communications Engineering Department, Ain Shams University, Cairo, Egypt
Michael N.A. Ibrahim, Electronics and Communications Engineering Department, Ain Shams University and The British University in Egypt (BUE), Cairo, Egypt

ID 699 Parking System Development Using Vehicle License Plate Identification with IoT Model to Support Industrial Era 4.0
Bangkit Setya Pambudi and Slamet Winardi, Narotama University, Faculty of Computer Science, Jalan AR Hakim 51, Surabaya 60117, Indonesia
Dadang Supriyatno, Surabaya State University, Department of Civil Engineering, Jl. Lidah Wetan, Surabaya 60213, Indonesia
Benediktus Anindito and Immah Inayati, 1Narotama University, Faculty of Computer Science, Jalan AR Hakim 51, Surabaya 60117, Indonesia
Wahyu Mulyo Utomo, Faculty of Electrical and Electronic Engineering, Universiti Tun Husien Onn Malaysia
Sri Wiwoho Mudjanarko, Narotama University, Department of Civil Engineering, Jalan AR Hakim 51, Surabaya 60117, Indonesia

5:00 – 6:45 pm, TUESDAY   IEOM-FlexSim Student Simulation Competition  Room 5
Session Chair: David Chan, Advent2 Labs, Singapore
Finalists out of more than 100 teams. Please note that this list is ordered only by team number, not merit.

<table>
<thead>
<tr>
<th>Team number</th>
<th>Institution</th>
</tr>
</thead>
</table>
| 1. IEOM_FlexSim_04 | Shahjalal University of Science and Technology, Bangladesh  
Konkon DAS, Tamanna Akther Khan RIMA and Md Junnun Bashar KHAN |
| 2. IEOM_FlexSim_30 | Singapore Institute of Technology |
| 3. IEOM_FlexSim_32 | Singapore Management University  
GOH Bee Keow and BINIT AMEYA SALKAR |
| 4. IEOM_FlexSim_62 | La Consolacion University Philippines  
Joshua TIZON, Ma Christina ROQUE and GUAN Chris Anghelo |

March 9, 2021 (Tuesday) - Session: 7:00 – 8:45 pm

7:00 pm (Tuesday)
Bertha Maya Sopha, Ph.D.
Associate Professor and Former Director of Industrial Engineering  
Universitas Gadjah Mada, Indonesia  
Chair of Indonesian Association of Industrial Engineering Higher Education Institution (BKSTI)

Industrial Engineering Education in Indonesia

7:20 pm (Tuesday)
Hemlal Bhattarai
Dean, Research and Industrial Linkages (DRIL)  
Lecturer: Department of Electrical Engineering  
Royal University of Bhutan  
Jigme Namgyel Engineering College  
Dewathang  
Samdrup Jongkhar  
Bhutan

Perspective on Academic, Research and Linkages in the near future

7:40 pm (Tuesday)
Prof. Ir. Dr. Mohd Khairol Anuar bin Mohd Ariffin  
Professor of Manufacturing Engineering
ID 1022  The Effect Of Self-Effect On Student Learning Achievement

8:20 pm (Tuesday)

TBA

7:00 – 8:45 pm, TUESDAY  Higher Education  Room 2

Session Chair: Markus Hartono, Department of Industrial Engineering, Faculty of Engineering, University of Surabaya, Surabaya, Indonesia

ID 957  Analysis of Digital Marketing Strategies in the era of the COVID-19 Pandemic in Private Higher Education
Alvin Ramadhan, Students on a Management Study Program, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia
Mujri Gunarto, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia

ID 962  Organizational Culture and Job Motivation Effect to Increase Employee Satisfaction
Adelia Ainayya Salsabila, Mahendra Fakhri, Putu Nina Madiawati, Romat Saragih, and Benny Kurnia, School of Communication and Business, Telkom University, Indonesia

ID 995  A Review of Contributing Factors on Job Satisfaction and Employees’ Turnover Literature: Mini-Review Approach
Aprison, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 832  Identifying the Level of Perceived Learning Engagement and Motivation in Mandarin: An Application of Mobile-Assisted Language Learning (MALL) Classes
Nurul Ain Chua Binti Abdullah, Azza Jauhar Ahmad Tajuddin, Roswati Abdul Radhi and Mazlina Ahmad, Center for Foundation and Continuing Education, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Goh Ying Soon, Universiti Teknologi MARA, 54000 Kuala Lumpur, Wilayah Persekutuan Kuala Lumpur, Malaysia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 810  Are Grit, Fairness and Service Organizational Citizenship Behavior New Factors That Influence Employee Retention? An Empirical Study at Indonesian Hotel Industry
Munawaroh, Edi Abdurachman, Mohammad Hamsal, and Yosef Dedy Pradipto, Bina Nusantara University, Binus Business School, Doctor in Research Management, Indonesia

ID 925  Kansei Engineering and Self Determination Theory (SDT) for Sustainable Service Design: An Empirical Study on Coworking Space
Markus Hartono, Department of Industrial Engineering, Faculty of Engineering, University of Surabaya, Surabaya, Indonesia

7:00 – 8:45 pm, TUESDAY  Technical Session  Room 3

Session Chair: Muhammad Bilal, University of Engineering and Technology Lahore, Pakistan
ID 1010  Managing Supply and Demand on Primary commodities using Mobile-Based Participatory GIS
Faiza Renaldi, Asep Iq Hadiana and Agya Java Maulidin, Dept. Of Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Abdul Taib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1023  The impact of culture and Organization culture in Lean manufacturing initiatives in Lean Manufacturing (LM) companies South Africa.
John Zvidzayi, PhD student, MSc (MSOM), BTech (Mechanical & Production Engineering), University South Africa

ID 1039  Optimal Promotional Effort and Pricing Policies for a Multiple Item Innovation Diffusion Model involving Fuzzy Parameters
Sunita Mehta, Department of Applied Mathematics, Amity Institute of Applied Sciences, Amity University, Noida, 201301, India and Department of Mathematics, Shri Ram College of Commerce, University of Delhi, India
Kuldeep Chaudhary, Department of Applied Mathematics, Amity Institute of Applied Sciences, Amity University, Noida, 201301, India
Shivani Bali, Associate Professor, Lal Bahadur Shastri Institute of Management, Dwarka, New Delhi – 110075, India

ID 1012  Safety Performance of Signalized Intersections in Abu Dhabi, Interview Analysis
Saleh Al-Subari, UTHM, Malaysia

ID 1067  Design and Analysis of Joint Torque Sensor for Safe Human-Robotic Collaboration
Muhammad Bilal and Sajid Iqbal, Department of Mechatronics and Control Engineering, University of Engineering and Technology Lahore, Pakistan
Muhammad Nadeem Akram, Mechanical, Automotive, and Materials Engineering Department, University of Windsor, Windsor, Ontario, Canada

ID 1021  Regional Government Readiness in Dealing with the Eras of Industri 4.0 Revolution in the Industrial Department of Mojokerto City East Java
Ahmad Hasan Afandi, and Dian Wijaya, Department of Social and Political Sciences Majapahit Islamic University, Mojokerto, Indonesia
M Chairul Basrun Umanailo, Department of Agricultural and Forestry, University of Iqra Buru, Namlea, 97571, Indonesia
Busyairi Ahmad, Institut Ilmu Sosial dan Ilmu Politik Yapis Biak, Indonesia

ID 1017  Valuation for High-Risk Coal Mining Project Case Study: PT. Berau Coal Block Parapatan
Feri Indrayana, Executive MBA Student, School of Business and Management Institute of Technology Bandung, Bandung, Indonesia
Yunieta Anny Nainggolan, Lecturer of Business Risk and Finance Interest Group, School of Business and Management Institute of Technology Bandung, Bandung Indonesia

7:00 – 8:45 pm, TUESDAY  
Teaching and Learning  
Room 4
Session Chair: Denna Meidita Fahroza, Universitas Negeri Semarang, Semarang, Indonesia

ID 673  Are You Gritty People? A Study of Passion and Perseverance in University Students
Sukma Adi Galuh Amawidyati, Fatma Kusuma Mahanani, and Isnaeni Mas’udah, Department of Psychology, Faculty of Education, Universitas Negeri Semarang, Jl. Kampus Timur, Sekaran, Gunungpati, Semarang, Indonesia

ID 675  Student Perspective: Satisfaction of e-learning and effectiveness of learning media in Indonesian Universities
Fakhruddin Fakhruddin, Imam Shofwan, Utsman Utsman, Bagus Kisworo, and Hendra Dedi Kriswanto, Department of Nonformal Education, Faculty of Education, Universitas Negeri Semarang, Semarang, Indonesia

ID 676  recognitional authority in the implementation in the implementation of village governments to strengthen the existence of indigenous people in sumbawa regency and west sumbawa regency (review of law number 6 of 2014 concerning villages)
Ahmad Yamin, Supriyadi, Dianto, Ashari, and Geatriana Dewi, Lecturer Faculty Of Law, Samawa Rea Institute Of Social And Cultural Science, Sumbawa Besar Nusa Tenggara Barat, Road: Olat Maras, Pernek Village, Moyo Hulu District, Sumbawa Regency, Indonesia

ID 679  Whole Language as a Language Learning Approach
M. Riyanton, Mustasyfa Thabib Kariadi, Vera Krisnawati and Nia Ulfa Martha, Universitas Jenderal Soedarman, Indonesia
Umi Ana Setiani, Universitas Peradaban, Indonesia

ID 680  The Influence of Organizational Citizenship Behavior (OCB) and Organizational Commitment Towards Teachers’ Performance in Madrasah Aliyah in Bitung
Rivai Bolotio, Institut Agama Islam Negeri Manado, Sulawesi Utara, Indonesia
Ardianto, Institut Agama Islam Negeri Manado, Sulawesi Utara, Indonesia
Nikmala Nemin Kahurudin, Institut Agama Islam Negeri Manado, Sulawesi Utara, Indonesia
Lukman Arib, Madrasah Aliyah Alkhaizat Bitung, Sulawesi Utara, Indonesia

ID 672  Multimedia-Based Big Book Media to Improve Reading Skills in Elementary School
Sukardi and Denna Meidita Fahroza, Elementary School Teacher Education Department, Faculty of Science Education, Universitas Negeri Semarang, Semarang, Indonesia

7:00 – 8:45 pm, TUESDAY  
TQM  
Room 5
Session Chair: Pravin P. Tambe, Indian Institute of Management, Tiruchirappalli, Tiruchirappalli, India

ID 1102  Relationship between Total Quality Management and Organizational Performance: A case of Abu Dhabi Agriculture and Food Safety Authority
Abdulla Esam Alhamd and Mohd Yamani Bin Yahya, Department of Technology Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia (UTHM) Parit Raja, Batu Pahat, Johor, Malaysia
March 9, 2021 (Tuesday) - Session: 9:00 – 10:30 pm

9:00 – 10:30 pm, TUESDAY    Global Engineering Education VI    Room 1

Global Engineering Education Panel

Panel Chair

Professor Donald M. Reimer
Director of Membership and Chapter Development – IEOM Society
President, The Small Business Strategy Group, Detroit, Michigan, USA
Adjunct Faculty – A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University, Southfield, Michigan, USA

Panel Speakers

Dr. Manuel Woschank
Senior Lecturer, Senior Researcher and Chair of Industrial Logistics
Montanuniversitaet Leoben, Austria
Adjunct Associate Professor at the Faculty of Business, Management and Economics at the University of Latvia

Dr. Erwin Rauch
Assistant Professor in Manufacturing Technology and Systems
Head of the Smart Mini Factory laboratory for Industry 4.0 application
Free University of Bolzano, Italy

Dr. Nidhi M B
Associate Professor at Mechanical Engineering Dept.
Mar Baselios College of Engineering and Technology
Nalanchira, Trivandrum, Kerala, India
Professor Don Reimer

March 10, 2021 (Wednesday) - Session: 8:00 – 9:45 am

8:00 – 9:20 am, WEDNESDAY  Industry 4.0 / Industry Solutions I    Room 1
8:00 – 8:20 (Wednesday) – Room 1

Richard J. Sherman
Senior Fellow, Supply Chain Centre of Excellence
Tata Consultancy Services (TCS)
Austin, Texas, United States

8:20 – 8:40 (Wednesday) – Room 1

Ts. Dr. Fairul Anwar Abu Bakar
Head of Postgraduate Studies
Senior Lecturer
Quality Engineering Section
Universiti Kuala Lumpur
Malaysian Institute of Industrial Technology (MITEC)

8:40 – 9:00 (Wednesday) – Room 1

Kar Heng LEE
TBSS Center for Electrical and Electronics Engineering, Singapore
Cong Ty TNHH Cong Nghe va Giam Sat Radar TBSS, Vietnam

Being an Engineerpreneur in Vietnam as a Singaporean

9:00 – 9:20 (Wednesday) – Room 1

Paul W Bradley
Chairman and CEO
Caprica International
Singapore

8:00 – 9:45 am, WEDNESDAY  Sustainability in Supply Chain, Enterprise Operations and Strategies  Room 2

Session Chair: Hussein Al-Yafei, Qatar University, Doha, Qatar

ID 001 Circular Economy: Exploratory Study of Steel Industry in Thailand
Vichathorn Piyathanavong, School of Manufacturing Systems and Mechanical Engineering (MSME), Sirindhorn International Institute of Technology (SIIT), Thammasat University, 99 Moo 18, Paholyothin, Klong Luang, Pathum Thani 12120, Thailand
School of Knowledge Science, Japan Advanced Institute of Science and Technology, Japan, 1-1 Asahidai, Nomi, Ishikawa, 923-1292, Japan
Jose Arturo Garza-Reyes, Centre for Supply Chain Improvement, The University of Derby, Kedleston Road Campus, Derby, DE22 1GB, UK
Van-Nam Huynh, School of Knowledge Science, Japan Advanced Institute of Science and Technology, Japan, Asahidai, Nomi, Ishikawa, Japan
Sun Olapiriyakul, School of Manufacturing Systems and Mechanical Engineering (MSME), Sirindhorn International Institute of Technology (SIIT), Thammasat University, 99 Moo 18, Paholyothin, Klong Luang, Pathum Thani 12120, Thailand
Jessada Karnjana, National Electronics and Computer Technology Center (NECTEC), National Science and Technology Development Agency (NSTDA), 111 Thailand Science Park (TSP), Phahonyothin, Klong Luang, Pathum Thani 12120, Thailand

ID 300 Green Supplier Selection Using Fuzzy Approach of AHP and VIKOR – A Case Study in an Indonesian Pharmaceutical Company
Brigitta Adinda Sarasati, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 106 Identification of Challenges and Benefits of Product Certification on Small and Medium Enterprises (SMEs) in Indonesia
Andri Gandhi, Rahmat Nurcahyo, and Djoko Sihono Gabriel, Department of Industrial Engineering, Faculty of Engineering, University of Indonesia, New Campus UI, Depok, 16424, Indonesia

ID 104 Internal and external factors of improving television e-waste management through the supply chain infrastructure in Jakarta-Indonesia
Jerry Kuswara Piton, Rahmat Nurcahyo, and Farinal, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 128 Measuring Sustainability Performance of Logistics Service Providers using AHP
A. Wijayanayake, A.P.K.J. Prabodhika, and D.H.H. Niwunhella, Department of Industrial Management, University of Kelaniya, Dalugama, Sri Lanka

ID 042 Integrated Sustainability Assessment of Sharing Economy Models: The Case for Qatar
Hussein Al-Yafei, Saleh Aseel, Murat Kucukvar, Arwa Al-Karbi, Ahmed Al-Sulaiti, Abdulla Al-Hajri, and Abdulrahman Al-Siddigi, College of Engineering, Qatar University, Doha, Qatar

ID 144 Strategic Development for A Filter Automotive Component Company in Facing The Electric Vehicles Era in Indonesia
Hikari Quarrata’ain Nurhari, Rahmat Nurcahyo, and Djoko Sihono Gabriel, Industrial Engineering Dept., Universitas Indonesia, Depok, Indonesia

ID 515 The main obstructions that firms encounter in their work towards a green supply chain
Matilda Börlin, Rebecka Jarlén, Lisa Olsson, and Shahryar Sorooshian, University of Gothenburg, Sweden
ID 473  Additive Manufacturing of Titanium Alloys
M.B.Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 270  Futuristic Transportation System developed with QFD
Eleonora Sonnati, Alessandro Cerullo, Elisa Ghirlandi, Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, and Gian Maria Santi, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 329  Influence of Geographic Information System on Natural Disaster Management in the United Arab Emirate
Saif Ali Alblooshi, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat, Johor, Malaysia
Mohd Yamani Bin Yahya, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia

ID 266  Innovative Disassembly Sequence Applied to a Virtual Mechanical Reducer
Gian Maria Santi, Leonardo Frizziero, Alfredo Liverani, Martina Tinuper, and Giampiero Donnici, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 273  QFD and SDE applied to the design of a new non-electric folding bike
Francesca Baldrati, Layal Chaks, Elisa Dallacasa, and Leonardo Frizziero, Alma Mater Studiorum University of Bologna, Department of Architecture, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 254  Stylistic Design Engineering (SDE) to Conceptualize a Futuristic Sports Car
Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Daniela Francia, Cristiano Cacialli, Chiara Tuppi and Davide Maneg gia, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 252  Stylistic Design Engineering (SDE) to Conceptualize a New Seven-Seater Car
Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Daniela Francia, Erica Bugli Giuditta Contini and Daniela Harsan, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

ID 318  Stylistic Design Engineering (SDE) to realize a new concept of classic car
Giampiero Donnici, Leonardo Frizziero, Alfredo Liverani, and Gian Maria Santi, DIIN, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, viale Risorgimento 2, 40136 Bologna, Italy
Greta Benni, Alma Mater Studiorum University of Bologna, viale Risorgimento 2, 40136 Bologna, Italy

ID 623  Futuristic Transportation System developed with QFD
Eleonora Sonnati, Alessandro Cerullo and Elisa Ghirlandi, Leonardo Frizziero, Giampiero Donnici, Alfredo Liverani, Gian Maria Santi, Department of Industrial Engineering Alma Mater Studiorum University of Bologna Viale Risorgimento 2 – 40136, Bologna, Italy

8:00 – 9:45 am, WEDNESDAY  Supply Chain Management  Room 4
Session Chair: Narath Bhusiri, HELP Logistics Asia, Singapore 247671, Singapore

ID 027  Conceptual Framework of Performance Improvement in Coffee Production Using Integrated Lean Technique
Yotsaphat Kittichotsatsawat, Ph.D.’s Program in Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai 50200, Thailand
Korrakot Yaibuathet Tippayawong, Department of Industrial Engineering & Excellence Center in Logistics and Supply Chain Management, Chiang Mai University, Chiang Mai 50200, Thailand

ID 113  A Lean Approach for Reducing Inventory for a Mexican Convenience Store Network
Mariana Villarreal, Mireya Elizondo, Vanessa Ocañas and Bernardo Villarreal, Department of Industrial Engineering, Universidad de Monterrey, San Pedro Garza Garcia, N.L., Mexico

ID 010  A Multi-Objective Optimization Model for an Algal Biofuel Supply Chain Integrating Resource Recirculation
Celine Marie A. Solis, Jayne Lois G. San Juan, and Dennis E. Cruz, Industrial Engineering Department, De La Salle University, 2401 Taft Avenue, Manila, Philippines

ID 047  A Sequential Heuristic for Production-Inventory Planning and Supplier Selection based on Quantity Discounts in a Component Remanufacturing Environment
M. Agnel Xavier Fernando and M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bengaluru, India

ID 130  Analysis of Supply Chain Complexity Sub-Dimensions for Automobile Industry
Niyanta Mehra, Aakriti Khurania, Kshitij Rastogi and S.K. Garg, Department of Mechanical Engineering, Delhi Technological University, Delhi 110042, India

ID 880  Assessment on Delivery Performance of Trading Companies in the Supply Chain of Philippine Power Generation Industry
Jorel T. Hizole, Patricia Camille A. Ocampo, and Marvin I. Norofia, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines

ID 897  Developing Performance Measurement Tool for Slow-Onset Humanitarian Supply Chain Operation
Narath Bhusiri, HELP Logistics Asia, Singapore 247671, Singapore
Huay Ling Tay, School of Business, Singapore University of Social Sciences, Singapore
8:00 – 9:45 am, WEDNESDAY
Case Studies
Room 5
Session Chair: Grace Lorraine D. Intal, School of Information Technology, Mapua University, Makati City, Philippines

ID 1122 Assessments of Student Vulnerability on the Download of Malware Disguised as Cracked Software
Eric B. Blancoflor, Angelo Luise Gonzalez, Christer John Esquerra, Bryelle Nisperos, Dan Christopher Fandiffo and Luis Angelo Pono, School of Information Technology, Mapua University, Makati City, Philippines

ID 1134 Model of Determination of Industrial Center Locations for Small and Medium Enterprises Framework for Smart Cities: Case Study
Agus Shumas Setyo, Master Program of Industrial Engineering Department, Universitas Sebelas Maret Surakarta Indonesia
Wahyudi Sutopo, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Eko Pujianto, Master Program of Industrial Engineering Department, Universitas Sebelas Maret Surakarta Indonesia

ID 1154 Application of Computer Assisted System in Manufacturing Units of Communication Devices
Sonasete Priti, Research Scholar, I & PE Dept, P D A College of engineering, Kalaburagi, India
Hebbal S.S, Principal, P D A College of Engineering, Kalaburagi, India
Qutubuddin S.M., Associate Professor, I & PE Dept, P D A College of Engineering, Kalaburagi, India

ID 1147 The Teaching of EFL Vocabulary through Anticipatory Learning Strategy in Islamic Higher Education Context in Indonesia
Abdul Gafur Marzuki, Santiana, Ana Kulliahana, Alek, Nurul Fadhilah, Besse Darmawati, Saidna Zulfqar Bin-Tahir
English Education Department, Palu State Institute for Islamic Studies (IAIN Palu), Diponegoro Street 94221, Palu city, Central Sulawesi, Indonesia

ID 1148 Smartphone-Assisted Language Learning: A Breakthrough for English Learning Autonomy
Santiana, Fera Sulastra, Aeri Siti Fatimah, Abdul Gafur Marzuki, Saidna Zulfqar Bin-Tahir, and Andi Asrifan, English Education Department, Siliwangi University, West Java, Indonesia

ID 1297 Contemporary Sharia Business Law Formulation (Implementation of Fiqhiyah Rules in E-Commerce Law)
Fauzi Muhammad, Ph.D Candidate of Sultan Thaha Saifuddin State Islamic University Jambi-Indonesia
Muannif Ridwan, Lecturer at Islamic University of Indragiri and Ph.D student of Sultan Thaha Saifuddin State Islamic University Jambi-Indonesia
Nufathri, Ph.D Candidate of Sultan Thaha Saifuddin State Islamic University Jambi-Indonesia
Mubark, Ph.D Candidate of Sultan Thaha Saifuddin State Islamic University Jambi-Indonesia
Syaiful Anwar, Ph.D Candidate of Sultan Thaha Saifuddin State Islamic University Jambi-Indonesia
H. M. Hasbi Umar, Professor of Islamic Law at Ph.D Program of Sultan Thaha Saifuddin State Islamic University Jambi-Indonesia
Abdul Ghafar, Senior Lecturer of Islamic Law at Ph.D Program of Sultan Thaha Saifuddin State Islamic University Jambi-Indonesia

ID 1135 Design of Cashless Payment System with RFID to Improve Services of School Canteen: A Case Study
Roland Jay-Ar R. Espinosa, Aiden Lemuel T. Lumibao, Chloe Ysabel P. Zerrudo, and Grace Lorraine D. Intal, School of Information Technology Mapua University, Manila Philippines

March 10, 2021 (Wednesday) - Session: 9:30 am – 1:00 pm

Keynote Speakers

9:30 – 9:40 am, March 10, Wednesday – Conference Chair Remarks

9:40 – 10:20 am, March 10, Wednesday - Keynote VII

Dr. Victoria Jordan
Vice President – Quality
Emory Healthcare, Atlanta, Georgia, USA

10:20 – 11:00 am, March 10, Wednesday - Keynote VIII

Koh Niak Wu
CEO and CTO
Cosmiqo International, Singapore

4.0 and Us
11:00 am – 11:40 am, March 10, Wednesday - **Keynote IX**

**Dr. Ir. Wahyudi Sutopo**  
Professor, Dept. of Industrial Engineering and Vice Dean  
Universitas Sebelas Maret, Surakarta, Indonesia

11:40 am – 12:20 pm, March 10, Wednesday – **Keynote X**

**Prof. Ruth Banomyong**  
Dean, Thammasat Business School  
Thammasat University, Thailand

*Seamless Logistics Development in ASEAN*

12:20 – 1:00 pm, March 10, Wednesday - **Keynote XI**

**Dr. Alessandro ROMAGNOLI**  
Associate Professor, School of Mechanical and Aerospace Engineering  
Nanyang Technological University, Singapore

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**March 10, 2021 (Wednesday) - Session: 1:00 – 2:45 pm**

1:00 – 2:45, WEDNESDAY  
**Industry 4.0 / Industry Solutions II**  
Room 1  
Session Chair: Dr. Murphy Choy, SSON Analytics, Singapore

1:00 – 1:20 (Wednesday) – Room 1  
**Ashwini Sharma**  
Lean Six Sigma Master Black Belt and Scrum Master  
Continuous Improvement Coach  
Shell, Singapore

1:20 – 1:40 (Wednesday) – Room 1  
**Hirishegan Karuneswaran**  
Co-founder/ CEO  
The verify network (Pvt) Ltd.  
Sri Lanka

1:40 – 2:00 (Wednesday) – Room 1  
**Dr. Murphy Choy**  
Director of Operations and Technology  
SSON Analytics, Singapore  
Certified Advanced Programmer for SAS V9  
Certified Basic Programmer for SAS V9  
DataShaping Certified SAS Professional

2:00 – 2:20 (Wednesday) – Room 1  
**Mark Tan**  
Assistant Director  
Lean Transformation and Innovation Center (LTIC)  
Singapore Institute of Technology, Singapore

**Title of Presentation:** Challenges of leading Lean transformation in SMEs (small medium enterprises)
2:20 – 2:40 (Wednesday) – Room 1

Tan Mei Fang (Ms)
B.Eng (NUS, Singapore), MBB (MA, USA), PMP (USA), PROSCI (USA), Member of ISSSP (USA)
Six Sigma Master Black Belt
Lecturer, Lean Consultant and Coach
Singapore

1:00 – 2:45, WEDNESDAY  Maintenance and Reliability  Room 2

Session Chair: M.B. Kiran, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

Nur Aeni, Cindy Malinda Uscha, Sri Purwati & Nurhadi Wibowo, Industrial Engineering Department, Universitas Indonesia, Jakarta, Indonesia

ID 138  Maintenance Practices in Indonesian Wood and Furniture SMEs: Survey Results
Fathia Nisa, Ghina Haura Tsamarah, Nadia Farah Afief and Zarahmaidai Taurina, Department of Industrial Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 220  Mapping of Maintenance Management Implementation on Automotive Manufacturing in Indonesia
Dika Fajar, M. Agmarnoosa, Prawira A.P, and Rendy R. K., Industrial Engineering Department, Engineering Faculty, Universitas Indonesia, Depok, West Java, Indonesia

ID 231  Measuring the Performance of Office Buildings Maintenance Management in Indonesia
S. Maulana B., Afriandi G., TB. Muhammad K.H., and Daniel F., Industrial Engineering Department, Universitas Indonesia, Salemba, DKI-Jakarta, Indonesia

ID 380  Reliability Centered Maintenance of Circular Loom
M.B.Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 541  Reliability Centered Maintenance of Circular Loom
M.B.Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 057  Reliability of a Polylethen Pipe based on the PENT Model
Latifa Alimi, Kamel Chaoui, and Khouloud Bedoud, Research Center in Industrial Technologies CRTI P.O. Box 64, Cheraga, Algeria
Mechanics of Materials & Plant Maintenance Research Laboratory (LR3MI), Mechanical Eng. Dept., Badji Mokhtar University, Annaba, Algeria, Kamel Chaoui, Mechanics of Materials & Plant Maintenance Research Laboratory (LR3MI), Mechanical Eng. Dept., Badji Mokhtar University, PO Box 12, Annaba 23000, Algeria
Khouloud Bedoud, Research Center in Industrial Technologies CRTI P.O. Box 64, Cheraga, Algeria

1:00 – 2:45, WEDNESDAY  Data Analytics  Room 3

Session Chair: Maryam Sangadji, Universitas Pattimura, Ambon, Indonesia

ID 250  A Review of Machine Learning Methods Applicable to Quality Issues
Cyrus Hoseini, M. Affan Badar, and A. Mehran Shahhosseini, Department of Applied Engineering and Technology Management, Indiana State University, Terre Haute, Indiana 47809, USA
Christopher J. Kluse, Department of Engineering Technology, Bowling Green State University, Bowling Green, Ohio 43403, USA

ID 146  Analytics of Response for Corporate Twitter Accounts Using Text Mining: Case of Japanese Automotive Manufacturers
Yuta Kitano, Management Science and Social Informatics Program, Department of Informatics, The University of Electro-Communications 1-5-1, Chofugaoka, Chofu-city, Tokyo, Japan
Tetsuo Yamada, Management Science and Social Informatics Program, Department of Informatics, The University of Electro-Communications 1-5-1, Chofugaoka, Chofu-city, Tokyo, Japan
Kim Hua Tan, Operations Management and Information Systems, Business School, University of Nottingham, Nottingham, United Kingdom

ID 762  Generating maximum prime patterns using Benders decomposition and Apriori algorithm
Hary Osman, Systems Engineering Department, King Fahd University of Petroleum & Minerals, KFUPM, Dhahran, 31261, Kingdom of Saudi Arabia

ID 412  Configurable Framework for Smart Serious Game Analytics
Linda William, Nur Aisha Khalid, Simon Chan, Muhammad Rizal Ismail, Nelson Chang, Ruan Yang, Elroy Chua, and Zulfami Ashrafi, School of Informatics & IT, Temasek Polytechnic, 21 Tampines Ave 1, Singapore

ID 369  Exploring the Sentiment and Online Review of Multilevel Marketing (MLM) Company Products
Halimaton Saadia Rusli, School of Computer Sciences, Universiti Sains Malaysia, Malaysia
Noor Farizah Ibrahim, School of Computer Sciences, Universiti Sains Malaysia, Malaysia

ID 818  Types of Covid-19 Hoax in Social Media Indonesia
1:00 – 2:45, WEDNESDAY Engineering Management Room 4
Session Chair: Abdalla Alrashdan, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

ID 033 Analysis and operational planning for a kitchen equipment company facing new market needs as a consequence of the COVID-19 pandemic
Carlos M. Linares, and Jorge A. Peinado, Department of Engineering Management, Universidad de Monterrey, San Pedro Garza Garcia, N.L. México
Ricardo Ramirez, Department of Industrial and Systems Engineering, Universidad de Monterrey, San Pedro Garza Garcia, N.L. México
Fernando González-Aleu, Department Engineering, Universidad de Monterrey, San Pedro Garza Garcia, N.L. México
Jesús Vázquez, Innovation and Strategic Intelligence, Advanced Value Chain Institute, San Pedro Garza Garcia, N.L. México

ID 462 Analysis of Workplace Turnover Intentions in Manufacturing Industries of Laguna, Philippines
Richard Drix A. Piatos, Rex Aurelius C. Robielos and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 371 MABENA Strategic Management Model for Local Companies (case study: an Iranian company)
Kaveh Mohammad Cyrus, Assistant Professor, Faculty of Industrial Engineering and Management Systems, Amirkabir University of Technology (Tehran Polytechnic), Iran
Hossein Bahramipour, Master Student of Industrial Engineering, Amirkabir University of Technology (Tehran Polytechnic), Iran

ID 088 Perception of Hotel Customers Based on Nationality: A Comparative Analysis of Reviews and Ratings
Adrian A. Amador, School of Graduate Studies, Mapua University, Muralla St., Intramuros, Manila, Philippines
Rene D. Estember, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St, Intramuros, Manila, Philippines

ID 298 Study of Factors Influencing Room Ambient Temperature Using Design of Experiments
Malek Almobarek and Kepa Mendibil, Design, Manufacturing & Engineering Management Department, University of Strathclyde, Glasgow, UK
Abdallah Alrashdan, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

ID 323 Using Smart Phones to Assessment Road Roughness in the UAE
Saif ALqaydi, Department of Industrial Engineering Management, University of Sharjah, Sharjah, UAE
Waleed Zeida, Department of Civil and Environmental Engineering, University of Sharjah, Sharjah, UAE
Daniel Llort, Department of Federal Roads, Ministry of Energy and Infrastructure, Dubai, UAE
Ahmed Elwakil, Department of Electrical Engineering, University of Sharjah, Sharjah, UAE

ID 720 Churn Prediction for Gym Members Using Artificial Neural Networks Assisted with the Psychological Concept of Habit Formation in The Fitness Industry
May Aldosary, and Abdalla Alrashdan, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

1:00 – 2:45, WEDNESDAY Technical Session Room 5
Session Chair: Khawar Hussain, Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia, 86400, Johor, Malaysia

ID 1123 A Knowledge-Based System for ergonomic application in Indian Manufacturing Industries (KBSEAM)
Sonasaale Priti, Research Scholar, I & PE Dept, P D A College of engineering, Kalaburagi, India
Hebbal S.S, Principal, P D A College of Engineering, Kalaburagi, Kalaburagi, India
Qutubuddin S.M, Associate Professor, I & PE Dept, P D A College of Engineering, Kalaburagi, India

ID 1124 Eco-Efficiency Performance of Airlines in Eastern Asia: A Principal Component Analysis Based Sustainability Assessment
Eman R. Elhmoud, Adeeb A. Kutty, Galal M. Abdalla, and Murat Kucukvar, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar
Muhammet Enis Bulak, Industrial Engineering, Faculty of Engineering and Natural Sciences, Uskudar University, Istanbul, Turkey
Jalal M. Elkharaiz, Authority of Natural Science Research, Tripoli, Libya

ID 1126 Usage Satisfaction of Clarin Hayes Health Youtube ChannelToward Healthy Lifestyle
Rehia Karenina Isabella Barus, Nadra Ideyani Vita, Nina Siti Salmaniah Siregar, Ester Elisabeth Sinaga and Syafruddin Ritonga, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
Waridah Pulungan, Government Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia
Agung Suharyanto, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, Indonesia

ID 1143 Global Retirement and Pensions System Development
Hazimi Foziah, Puspa Liza Ghazali and Azman Alias, Faculty of Business and Management, Universiti Sultan ZainalAbidin. 21300 KualaNerus, Terengggunu, Malaysia
Sukono, Universitas Padjadjaran, Bandung, West Java, Indonesia
Abdul Tailib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia
**ID 1243  Can organic Products be sustainable in present business environment?**
Aftab Alam, School of Management, GD Goenka University Gurgaon-Haryana, India
Syed Mohd Jamal Mahmood, School of Management, GDU, Gurugram, India

**ID 1269  Applications of Waste Relations Matrix (WRM) in Lean Wastes Identification**
Muhammad Ali Khan, Assistant Professor & PhD Scholar, Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan
Awaiz Khatri, Associate Professor, Department of Textile Engineering, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan
Hussain Bux Marr, Meritorious Professor & Ex-Chairman, Department of Industrial Engineering and Management, Mehran University of Engineering and Technology, Jamshoro, Sindh, Pakistan

**ID 1131  Reviewing the Link between Employee Creativity, Innovative Behavior and Organizational Innovation**
Khawar Hussain and Eta Wahab, Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia, 86400, Johor, Malaysia

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**March 10, 2021 (Wednesday) - Session: 3:00 – 4:45 pm**

**3:00 – 4:45, WEDNESDAY  Industry 4.0 / Industry Solutions III  Room 1**

Session Chair: Dr. Ramly Edly, CFR Certification Malaysia

3:00 – 3:20 (Wednesday) – Room 1

**Dr. Edly Ferdin Ramly**
Certification Director
EFR Certification
Johor Bahru, Malaysia

3:20 – 3:40 (Wednesday) – Room 1

**Mr. Mohd Zaki Tumijan**
Trainer / Consultant / Auditor

3:40 – 4:00 (Wednesday) – Room 1

**Dr. Kamarizan Kidam**
Lecturer
UTM Skudai, Johor Bahru, Malaysia

4:00 – 4:20 (Wednesday) – Room 1

**Mr. Hood Atan**
Exergy Management Consultant
IATF Auditor for Afnor Certification, France

4:20 – 4:40 pm (Wednesday)

**Prasanna Balasubramanian**
Program Management
Largest Bigdata Consulting Organization in ASIA
Singapore

4:40 – 5:00 (Wednesday)

**Kamil Mizgier**
Group Manager
Model Development in the area of Enterprise Risk Analytics
BNY Mellon Poland
Zürich, Switzerland

*The Journey to Economic Supply Chain Risk Capital*

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**3:00 – 4:45, WEDNESDAY  Entrepreneurship / Innovation  Room 2**

Session Chair: Shahriar Tanvir Alam, Military Institute of Science and Technology, Mirpur Cantonment, Dhaka-1216, Bangladesh

**ID 408  A Framework Model of Efficiency Measurement in Technology Commercialization for Technology Transfer Office (TTO) using Data Envelopment Analysis (DEA): A Case Study**
Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology and Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
ID 532  Agricultural Price Prediction Models: A Systematic Literature Review  
FD Wihartiko, Departement of Computer Science, IPB University, Indonesia and Departement of Computer Science, Universitas Pakuan, Indonesia
S Nurdii, Departiment of Mathematics, IPB University, Indonesia
A Buono, Departement of Computer Science, IPB University, Indonesia
E Santosa, Departament of Agronomy and Horticulture, IPB University, Indonesia

ID 259  Cases Analysis on Business Model Innovation between Tangible and Intangible Products  
CHEN Si, Graduate School of Business and Finance, Waseda University, Tokyo, Japan
NAGASAWA Shin’ya, Graduate School of Business and Finance, Waseda University, Tokyo, Japan

ID 005  Current Practices on Government Innovation towards Human Capital Development for achieving UAE Vision 2021  
Zayed Hussain Salih Alahmery, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia

ID 534  Design of Business Unit Strategy with a Performance Measuring Approach (Study Case: PT XYZ)  
Riana Magdalena Silltongo and S S., Departement of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan, Taiwan
Andri Cakramihardja, Departament of Industrial Engineering, Atma Jaya Catholic University of Indonesia, Jakarta, Indonesia

ID 533  Designing an Android-Based Burn Rate Pattern Detection Application Model  
Harizki Arie Pradana, Melati Suci Mayasari, Anisah and Yuyi Andrika
Informatics Engineering Department, Atma Luhur Institute of Science and Bussiness, Pangkalpinang, Indonesia
Information System Department, Atma Luhur Institute of Science and Bussiness, Pangkalpinang, Indonesia

ID 372  High-end Disruptive Innovation as Exemplified by BALMUDA Case  
NAGASAWA Shin’ya, Graduate School of Business and Finance, Waseda University, Tokyo, Japan
BANDO Yuji, Graduate School of Business and Finance, Waseda University, Tokyo, Japan

ID 268  Development and Analysis of a Customer-Based Product  
Shahriar Tanvir Alam, Lecturer, Department of Industrial and Production Engineering, Military Institute of Science and Technology, Mirpur Cantonment, Dhaka-1216, Bangladesh

3:00 – 4:45, WEDNESDAY  
Session Chair: Vivek Soni, BULMIM, New Delhi, India

ID 561  AHP-Based Decision Support System for Elevators Selection  
Malek Almobarek, Design, Manufacturing & Engineering Management, University of Strathclyde, Glasgow, UK
Sobhi Mejiaouli, Abdelghani Bours and Abdalla Alrshdan, Industrial Engineering Department, Alfaaisal University, Riyadh, KSA

ID 048  Another Empirical Application of the Similarity Confirmation Method in Evaluating the MADM Methods for a Type-selection Decision Case before Bulk Purchase  
Zheng-Yun Zhuang, Department of Civil Engineering, National Kaohsiung University of Science and Technology, Sanmin District, Kaohsiung, 807, Taiwan (ROC)
Shu-Chin Chang, Department of Accounting, Chung Yuan Christian University, Zhongli District, Taoyuan City, 320, Taiwan (ROC)

ID 028  Assessment of the Health Problems and Health Hazards Prevalent among the Garment Workers of Bangladesh – An Approach with Risk Priority Number and Best-Worst Method  
Ahmed Shoyeb Raihan, Department of Industrial & Production Engineering, Bangladesh University of Engineering & Technology, Dhaka, Bangladesh
Farzana Islam, Department of Industrial & Production Engineering, Bangladesh University of Engineering & Technology, Dhaka, Bangladesh

ID 616  Corporate Social Responsibility (CSR) Contribution to Achieve Sustainable Development Goals (SDGs) in Southeast Sulawesi  
Faturachman Alputra Sudirman, Ambo Upe, La o de Herman and Fera Tri Susilawaty, Faculty of Social and Political Sciences, Universitas Halu Oleo, Kendari, 93132, Indonesia

ID 054  Robust Least Square Model: Increasing Literacy through Sanitation and Electricity in Indonesia  
Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia
Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jl. Mayjen Sutojo No.2, Cawang, Jakarta 13630, Indonesia

ID 794  Determinant Factors in Improving Services Quality Strategies at the National Land Agency North Luwu Regency, South Sulawesi, Indonesia  
Syahiruddin Syah, Riska Firdaus, Darmawati, and Musyafiah Mahfuuddin, Andi Djemma University, Palopo, South Sulawesi, Indonesian

ID 504  Demystifying Projects Network Analysis using Fuzzy Numbers  
Vivek Soni, BULMIM, New Delhi, India
Devinder Kumar Banwet, IIT Delhi, India
ID 394 Application Scorecard Logistics Method for Comparative Analysis of Performance Measurement: A Case Study
Silvi Isticornah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Avia Bilqis Viana, Anida Norma Cahyati, and Sofi Desi Susanti, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo and Yuniaristanto, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 367 Determinant of Factors affecting Customer Satisfaction: Case of the Logistics Industry in Sri Lanka
S. M. D. T. K. Egodawela, A. N. Wijayanayake, and P.L.S. Peter, Department of Industrial Management, Faculty of Science, University of Kelaniya, Sri Lanka

ID 302 Hotel Revival Strategy Planning with SWOT-Fuzzy AHP-TOPSIS: A Case Study of 4-star Hotel
Almira Zada Nurulita Sahir, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 234 Measuring Maintenance Strategies of Car Wash Business in Indonesia
Hikari Q. Nurhadi, M. Fadhilis Syakur, Nadhilah H. Suryanto and Rinanda Hanindy R., Industrial Engineering Department, Universitas Indonesia, Depok 16436, Indonesia

ID 141 Metaheuristic for Solving Maritime Inventory Routing Problem: A Literature Review
Antono Adhi, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia and Department of Industrial Engineering, Universitas Stikubank, Semarang, Indonesia
Firda Nur Rizkiani, Budi Santosa, and Nurhadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia

ID 303 Modeling the Barriers and Enablers of Intellectual Property-based Financing Scheme for Developing Economies: An Indonesian Context
Maraya Ghassani Santoso, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 312 Service Quality Improvement Strategy for Container Terminal using SERVQUAL-SWOT-QFD
Anun Nisalatini Najiyah, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 296 Technological Aspects of Green Manufacturing’s Adoption in SMEs: the role of owners
Ira Setyaningsih, Industrial Engineering UIN Sunan Kalijaga Yogyakarta, Indonesia

ID 518 Discovering the Green Manufacturing Practices in Malaysia Small and Medium-Sized Enterprises (SMEs)
Zulkifli Mohamed Udin, Rohafiz Sabar, Hartini Ahmad, and Nur Khairiel Anuar, Universiti Utara Malaysia, Malaysia
Faruq Muhammad Abu Bakar, Bauchi State University Gadau, Nigeria

ID 492 Production Planning and Capacity Control with Demand Forecasting Using Artificial Neural Network (Case Study PT. Dynaplast) for Industry 4.0
Priskila Abigail Gunawan and Lina Gozali, Industrial Engineering Department, Universitas Tarumanagara, West Jakarta, 11440, Indonesia

ID 484 Production Planning and Inventory Control Using Artificial Neural Network Forecasting for Furniture Industry 4.0 Custom Production
Andre Jonathan Christifan and Lina Gozali, Industrial Engineering Department, Universitas Tarumanagara, West Jakarta, 11440, Indonesia

ID 1173 Identification of Critical Success Factor for Sustainable Supply Chain Management Drone Logistics in Indonesia with ISM (Interpretive Structural Modeling) Approach
Nida An Khoifyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
Muhammad Hisjam and Wahyudi Sutopo, Research Group of Industrial Engineering and Techno-Economics, Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 1099 Smart Transaction Picking in Tier-to-tier SBS/RS by Deep Q-Learning
Bartu Arslan, Yasar University, Turkey

March 10, 2021 (Wednesday) - Session: 5:00 – 6:45 pm

5:00 – 6:45 pm, WEDNESDAY

Industry 4.0 Panel

"Quality 4.0 Practices, Challenges, and Opportunities in Industrial Enterprises".

Panel Chair:
Panel Speakers

**Dr. Nigel Grigg**
Professor of Quality Systems  
Head of Department of Operations and Engineering Innovation (OEI)  
School of Engineering and Advanced Technology  
Massey University, Palmerston North, New Zealand  
Associate Editors of Journal of Quality Management, Taylor & Francis Publishing

**Dr. Matthew Pepper**
Senior Lecturer  
School of Management, Operations and Marketing  
University of Wollongong (UOW), New South Wales, Australia.  
Editorial Advisory Boards for the International Journal of Lean Six Sigma, the Journal of Manufacturing Technology Management, and International Journal of Information and Operations Management Education

**Dr. Azmawani Abd Rahman**
Professor, School of Business and Economics  
Universiti Putra Malaysia (UPM)  
President of Research and Education at the Malaysia Franchise Association (MFA)  
Former Director of Corporate Strategy and Communication Office UPM  
Former Deputy Director of Research Management Centre UPM

**Dr. Mat Naim Abdullah**
Associate Professor  
Faculty of Built Environment and Surveying  
Deputy Director, UTM Centre for Quality and Risk Management  
Universiti Teknologi Malaysia (UTM)

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**5:00 – 6:45 pm, WEDNESDAY**  
Room 2: Operations Research

**ID 427**  
A Reactive Scheduler for Closed Loop Control Systems Using Historical Run-time Statistics  
Sudhir Shetiya and Siddhartha SenGupta, TCS Research and Innovation, TATA Consultancy Services, Olympus, Thane West 400607, Maharashtra, India  
Supratim Biswas, Department of Computer Science and Engineering, IIT Bombay, Powai, Mumbai 400076, India

**ID 416**  
Adding Relation with Long Communication Length between the Top and a Member of a Linking Pin Organization Structure  
Kiyoshi Sawada, Department of Economic Information, University of Marketing and Distribution Sciences, Kobe, Japan

**ID 463**  
Analysis of Airline Domestic Operations using Linear Programming  
Ralph Andre C. Roque, Rex Aurelius C. Robielos and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

**ID 469**  
Analysis of Supply Chain in a Liquified Natural Gas (LNG) Company in the Philippines using Optimization Models  
Joshua Grenel L. Armea and Rex Aurelius C. Robielos, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

**ID 1251**  
The Role IMF Prescribed Policies in Supporting Socio Economic Development in Nigeria  
Raziqa Muhammad Shafiu and Mohd Afandi Salleh, Faculty of Law and International Relations, Universiti Sultan Zainal Abidin (UniSZA), Terengganu, Malaysia

**ID 080**  
An Efficient Heuristic Method for Dynamic Berth Allocation Problem  
P. U. Ankita and M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bangalore, India

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**ID 032**  
Marine Predators Algorithm and Tunicate Swarm Algorithm for Power System Economic Load Dispatch  
Oluwafemi Ajaye, Reolyn Heymann and Ewaoche John Okampo, Centre for Collaborative Digital Networks, Department of Electrical and Electronic Engineering Science, University of Johannesburg, South Africa

**ID 201**  
Performance Analysis of a Sugarcane Bagasse Cogeneration Power Plant in Grid Electricity Generation  
Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa  
Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

**ID 112**  
Superconducting magnetic energy storage (SMES): grid integration and energy applications  
Amal E. AbdellGawad, Electrical and Computer Engineering Department, Renewable Energy Engineering, Effat University, Jeddah, Saudi Arabia  
Mohamed Abdulmajid, Energy and Technology Research Center, Effat University, Jeddah, Saudi Arabia
ID 134  Thermodynamic Evaluation of a Solar Based Kalina Cycle
Imran Jeannot, Md Mizanur Rahman, Aminuddin Saat, Hasan Mohd Faizal and Mazlan Abdul Wahid, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia (UTM), 81310 Johor Bahru, Johor, Malaysia

ID 470  Towards the Application of Pumped-Hydro Storage in Nigeria
Olukeye A. Adegbimpe, Victor O. Oladokun and Inyene E. Edem, Department of Industrial and Production Engineering, University of Ibadan, Nigeria

ID 1192  Superconducting Magnetic Energy Storage (SMES) within Grid and Energy Applications
Mohammed Abdulmajid, Amal E. AbdelGawad, and Nehal A. Alyamani, Electrical and Computer Engineering Department, Renewable Energy Engineering, Effat University, Jeddah, Saudi Arabia

5:00 – 6:45, WEDNESDAY  Business Management  Room 4
Session Chair: Mohd Yusoff Yusliza, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 553  The Mediating Role of Universities Environment in the Relationship Between Self-Efficacy, Family Environment and Entrepreneurial Intention
Bob Foster, Faculty of Economic and Business, Universitas Informatika dan Bisnis Indonesia, Bandung, Jawa Barat 40285, Indonesia
Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Muhmad Deni Johansyah, and Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Jatinangor 45363, Bandung, Indonesia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 598  The Moderating Role of Training on Personality and Behaviour Intention to Participate among Nature Tourist Guide
Md Khairul Azzwan Md Razali, Khatijah Omar, Hazman Samsudin, Muhammad Abi Sofian Abdul Halim and Norhayati Ab Manaf, Institute of Tropical Biodiversity and Sustainable Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Siti Nor Adawiyah Azzahra Kamaruddin and Jumadil Saputra, Faculty of Business, Economic and Social Development, Universiti Malaysia Terengganu, 20130 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 545  The role of collaboration in mediating distinctive capability on performance in the digital industry in Indonesia
Muji Gunarto, Management Department of Economics and Business Faculty, Universitas Bina Dharma, Palembang, Indonesia
Rully Armanto, Management Department of Economics Faculty, Universitas Tamansiswa Palembang, Palembang, Indonesia
Verawaty, Accounting Department of Economics and Business Faculty, Universitas Bina Dharma, Palembang, Indonesia

ID 364  The Role of Foreign Aid between Health and Poverty Reduction Strategy Implementation: The Case of Chad
Khali Abakar Moussa Kaya, Abd Rahman Ahmad and Ganana Moustapha Gueme, Department of Business Management, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 596  Understanding the Antecedents of Employee Green Behaviour through the Lens of Psychological Variables
Olawole Fawehinmi, M.Y. Yusliza, Zikri Muhammad and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Terengganu, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 260  Valuation of PT Adaro Energy Tbk by Forecasting of Indonesian Coal Index Using Geometric Brownian Motion and Fiscal Impact of Indonesian Law 3 Year 2020
Idam Faisal Rahman and Yuinieta Anny Nainggolan, School of Business and Management, Institut Teknologi Bandung, Bandung, West Java, Indonesia

ID 1100  Analysing the Impact of Coaching on Teachers’ and Students’ Performance
Mohd Yusoff Yusliza, Nik Sarah Athirah Nik Azlan, Zalha Zainuddin, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Shan Moorthi, Teamcoach International Sdn. Bhd., 218, Faber Towers, Jalan Desa Bahagia, Taman Desa, 58100 Kuala Lumpur, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

5:00 – 6:45, WEDNESDAY  Lean Six Sigma and Simulation Competition  Room 5
Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

LEAN SIX SIGMA COMPETITION

ID 485  Application of Lean Six Sigma in PET Bottle Production Line at P.T. Peace Industrial Packaging
Sharin Chandra, Student of Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia
Lina Gozali, Lecturer of Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 619  Application of Lean Six Sigma to Improve The Food Bank Singapore’s Vending Machine Replenishment Process – A Case Study
Julian See, School of Business, Singapore University of Social Sciences, Singapore, Singapore
Huay Ling Tay, School of Business, Singapore University of Social Sciences, Singapore, Singapore
ID 481 Redesigning The Facility Layout With Systematic Layout Planning Method and Lean Manufacturing Approach On The Production Floor At PT. Baruna Trayindo Jaya
Dino Ramadhan, Lina Gozali, Frans Jusuf Daywin, and Carla Olyvia Doaly, Industrial Engineering Department, Tarumanagara University, Jakarta, Indonesia

SIMULATION TECHNICAL PAPER COMPETITION

ID 798 Acoustic Vibration Sensing and Control Mechanism for Boilers
Bongi Mhlongo, and Daramy Vandi Von Kallon, University of Johannesburg, South Africa

ID 805 Investigateing the Efficiency of Centrifugal Pumps via FEA
Motsi Ephrey Matiáka and Daramy Vandi Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa

ID 949 Investigation of Cracks and Damages at the Bends of Soot Blower tubes
Nkosinathi Siyabonga Kubheka and Daramy Vandi Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Level 7, John Orr Building, 47 Nind Street, Doornfontein, Johannesburg, 2092, South Africa

ID 1042 Investigation of Cracks and Damages at the Bends of Soot Blower tubes
Nkosinathi Siyabonga Kubheka and Daramy Vandi Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Level 7, John Orr Building, 47 Nind Street, Doornfontein, Johannesburg, 2092, South Africa

March 10, 2021 (Wednesday) - Session: 7:00 – 8:45 pm

7:00 – 8:45 pm, WEDNESDAY Industry Solutions V Room 1
Session Chair: Dr. Saso Krstovski, Ford Motor Company, Michigan, USA

7:00 pm (Wednesday, March 10) - Room 1

Steven Sibrel
Senior Supplier Quality Manager
Harman International
Novi, Michigan, USA
Professional Development Chair and Past Chair – ASQ Greater Detroit

7:20 pm (Wednesday, March 10) - Room 1

Obaidul Gani, MSIE, P.E, CSSBB, CLE
Director of Operations & Manufacturing
Lacerta Therapeutics
Gainesville, Florida, United States

7:40 pm (Wednesday, March 10) - Room 1

Ts. Dr. Mehran Doulat
Associate Professor
MBA Review Committee/Coordinator
Xiamen University Malaysia (XMUM)
Director of Centre for Operational Excellence Research (COER)
Editorial Advisory Board for the International Journal of Industrial Engineering and Operations Management (IJIEOM)

Title: Sustainable Supply Chain Management (SSCM) Practices: Insights from Malaysian Non-Manufacturing Industries

8:00 pm (Wednesday, March 10) - Room 1

Eng. Kenn Wong, BEE, PgDip, MBA
Regional Sales Manager, Asia Pacific Region
ESW Vision GmbH, Malaysia

8:20 pm (Wednesday, March 10) - Room 1

Atif Baig, MBA
Research Associate
The Centre for Organisational Excellence Research (COER)
Massey University
Palmerston North, New Zealand

Title: An exploration of the organisational excellence architecture required to support an award-winning business excellence journey
8:40 pm (Wednesday, March 10) - Room 1

Dr. Saso Krstovski, MBB
Lean Manufacturing Coach /Six Sigma Master Black Belt
Van Dyke Transmission Plant
Ford Motor Company, Michigan, USA

7:00 – 8:45 pm, WEDNESDAY  Technical Session  Room 2

Session Chair: Fazli Wadood, Department of Management Sciences University of Buner KP, Pakistan

ID 843  The Effect of Population Growth on Economic Growth: An Evidence from Indonesia
Mahdawi, Nirdulkia Ratnawati, Department of Economics, Universitas Tri Sakti, Grogot, 11440, Jakarta Barat, Indonesia
Rico Nur Ilham, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia
Rumiris Siahaan, Suci Etri Jayanti, Mangasi Sinurat, Sekolah Tinggi Ilmu Ekonomi Bina Karya Tebing Tinggi, Padang Hulu, Tebing Tinggi, 20631 Sumatera Utara, Indonesia
Pinondang Nainggolan, Department of Economic, Universitas Simalungun, Pematang Siantar, 21142 Sumatera Utara, Indonesia
Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 858  Technological Innovation Strategy and Commercialization of Charging Station Technology: A Case Study in Indonesia
Silvi Istiqomah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Wahyudi Sutopo, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 1109  The impact of 5S Kaizen in the implementation of Lean manufacturing in South Africa (SA)
John Zvidzayi, Mangosuthu University of Technology, Department of Mechanical Engineering, Jacobs, Durban, South Africa

ID 1101  Fault Tree Analysis of a Reverse Osmosis Plant
Mohammed A. Hajeek, Techno-Economics Division, Kuwait Institute for Scientific Research, P.O. Box 24885; Safat-13109, Kuwait

ID 1096  The Effect of Leverage, Profitability, Sales Growth, and Thin Capitalization Towards Tax Avoidance on Service Companies in The Trade, Service, and Investment Sector Listed on The Indonesia Stock Exchange
Moya Safira Dewi, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia and Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia
Idawati Ibrahim, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia
Check Derashid, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia
Maria, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia, 11480

ID 1098  Barriers to growth of Small and Medium Enterprises (SMEs) in Libya
Waheed Elsharie, Researcher, University of Reading, School of Politics Economics and International Relations
Abdussalam Shibli, School of Energy construction and Environment, Coventry University, United Kingdom

ID 1108  A Meta-Synthesis on the Challenges Faced by Microenterprises and SMEs in Developing Economies
Fazli Wadood, Department of Management Sciences University of Buner KP, Pakistan
Mohammed Emad Alshaikh, Department of Management Information Systems (MIS), Imam Abdulrahman Bin Faisal University (IAU) Dammam, Saudi Arabia
Abdul Talib Bin Bon, Faculty of Technology Management and Business, University Tun Hussein Onn Malaysia.
Rao Aamir Khan, Department of Management Science. Comsats University Islamabad, Pakistan

7:00 – 8:45 pm, WEDNESDAY  Technical Session  Room 3

Session Chair: A. Yusdianti Tenriawali, Universitas Iqra Buru, Indonesia

ID 1064  Licensing Services in the Era of the COVID-19 Pandemic
Reynilda, STIE Nobel Indonesia, Makassar, Indonesia
Henni Zainal, Universitas Indonesia Timur, Makassar, Indonesia
Syamsu Rijal, Universitas Sembilanbelas November, Kolaka, Indonesia
Sudiarti Dewi Kurra, Universitas Negeri Makassar, Indonesia
Nasaruddin H, STISIP 17-18-1945, Makassar, Indonesia

ID 1056  A Review of Paradigms Literature: Mini – Review Approach
Risky Novialdi, Rohana Ahmad, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

ID 1016  Valuation for Agriculture Business Swiftlet Bird Nest Farming Using Discounted Cash Flow Analysis Case Study: “Wahana Walet Sejahtera” in Berau East Kalimantan
Arif Widy Susanto and Yunieta Anny Nainggolan, School of Business and Management, Institut Teknologi Bandung, Indonesia

ID 1055  A Study of Democracy and the Political Change in Malaysia
Rosyidah Muhamad, Raja Zirwatul Aida Raja Ibrahim, Jumadil Saputra and Siti Aisyah Saat, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
ID 1044  Ability to Compile Argumentative Essays in Waepoth High School Students Buru Regency
A. Yusdianti Tenriawali, Universitas Iqra Buru, Maluku, Indonesia

ID 1046  Personal Characteristics of the Author in the Language Style of Dewi Lestari's Supernova Hexalogy
Sumiyati, STAKN Toraja, South Sulawesi, Indonesia

ID 837  Calculation of the Timelife in HDPE Pipe With a Crack
Latifa Alimi, Kamel Chaoui, and Khouloud Bedoud, Research Center in Industrial Technologies CRTI P.O. Box 64, Cheraga, Algeria
Mechanics of Materials & Plant Maintenance Research Laboratory (LR3MI), Mechanical Eng. Dept., Badji Mokhtar University, Annaba, Algeria
Kamel Chaoui, Mechanics of Materials & Plant Maintenance Research Laboratory (LR3MI), Mechanical Eng. Dept., Badji Mokhtar University, PO Box 12, Annaba 23000, Algeria
Khouloud Bedoud, Research Center in Industrial Technologies CRTI P.O. Box 64, Cheraga, Algeria

ID 1025  Focalizator in Novel Telegram by Putu Wijaya
A. Yusdianti Tenriawali, Universitas Iqra Buru, Indonesia

7:00 – 8:45 pm, WEDNESDAY  Business Analytics  Room 4
Session Chair: Ellaine C. Villegas, Mapúa University, Manila, Philippines

ID 1175  Parenting Strategy Implementation Model in PT. Telkom Indonesia
Heru Basuki Purwanto, Agus Rahayu, Disman, and Lili Adi Wibowo, Doctoral Program of Management, Universitas Pendidikan Indonesia, Jalan Setiabudhi 229, Bandung, Indonesia

ID 1178  The Influence of Knowledge, Social Media Utilization and Motivation on Entrepreneurial Intention (Case Study: Telkom University Students)
Wifiani Sukma Dewi, Mahir Pradana and Devilia Sari, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia
Diki Wahyu Nugraha, Prodi/Jurusan D4 Teknik Informatika Politeknik Pos Indonesia, Jln. Sari Asih No. 54, 40151 Bandung, Indonesia

ID 1179  The Influence of Cristiano Ronaldo As Brand Ambassador on E-Commerce Purchase Intention
Yossi Indriani Putri, Mahir Pradana and Fitriani Nur Utami, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia
Diki Wahyu Nugraha, Prodi/Jurusan D4 Teknik Informatika Politeknik Pos Indonesia, Jln. Sari Asih No. 54, 40151 Bandung, Indonesia

ID 1186  Credit Card Sales Performance Dashboard
Darrel John Beltran, Yves Kangleon, Ariel Kelly Balan and Joel de Goma, School of Information Technology, Mapua University, Makati, Philippines

ID 1188  Employee Performance Prediction using Different Supervised Classifiers
Merry Grace T. Li, Macrina Lazo, Ariel Kelly Balan and Joel de Goma, School of Information Technology, Mapua University, Makati, Philippines

ID 1199  P Physical Assessment and Perceived Quality of E-jeepney in Metro Manila
Ellaine C. Villegas, Niño Chino B. Ledres, and Rene D. Estember, School of Industrial Engineering and Engineering Management, Mapúa University, 658 Muralia St. Intramuros, Manila, Philippines

7:00 – 8:45 pm, WEDNESDAY  Doctoral Dissertation Competition  Room 5
Session Chair: Dr. Mizanur Rahman, Universiti Teknologi Malaysia

ID 539  Using Latin Hypercube Hammersley Sampling Method for Algorithm Parameter Tuning: A Case for Differential Ant-Stigmergy Algorithm
Yasemin Eryoldaş and Alptekin Durmuşoğlu, Department of Industrial Engineering, Gaziantep University, Turkey

ID 742  The Relationship Between Innovation Capabilities And Organizational Performance For Economic Development Department Of United Arab Emirate (Uae): Proposed Framework
Anoud Khalifa and Wan Fauziah Wan Yussof, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia

ID 902  Innovation Capabilities, Organisational Culture and Performance of Economic Development Department in UAE: Structural Model
Anoud Khalifa, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia
Wan Fauziah Wan Yussof, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia

ID 1077  Impact of Critical Influential Factors of Knowledge Management and Innovation on UAE Organization Performance
Khalid Buafra, Department of Technology Management and business, Department of Technology Management, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia
Shahrul Salahudin, Department of Technology Management and business, Department of Technology Management, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia

ID 1054  Knowledge Management and the performance of the universities in UAE: Theoretical perspective
Khalid Buafra, Department of Technology Management and business, Department of Technology Management, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400 Batu Pahat, Johor, Malaysia
**March 10, 2021 (Wednesday) - Session: 9:00 – 10:30 pm**

<table>
<thead>
<tr>
<th>Time</th>
<th>Panel Session</th>
<th>Room 1</th>
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<tr>
<td>9:00 – 10:30 pm, WEDNESDAY</td>
<td>Diversity and Inclusion Panel sponsored by Ford Motor Company</td>
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**Panel Chair**

**Professor Cecilia Nembou**
President and Vice-Chancellor (Retired)
Divine Word University
Papua New Guinea

**Panel Speakers**

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<thead>
<tr>
<th>Name</th>
<th>Position and Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. NG Szu Hui</td>
<td>Associate Professor and Acting Head, Department of Industrial Systems Engineering and Management, National University of Singapore</td>
</tr>
<tr>
<td>Dr. Hannelie Nel</td>
<td>Senior Lecturer, Postgraduate School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg</td>
</tr>
<tr>
<td>Dr. Ho Hwi Chie, M.Sc.</td>
<td>Dean, Binus Aso School of Engineering (BASE), Bina Nusantara University (Binus)</td>
</tr>
<tr>
<td>Jihong Yan, Ph.D.</td>
<td>Professor in Industrial Engineering, Deputy Dean of School of Mechatronics Engineering, Head of Intelligent Manufacturing Scientific Research Team, Harbin Institute of Technology</td>
</tr>
<tr>
<td>Professor Donald M. Reimer</td>
<td>Director of Membership and Chapter Development – IEOM, President, The Small Business Strategy Group, Detroit, USA, Adjunct Faculty – A. Leon Linton Department of Mechanical, Robotic and Industrial Engineering, Lawrence Technological University, Southfield, Michigan, USA</td>
</tr>
<tr>
<td>Hajj Flemings</td>
<td>CEO/Founder, Rebrand Cities, Birmingham, Michigan, United States</td>
</tr>
</tbody>
</table>

**March 11, 2021 (Thursday) - Session: 8:00 – 9:45 am**

<table>
<thead>
<tr>
<th>Time</th>
<th>Global Business Management Education I</th>
<th>Room 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 – 9:20, THURSDAY</td>
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</tr>
</tbody>
</table>

**Session Chair**

Dr. Surya Prakash, BML Munjal University, Gurgaon, Haryana, India

**Shahram Taj, Ph.D.**
Chair and Professor of Logistics & Supply Chain Management
Department of Data Science & Business Analytics  
Florida Polytechnic University  
Lakeland, FL 33805, USA

**Mission, Vision, Learning Outcomes, and Strategic Priorities for Data Science and Business Analytics**

8:20 – 8:40 am (Thursday)

**Dr. Le Thi Huynh Anh**  
Faculty of Project Management  
The University of Danang, University of Science and Technology  
Vietnam

8:40 – 9:00 am (Thursday)

**Dr. Vincent F. Yu**  
Department of Industrial Management  
National Taiwan University of Science and Technology  
Taipei 10607, Taiwan

9:00 – 9:15 am (Thursday)

**Dr. Hsiu-I Ting**  
Department of Information and Finance Management  
National Taipei University of Technology  
Taipei 10608, Taiwan

9:15 – 9:30 am (Thursday)

**Dr. Surya Prakash**  
Ph.D. (Supply Chain Design)  
School of Engineering and Technology  
BML Munjal University,  
(A HEROGroup initiative)  
Gurgaon, Haryana, India

8:00 – 9:45, THURSDAY Business Management Room 2

Session Chair: Isfenti Sadalia, Universitas Sumatera Utara, Medan Baru, Medan, Sumatera Utara, Indonesia

**ID 575 Exploring Determinant Factors Structure that Influence the Intention to Sustainable Tourism Destination: Case Study of Sumai Hotel and Apartment Sdn. Bhd.**  
Zaliha Zainuddin, Zaleha Mohamad and Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia  
Mohd Hanafi Azman Ong, Department of Statistics and Decision Sciences, Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA Johor, Muar, 85000 Segamat, Johor, Malaysia  
Abdul Taib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

**ID 363 Foreign Direct Investment and Economic Development in Sub Saharan Africa: A Case of Chad Republic**  
Ganama Moustapha Gueme, Maimunah Binti Ali and Khalil Abakar Moussa Kaya, Department of Business Management, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia  
Hissein Araby Nour, Faculty of Economics Science and Management, (Faculté des Sciences Économiques et Gestions, FSEG), University of N’Djamena, Chad

**ID 341 Green Business Publication: Insights from Scientometric Analysis (1990-2019)**  
Agung Purnomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia  
Mega Firdaus, English Language Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia  
Atik Widiyanti, Environmental Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia  
Mochamad Choifin, Mechanical Engineering Department, Universitas Ma’arif Hasyim Latiff, Sidoarjo, Indonesia  
Lailatul Maghfiroh, Public Health Department, Airlangga University, Surabaya, Indonesia

**ID 597 Green Transformation and Finance: A Mini-Review Approach**  
Dian Pramita Oktasari, Nurasyikin Jannaludin, Jumadil Saputra, Mohd Yusoff Yusliza and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia  
Abdul Taib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia

**ID 111 Identification of B2B E-Commerce Competition Market in Indonesia**  
Lalita Padmapuspita J, Rahmat Nurcahyo and Dijoko Sihono Gabriel, Industrial Engineering Departement, Universitas Indonesia, Depok, Indonesia

Syarifa Yunindiah Lestari, Hazira Aishah Hashim, Mohd Yusoff Yusliza, Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia
8:00 – 9:45, THURSDAY  Healthcare Systems  Room 3

Session Chair: Rodrigo E Peimbert-García, Tecnologico de Monterrey / Macquarie University, Monterrey / Sydney, Nuevo León / New South Wales, Australia

ID 307  An Analysis of Internet of Things Technology Selection for Hospital Laboratory Maintenance
M. Rizki Alfarisi and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 202  An Integrated Approach for Performance Evaluation of Healthcare Industry with proposed Leagile Policy Framework
Kingshuk Sen, The Institution of Engineers (India), Kolkata, India
Surjolt Ghosh, The Institution of Engineers (India), Kolkata, India
Bijan Sarkar, Production Engineering Department, Jadavpur University, Kolkata, India

ID 304  ICU Patient Monitoring Improvement Using Internet of Things (IoT) with BPR Approach
Sanyadwia Ghinasni Zen, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 161  Perception and Expectation of Dental Clinic Services in Jakarta, Indonesia
Ahmad Akmludin Sahid, Rahmat Nurcahyo, and Farizal, Industrial Engineering Departement, Universitas Indonesia, Depok 16436, Indonesia

ID 453  The Impact of Intrusion Detection Systems Upon Healthcare Environments: A Research Review
Tasfia Bari M.S., College of Technology, Eastern Michigan University, USA
Munther Abualkibash, School of Information Security and Applied Computing, College of Technology, Eastern Michigan University, USA

ID 118  Linking Lean Adoption/Implementation in Healthcare to National Cultures
Rodrigo E Peimbert-García, Tecnologico de Monterrey / Macquarie University, Monterrey / Sydney, Nuevo León / New South Wales Australia

8:00 – 9:45, THURSDAY  Operations and Project Management  Room 4

Session Chair: Yugowati Praharsi, Shipbuilding Institute of Politeknik Surabaya, Surabaya, Indonesia

ID 548  Analysis Business Process Incident Management Cloud: Case Pt. Xyz Using Software R and Prom
Ngakan Made Satrya, and Gadang Ramantoko, Faculty of Economic and Business, Telkom University Telecommunication street No. 1 st, Bandung, Indonesia

ID 593  Application of Relationship between Leadership and Employee Performance at Manufactur Company in Indonesia
Dedi Iskamto, Mahbubah Srimulatsih, Putra Budi Ansori, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia
Dedi Iskamto, Puspa Liza Ghazali, Wan Mohamad Asyraf Wan Aftahonan, Salman Lambak and Nik Hazimi Mohd Foziah, Faculty of Business and Management, Universiti Sultan Zainal Abidin. 21300 Kuala Nerus, Terengganu. Malaysia.

ID 592  Application of Economic Mathematical Model in Production of Gold Sub-Sector in Indonesia
Sukono, Rianam, and Collins Friskilia Sibarani, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

ID 407  Application of Vehicle Routing Problem to Determine Optimal Route in Fuel Distribution: A Case Study
Era Febriana Aqidawati, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Maulana Ichwan Anshory, Aprialia Dityarini, Yuniaristanto, Wahyudi Sutopo, and Brahmaskta Artanto, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 115  Critical Success Factors during Execution of EPCC National Strategic Project in Indonesia
Dika Fajar Pratama Setiadi, Rahmat Nurcahyo and Farizal, Department of Industrial Engineering, Universitas Indonesia, Salemba, Jakarta, Indonesia

ID 314  Modeling and Analysis of a Software Development Project with Design Structure Matrix and Simulation Approach in an Indonesian Startup
Emanuella Tiffany, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

ID 368  Scrum Method Implementation for Project Management in a Construction and Installation New Automotive Factory Facility in Indonesia
Frezi Majesty, M. Dachyar, and Djoko Sihono Gabriel, Industrial Engineering Department, Universitas Indonesia, Indonesia

ID 009  The Performance of Project Management at Traditional Shipyard in East Java, Indonesia
Yugowati Praharsi, Business Management, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia
Muhammad Abu Jami’in, Electrical Engineering Department, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia
Gaguk Suhardjito, Business Management, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia
Hui-Ming Wee, Industrial and System Engineering, Chung Yuan University, Chung Li, Taiwan

ID 1189  An Upcycling Opportunity for Household Textile Waste in Malaysia
Emy Ezura A-Jalil, Technology and Supply Chain Excellence Institute and School of Technology Management and Logistics, College of Business, Universiti Utara Malaysia, 06010, Sintok, Kedah, Malaysia

ID 1200  A Conceptual Framework for Sustainable Supply Chain Management Practices of Small and Medium Enterprises
Mehran Doulatabadi and Hak Kenn Wong, MBA Centre, Xiamen University Malaysia, 43900 Sepang, Selangor, Malaysia

ID 1205  Role of IMF Lending Preconditions in Nigeria
Raziqa Muhammad Shafiu and Mohd Afandi Salleh, Faculty of Law and International Relations, Universiti Sultan Zainal Abidin (UniSZA), Terengganu, Malaysia

ID 628  Measuring psychometric properties of the Career Orientation Scale for High School Students: insights from the Rasch measurement tool
Zakki Nurul Amin, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia
Juhdi Amin, Institut Agama Islam Negeri Surakarta, Surakarta, Central Java, Indonesia
Kusnarto Kurniawan, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia
Eko Nusantoro, Guidance and Counseling Department Program, Universitas Negeri Semarang, Semarang, Central Java, Indonesia

ID 649  The Learning Innovations Through Using Of Ict In Junior High School At Semarang
Kustiono and Budiyono, Lecturers, Department of Curriculum and Educational Technology, Faculty of Education, UNNES, Indonesia
Ulfah Musdalifah, Lecturers, Department of Midwifery, Poltekkes Ministry of Health Semarang, Indonesia

ID 1211  Information Technology in the Development of Language Aspects of Early Childhood
Abd. Hamid Wahid, Fathor Rozi, Hasan Baharun, Musyrifah, Wiwin Hidayati, Ana Sriwahyuningsih
Islamic Faculty, Nurul Jadid University, Paton, Probolinggo, Indonesia
Mamluatun N’imah, Islamic University of Zainul Hasan Genggong, Probolinggo, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia (OM)

ID 1212  Learning Strategies and Motivation with the ARCS Model for Mobile-Assisted Seamless
Abd Aziz, Poppy Rachman, and Hasan Baharun, Islamic University of Zainul Hasan Genggong, Probolinggo, Indonesia
Chusnul Muali, Dedi Wahyudi, Moh Afandi, and M. Saiful Islam, Islamic Faculty, Nurul Jadid University, Paton, Probolinggo, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

March 11, 2021 (Thursday) - Session: 9:30 am – 1:00 pm

Keynote Speakers

9:30 – 9:40 am, Conference Chair Remarks

9:40 – 10:20 am, Thursday - Keynote XII

Robert de Souza
Executive Director
The Logistics Institute – Asia Pacific (TLI – Asia Pacific)
Singapore

10:20 – 11:00 am, Thursday - Keynote XIII

Jenson Goh
Chief Information and Learning Officer
Monde Nissin Singapore Pte Ltd., Singapore

Uncovering Counter-Intuitive Insights through Systems Thinking for Operational Excellence: A Practitioner Perspective

11:00 – 11:40 am, Thursday - **Keynote XIV**

**Hoong Chuin LAU**
Professor of Information Systems and
Director of the Fujitsu-SMU Urban Computing and Engineering Corporate Lab
Singapore Management University (SMU), Singapore

11:40 am – 12:20 pm, Thursday - **Keynote XV**

**Murphy Choy**
Director of Operations and Technology
SSON Analytics, Singapore

12:20 – 1:00 pm, Thursday - **Keynote XVI**

**Dr. Noordin Mohd. Yusof**
Professor, Department of Materials, Manufacturing and Industrial Engineering
Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM), and
Former Dean of Faculty of Mechanical Engineering
UTM, Malaysia

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**March 11, 2021 (Thursday) - Session: 1:00 – 2:45 pm**

**1:00 – 2:45, THURSDAY**  **Global Supply Chain and Logistics Education**  **Room 1**

Session Chair: Prof. Shekar Babu, AMRITA University, Bangalore, India

1:00 – 1:20 (Thursday) – Room 1

**Aalok Kumar, PhD**
Assistant Professor
Indian Institute of Management Visakhapatnam
Uttarakhand, India

1:20 – 1:40 (Thursday)

**Rajendra Baraiya**
Research Scholar in Operations Management
Indian Institute of Management, Indore
Indore, Madhya Pradesh, India

1:40 – 2:00 (Thursday) – Room 1

**Dr. Muhammad Khan**
Lecturer in Management Sciences, Timergara Campus
Abdul Wali Khan University
Mardan, KPK, Pakistan

2:00 – 2:20 (Sunday) – Room 1

**Dr. Shams Rahman**
Professor of Operations and Supply Chain Management
School of Business IT and Logistics
Deputy Head of School, Research and Innovation.
RMIT University
Melbourne, Victoria, Australia

2:20 – 2:40 (Sunday) – Room 1

Prof. Shekar Babu
Founding Head, AMRITA School of Business, Bangalore
Adjunct Faculty, SUNY, Buffalo, USA
Research & Consulting
AMRITA University
Bangalore, India

1:00 – 2:45, THURSDAY E-Business/E-Service Room 2

Session Chair: Anita Verma, Kalindi College, Delhi University, India

ID 610 Adaptive Behaviors of Economies on Global Trade, Global Connectivity, and Ethnic Fractionalization: The new global trade frontier?
Demetria May T. Saniel, University of Science and Technology in Southern Philippine, Philippines

ID 136 Critical Success Factors of E-Commerce Collaboration in Indonesia
Prawira Adi Putra, Rahmat Nurcahyo and Farizal, Department of Industrial Engineering, Universitas Indonesia, Salemba, Jakarta, Indonesia

ID 459 Development of a Maturity Model based on the Input, Process, and Output Aspects of E-government
Naning Aranti Wessiani, Institut Teknologi Sepuluh Nopember (ITS) Surabaya, Surabaya, East Java, Indonesia

ID 431 Student Discount E-Platform for Higher Education students in Sri Lanka
Shanathani Kugarajan and Gayashini Shyanka Ratnayake, Informatics Institute of Technology, 57, Ramakrishna Road, Sri Lanka

ID 882 A Study of Stakeholders Perception of Factors Affecting Online Food Delivery Service Industry in the Philippines
SeonJae Lim and Marvin I. Norofia, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 998 The Influence of Consumer Behavior On Purchasing Decision Process of Tokopedia E-Commerce Customers In Indonesia
Aditya Wardhana, Mahir Pradana, Diki Wahyu Nugraha, Hasna Shabira, Telkom University, Indonesia

ID 964 Determining Factors Influencing Behavioral Intention for Usage of Digital Remittances – A Conceptual Model
Anita Verma, Assistant Professor (Senior Grade), Kalindi College, Delhi University, India
Rahela Farooqi, Professor, CMS, JMI University, New Delhi, India

1:00 – 2:45, THURSDAY Information Technology and Information Systems Room 3

Session Chair: Mohammed A. Khasawneh, Concordia University, Montreal, Quebec, Canada

ID 040 Economic Growth, Information Technology and Military Development
Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta 13630, Indonesia
John Tampli Purba and Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

ID 041 Evaluation of Window Parameters of Noncontrast Cranial CT Brain Images for Hyperacute and Acute Ischemic Stroke Classification with Deep Learning
Supatta Viriyavisuthisakul and Natsuda Kaothanthong, School of Management Technology, Sirindhorn International Institute of Technology (SIIT), Thammasat University, Pathum Thani, Thailand
Parinya Sanguvansat, Panyapiwat Institute of Management, Nonthaburi, Thailand
Choochart Haruechaiyasak, National Electronics and Computer Technology Center, Pathum Thani, Thailand
Minh Le Nguyen, Japan Advanced Institute of Information Technology (JAIST), Nomi city, Japan
Soawapot Sarampakul, Tanapon Chansumpao and Dittapong Songsaeng, Department of Radiology, Siriraj Hospital, Faculty of Medicine, Mahidol University, Bangkok, Thailand

ID 530 Information systems to manage transportation issues
Agnes Antiback, Julia Galus, Josefine Kristiansson, and Shahryar Sorooshian, Department of Business Administration, University of Gothenburg, Sweden

ID 609 Potential Used of Social Media/Mobile Phone to Support Promotion and Marketing in the Rural Tourism Destination
Suroto Adi, Binus University, Jakarta, Indonesia

ID 468 Quickip: Equipment Borrowing System for Laboratory Facilities
Josephine D. German, Paz Clariz A. Barzaga, Samantha Dominique C. Bucao, and Samantha Cyrine R. Ibe, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 625 Control of Raw Material Quality in the Fruit Puree Industry Using Gaussian Filter and Extraction of Features Based on Android Applications

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1:00 – 2:45, THURSDAY  Logistics and Transportation  Room 4

Session Chair: Chanikan Pholpipattanaphong, Chiang Mai University, Chiang Mai, Thailand

ID 205  A Combined Approach of AHP and DEMATEL Methods for Evaluating Key Success Factors of 3PL Service Providers
Theruwanda Perera, Aninna Wijayanayake and Ruwan Wickramerachchi, Department of Industrial Management, University of Kelaniya, Sri Lanka

ID 424  A Mixed Integer Programming Model for Fuel Efficiency with Logistics Uncertainties Impact
Mohammad Al-Yanieff Iqkhmal Mohamad, S Sarifah Radiah Shariff, Mohd Hafiz Affifi Azmi, Malaysia Institute of Transport (MITRANS), Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
S. Sarifah Radiah Shariff, Centre for Statistics and Decision Science Studies, Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia

ID 419  A Tri-level AHP Approach for Port Logistics Personnel Performance Evaluation
Muhamad Safuan Shamshol Babri, S Sarifah Radiah Shariff and Nur Syaza Izurin Zolkefley, Malaysia Institute of Transport (MITRANS), Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
S. Sarifah Radiah Shariff, Centre for Statistics and Decision Science Studies, Faculty of Computer and Mathematics, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
Na zry Yahya, JP Skills Centre, Johor Port Berhad, Malaysia

ID 035  Conceptualization of Logistics Management Knowledge in Healthcare Context
LDCS Layangani, Department of Transport and Logistics Management, University of Moratuwa, Sri Lanka

ID 542  Frugal Innovation: Contact-less last mile delivery as Resilient business model
Hassan Bergi, Niyazudeen Kamarudeen and Balan Sundarakani, Faculty of Business & Management, University Of Wollongong in Dubai, Knowledge Park, Dubai, UAE

ID 360  Fuzzy AHP Signifies Criteria Influencing Third Party Logistics Selection in Outsourcing Decisions of Freight Forwarding Company
Rapatsorn Suratos and Rawinkhan Srinon, The Cluster of Logistics and Rail Engineering (CLARE), Faculty of Engineering, Mahidol University, Nakhon Pathom, 73170, Thailand

ID 279  Improving Operational Efficiency of Pharmaceutical Inventory
Chanikan Pholpipattanaphong, Graduate Program in Logistics Engineering and Supply Chain Management, Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand
Sakgasem Ramingwong, Excellence Center in Logistics and Supply Chain Management Industrial Engineering Department, Faculty of Engineering, Chiang Mai University, Chiang Mai, 50200, Thailand

1:00 – 2:45, THURSDAY  Operations Management  Room 5

Session Chair: Heru Basuki Purwanto, Universitas Pendidikan, Bandung, Indonesia

ID 1206  Students’ Perception on Cooperative Learning with Jigsaw Technique Applied in Prose Classroom
Fety Surfaifel, Febe Fenny Irawati Wanggai, and Fransiskus Maria Separ, Universitas Flores Indonesia, Ende, Indonesia

ID 1207  Parenting Strategy Implementation Model in PT. Telkom Indonesia
Heru Basuki Purwanto, Agus Rahayu, Disman, and Lil Adi Wibowo, Doctoral Program of Management, Universitas Pendidikan, Jalan Setiabudi 229, Bandung, Indonesia

ID 1209  Analysis of the Application of Agriculture Accounting (PSAK 69) in Plantation Subsector Companies Registered in Indonesia Stock Exchange 2017-2018
Retno Martanti Endah Lestari, Arief Tri Hardiyanto, Abdul Kohar and Yuni Asrika, Department of Accounting, Faculty of Economics Pakuan University, Bogor Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1220  Hand Anthropometry Survey for Bangladeshi Female Population
Subrata Talapatra and Nourin Mohsin, Department of Industrial Engineering and Management Khulna University of Engineering & Technology, Khulna 9203, Bangladesh

ID 1083  Mortality and Economic Consequences of Handwashing.
Omas Bulan Samosir, Faculty of Economic and Business, Universitas Indonesia, Jakarta, Indonesia

ID 1282  The Role of Lean Practice of Single Minute Die Exchange (SMED) in Improving Manufacturing Performance
Muhammad Bukhsh, Under Graduate Final Year Student & Group Leader (Final Year Thesis), Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan
Muhammad Ali Khan, Assistant Professor & PhD Scholar, Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan
March 11, 2021 (Thursday) - Session: 3:00 – 4:45 pm

3:00 – 4:45, THURSDAY   Global Business Management Education III   Room 1

Session Chair: Professor Paul Jones, Swansea University, Wales, UK

3:00 – 3:20 (Thursday) – Room 1

Sagit Kedem-Yemini, Ph.D.
Lecturer, Logistics Department
Industrial Engineering and Management
Sapir Academic College
Israel

3:20 – 3:40 (Thursday) – Room 1

Ms. Marwa Abdel Tawab Mahmoud
Tourism Studies Department
Faculty of Tourism & Hotels
Fayoum University
Faiyum, Egypt

Entrepreneurship and Tourism: A Case Study of Egypt

3:40 – 4:00 (Thursday) – Room 1

Ar. Sana Malik
PhD Scholar, Universiti Sains Malaysia, Penang
Assistant Professor, School of Architecture and Planning
University of Management & Technology
Lahore-54770, Pakistan

Title of Talk: Construction Management of Commercial Housing Development: Dynamics of Real Estate Sector

4:00 – 4:20 (Thursday) – Room 1

Dr. Nadir Ali Kolachi
Dean, College of Business Administration
University of Fujairah, UAE

Remote Leadership & Team work in the new normal

4:20 – 4:40 (Thursday) – Room 1

Professor Paul Jones
Head of Business Department
Professor of Entrepreneurship and Innovation
Head of REF UoA17 2021 Business Submission
School of Management
Swansea University
Bay Campus, Fabian Way
Swansea, SA1 8EN
Wales, UK

Editor in Chief: International Journal of Entrepreneurial Behavior and Research
Associate Editor: International Journal of Management Education
Book Series Editor: Contemporary Issues in Entrepreneurship Research
### Panel Chair: Joanna Zorawska, Department of Geriatrics, Wroclaw Medical University, Poland

### Occupational Safety and Health (OSH) Room 2

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>045</td>
<td>An Investigation into Campus Safety and Security</td>
<td>Nokwanda Dlamini, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa</td>
</tr>
<tr>
<td>464</td>
<td>Analysis of Road Traffic Accident Criticality in CALABARZON Philippines</td>
<td>Vicente P. Velasco and Rex Aurelius C. Robielos, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines</td>
</tr>
<tr>
<td>482</td>
<td>Analysis of Road Traffic Accident Distribution in Tagaytay City Philippines</td>
<td>Dandy P. Abrigo and Rex Aurelius C. Robielos, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines</td>
</tr>
<tr>
<td>559</td>
<td>Assessment of the current working condition of the garment workers and determining the importance of labor union for the improvement of working condition in the RMG industry of Bangladesh</td>
<td>Mohsin Uddin, Md. Redwan Ullah, and Md. Razuir Rahman Diplo, Department of Apparel Engineering, Bangladesh University of Textiles, Tejgaon, Dhaka, Bangladesh</td>
</tr>
<tr>
<td>585</td>
<td>Contribution of Model 24 to Accident Analysis</td>
<td>Widad Bousfot, Saadia Saadi, and Mehbarak Djebabra, Laboratory of Research in Industrial Prevention (LRPI), Health and Safety Institute, University of Chahid Mostepha Ben Boulaid Batna 2, Batna, Algeria</td>
</tr>
<tr>
<td>453</td>
<td>Exercise regiment modification concurrent with pharmaceutical intervention in elderly population: A Review</td>
<td>Joanna Zorawska, Department of Geriatrics, Wroclaw Medical University, Poland, Julian Jastrzab Costner, Student of Wroclaw Medical University, Poland</td>
</tr>
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</table>

### Quality Control and Reliability Room 3

<table>
<thead>
<tr>
<th>ID</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>568</td>
<td>Improving the Efficiency and Performance of Underground Water Purification Plant in the Gold Mine</td>
<td>P.B. Soh, Department of Mechanical Engineering, Faculty of Engineering and Technology, Vaal University of Technology, Vanderbijlpark 1900, Private Bag X201, South Africa, M. Pita, Department of Mechanical Engineering, Faculty of Engineering and Technology, University of South Africa</td>
</tr>
<tr>
<td>006</td>
<td>The Assessment of Preparedness Level of Individual and Household in Disaster Prone Area in Sleman Regency to Encounter Merapi Mountains Eruptions</td>
<td>Naniek Utami Handayani, Tata Wahyu Sugmasantika, Yusuf Widharto, and Zainal Fanani Rosyada, Department of Industrial Engineering, Diponegoro University, Semarang, 50275, Indonesia</td>
</tr>
<tr>
<td>591</td>
<td>Estimate the Location of Basaltic Intrusion in Karanglewas Village Jatiluwang District Banyumas Regency Central Java Based on the Pseudogravity Anomaly Map</td>
<td>Sehah and Urip Nurfijayantoro Prabowo, Department of Physics, Faculty of Mathematical and Natural Sciences, Jenderal Soedirman University, Purwokerto, Central Java, Indonesia, Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia</td>
</tr>
<tr>
<td>208</td>
<td>Lean Implementation in Pakistani Process Industries</td>
<td>Asim Amjad, Institute of Quality and Technology Management, University of the Punjab, New Campus, Lahore, Pakistan, Iqra Ramzan, Department of Mechanical Engineering, University of Management and Technology, Lahore, Pakistan, Haflz Muzammal Hussain, Institute of Quality and Technology Management, University of the Punjab, New Campus, Lahore, Pakistan</td>
</tr>
<tr>
<td>411</td>
<td>YASREF Journey towards Business Transformation</td>
<td>Hamzah M. Al-Sharif, Yanbu Aramco Sinopel Refining Company (Yasref) Ltd., Yanbu Industrial City 41912, Kingdom of Saudi Arabia</td>
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<td>682</td>
<td>A New Three-Dimensional Chaotic System with Stable Equilibrium: Its Adaptive Control and Circuit Design</td>
<td>Siti Hadiaty Yuningsih, Master Program in Mathematics, Faculty of Mathematics and Natural Science, Universitas Padjadjaran, Indonesia, Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia, Aceng Sambas, Department of Mechanical Engineering, Universitas Muhammadiyah Tasikmalaya, Indonesia, Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor, Malaysia</td>
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<td>335</td>
<td>A System Dynamics Modelling Approach for Assessment Palm Oil Company Supply Chain under Policy Intervention: Case Study in Indonesia’s Private Company</td>
<td>Nathania Astria, M. Dachyar, and Rahmat Nurcahyo, Industrial Engineering Department, Universitas Indonesia, Indonesia</td>
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### Business Analytics Room 4

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<th>ID</th>
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<tbody>
<tr>
<td>432</td>
<td>A mobile based solution for Model United Nations</td>
<td>Shimar Ahamed Zubair and Gayashini Shyanka Ratnayake, Informatics Institute of Technology, 57, Ramakrishna Road, Sri Lanka</td>
</tr>
</tbody>
</table>

© IEOM Society International 11th Annual Conference
ID 142  Building a Model for Detecting Accounting Fraud in Tokyo Stock Exchange Listed Companies Using Machine Learning Method
Natsuki Sato, Ayuko Komura, and Hirohisa Hira, Department of Industrial Engineering and Management, Kanagawa University, Kanagawa, Japan

ID 550  Forecasting Gold Exchange Rate on USD (XAUUSD) in FOREX Market
Yuli Eni and Bachtiar H Simamora, Management Study Program, BINUS Business School, Bina Nusantara University, Jakarta, Indonesia

ID 556  Mobile Business Intelligence Application Design for Retail Micro and Small Enterprises (MSEs)
Roehl Matoza Jr., Lex Marco Paolo Miranda, Juliane Isabel Siltoy, and Grace Lorraine D. Intal, School of Information Technology, Mapua University, Intramuros, Manila, Philippines

ID 1095  Profitability, Liquidity, Advertising Cost and Firm Size Towards Tax Aggressiveness In Indonesia
Maya Safira Dewi, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia
Tunku Puteri Intan Safinaz, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia
Idawati Ibrahim, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia
Lily Cyntiani, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

ID 348  Predicting Students’ Performance in the University: A Review of Literature on the Machine Learning Techniques
L.V.C.N. De Mel and D.N. Wickramarachchi, Department of Industrial Management, University of Kelaniya, Kelaniya, Sri Lanka

3:00 – 4:45, THURSDAY
Innovation and Case Study
Room 5

Session Chair: Stephen Da Silva, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 1085  The influence of innovation on business performance mediated by the entrepreneurial spirit of PT Pegadaian (Persero) agents
Joko Prasetyo, Doctoral Program Management students, Universitas Sriwijaya, Palembang, Indonesia
Syamsurijal A. Kadir, Zakaria Wahab, and Muchsin Saggaff Shihab, Faculty of Economic, Universitas Sriwijaya, Palembang, Indonesia

ID 1221  Development of Different Disc Brake Rotor Designs
Stephen Da Silva and Daramy Vandi Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 1227  Overview of the Implementation of Quality Management System in Facilities Management
Mehran Doulatabadi, Xiamen University Malaysia, Malaysia
Mat Naim Bin Abdullah, Universiti Teknologi Malaysia (UTM), Malaysia

ID 1228  The Emerging of Dynamic Capabilities for Socially Responsible Operations and Innovation Development in The COVID-19 Pandemic Situation
Hadi Purnomo, Universitas Gadjah Mada (UGM), Indonesia, Universitas Kristen Immanuel (UKRIM), Indonesia
Wakhid Slamet Ciptono, Universitas Gadjah Mada (UGM), Indonesia
Hargo Utomo, Universitas Gadjah Mada (UGM), Indonesia

ID 1232  Dynamic Planning Integrated to Production and Maintenance in Composites Cndustry: Application of MaSe Methodology
Fatima Zahra DABAJ, Youssef AOURA, Latifa OUZIZI, Mohammed DOUMI and Abdelhafid NACHOUR, Ecole Nationale Superieure Des Arts Et Metiers, Meknes, Morocco

ID 1254  Implementation of Soft Competency through Education and Training as well as Work Experience on the Quality of Financial Reports in the Government of Mamuju Regency
Aci, Student of Management Magister Program, Sekolah Tinggi Ilmu Ekonomi Amkop, Makassar, Indonesia
Hasmin Tamsah, and Um Farida, STIE Amkop, Makassar, Indonesia
Anfin Tapi Oiyhoe, Universitas Pattimura, Maluku, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia
A. Ocmataya Teni Awaru, Department of Sociology Education, Makassar State University
Andries Liorado, University of Sriwijaya, Palembang, Indonesia

ID 1236  Design of the address and strategic plan of the microenterprise Chepas Franciscanas s.a.s
José David Bohórquez Gil and Kendra Pérez Hernández, Faculty of Industrial Engineering, Bolivar University of Technology, Cartagena, Colombia
Carlos Humberto Gualdron García, Faculty of Industrial Engineering, Bolivar University of Technology, Cartagena, Colombia

March 11, 2021 (Thursday) - Session: 5:00 – 6:30 pm

5:00 – 6:30, THURSDAY
Global Supply Chain and Logistics Education
Room 1

Session Chair: Dr. Sujeeet Singh, Indian Institute of Management Jammu, India

5:00 pm (Thursday, March 11)

Dr. Rajeev Agrawal
Associate Professor
Mechanical Engineering Department
Associate Dean (Research)
Malaviya National Institute of Technology Jaipur, India
Disruptive technologies in supply chain for promoting sustainability

5:20 pm (Thursday, March 11)

Dr. Ibrahim CIL
Professor, Department of Industrial Engineering
Sakarya University
Sakarya, Turkey

5:40 pm (Thursday, March 11)

Dr. Sujeeet Singh
Assistant Professor and Chairperson (Research)
Indian Institute of Management Jammu
India

6:00 pm (Thursday, March 11)

Dr. Rajesh Kr Singh
Professor (Operations and SCM)
Management Development Institute, Gurgaon
Gurgaon, Haryana, India
Associate Editor-International Journal of Consumer Studies (ABDC-"A") and Journal of Global Business and Competitiveness

5:00 – 6:30, THURSDAY  Facilities Planning and Layout  Room 2

Session Chair: Choesnul Jaqin, Master of Industrial Engineering Programme, Universitas Mercu Buana, Jakarta, Indonesia

ID 466  A Facility Layout Improvement Design Model in Selected Garments Manufacturing in Metro Manila
Omar Shariff C. Mailan, Almarose C. Villapando and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 405  The Impact of Industry 4.0 on Facility Layout Planning
Sahil Lahoria, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University (PDPU), Raysan, Gandhinagar, Gujarat, India
M.B. Kiran Department of Mechanical Engineering School of Technology Pandit Deendayal Petroleum University (PDPU) Raysan, Gandhinagar, Gujarat, India

ID 008  Smart sustainable manufacturing: From Literature review to a green framework
Imane Benkhati, Faculté des Sciences Semlalia Marrakech Casablanca Grand Casablanca, Morocco

ID 900  Aggregate Production Planning: A Case Study of Installation Elevator Company
Chanipa Nivasanon and Isaree Srikan, Faculty of Industrial Technology, Phranakhon Rajabhat University, Thailand
Pasura Aungkulanon, Faculty of Engineering, King Mongkut’s University of Technology North Bangkok, Thailand

ID 908  Application of Quick Scan Technique to Increase Productivity in Garment Manufacturing Industry
Katesara Wongchalya, Department of Industrial Engineering, Chiang Mai University, Chiang Mai, Thailand
Poti Chaopaisam, Center of Excellence in Logistics and Supply Chain Management, Chiang Mai University, Chiang Mai, Thailand
Sainatee Chembumroong, Faculty of Business Administration, Chiang Mai University, Chiang Mai, Thailand

ID 1303  On the dependency of material flows on quality and the configuration of the inspection system
Moshe Eben-Chaime, Department of Industrial Engineering & Management, Ben Gurion University of the Negev, Be’er Sheva, Israel

ID 1152  Improving Curing Process Productivity in the Tire Industry Using OEE, TPM and FMEA Methods
Choesnul Jaqin, Master of Industrial Engineering Programme, Universitas Mercu Buana, Jakarta, Indonesia

5:00 – 6:30, THURSDAY  Business Analytics  Room 3

Session Chair: Abdalla Aishdan, Industrial Engineering Department, Alfaaisal University, Riyadh, KSA

ID 332  Gender, Student Background, and the Implications for the Emergence of Student Entrepreneurial Activities
Eniara Astuty, Okky Rizkia Yustian, and Chynntia Ika Ratnapuri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung Campus, Bandung, Indonesia

ID 166  Effects of Parental Involvement in Remote Learning as a Response to the Educational Needs of Students in the Philippines
Criselle Jennyllyn A. Basco, Khalil P. Birung, Maria Veronica G. Celfo, Jasper A. Espanola, Saira S. Murcia, and Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines

ID 262  Social Development of Healthcare Workers in the Philippines during the COVID-19 Pandemic
Dominic D. Guarin, Glenn Armand C. Sia, Sharmaine Jane O. Sibug, Candie Gail V. Lopez, Joshua L. Leonardo, and Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines
ID 337 Designing Service Quality Improvement for Halal Certification in Indonesia Food Industry through Measurement of Service Quality (SERVQUAL) and Business Process Re-engineering (BPR)
Hafizha Marianto Putri, M. Dachyar, and Rahmat Nurcahyo, Industrial Engineering Department, Universitas Indonesia, Indonesia

ID 011 Food Waste Management of Restaurants in KwaZulu-Natal South Africa
Saijal Sucheran and Oludolapo A. Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

ID 796 Establish Relation in Collaborative Governance in Micro and Small Business Development in Palopo City, South Sulawesi Province, Indonesia
Andi Meriam, Department of Financial Management, Faculty of Economy, University of Andi Djemma, Palopo, 91921, Indonesia
Harsya Harun, Department of Public Administration, Faculty of Social and Political Science, University of Andi Djemma, Palopo, 91921, Indonesia

ID 626 Monitoring Water Consumption Using Machine Learning
Malek Almobarek, Design, Manufacturing & Engineering Management, University of Strathclyde, Glasgow, UK
Abdalla Alrshdan, Industrial Engineering Department, Alfaisal University, Riyadh, KSA

5:00 – 6:30 pm, THURSDAY Disruptive Technologies / Smart Technologies Room 4
Session Chair: Alfonso, Adrian B., Mapua University, Makati City, Philippines

ID 388 Additive Manufacturing using Titanium Alloys- A Review
M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 595 Proposed Innovations on Contact Tracing System using Contactless Smart Cards in the Philippines
Darwin A. Medel, Joshua Millard N. Odica, Ma. Zhenadoah Leen T. Santos, and Grace Lorraine D. Intal, School of Information Technology Mapúa University, Intramuros, Manila, Philippines

ID 383 Supply chain design using Industry 4.0-A Review
M.B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India

ID 1104 A Vulnerability Assessment on the Parental Control Mobile Applications’ Security: Status based on the OWASP Security Requirements
Eric B. Blancaflor, Kiel Cedrick T. Huplo, Gerardine Anne J. Anson, Mark Anthony V. Marin, Angela Mae V. Encinas and Stephany G. Zamora, School of Information Technology, Mapua University, Makati City, Philippines

ID 1105 Let’s Go Phishing: A Phishing Awareness Campaign using Smishing, Email Phishing, and Social Media Phishing Tools
Alfonso, Adrian B., Banganay, Kevin Nicholas U., Dela Cruz, Gabriel Angelo B., Blancaflor, Eric B., Fernandez, Karen E. and Santos, Shawn Austin M., School of Information Technology, Mapua University, Makati City, Philippines

ID 387 A short survey on the role of technology in transforming education
Somya Agrawal, Department of Information Management, Chaoyang University of Technology, Taichung, Taiwan

5:00 – 6:30 pm, THURSDAY Teaching and Learning Room 5
Session Chair: Johan Patrick, Institute Teknologi Sepuluh Nopember, Indonesia

ID 1237 Prediction of Student’s Performance Using Support Vector Machine Classifier
Farhatul Janan, Department of Industrial and Production Engineering, Bangladesh University of Textiles, Tejgaon, Dhaka- 1208, Bangladesh
Sourav Kumar Ghosh, Department of Industrial and Production Engineering, Bangladesh University of Textiles, Tejgaon, Dhaka- 1208, Bangladesh

ID 1238 Prediction of Student’s Performance Using Random Forest Classifier
Sourav Kumar Ghosh and Farhatul Janan, Department of Industrial and Production Engineering, Bangladesh University of Textiles, Dhaka 1208, Bangladesh

ID 1239 Personals Endorsement Based on Digital Marketing in Islamic Educational Institution; an Effort to Increase Brand Credibility
Akmal Mundiri, IAIN Pekalongan, Central Java, Indonesia
Hasan Baharan, Nurul Hidayati Aprilia Haslina, Firtiatus Sholikah, and Aisyah, Nurul Jadid University, Probolinggo, East Java, Indonesia
Zamroni, Institut Agama Islam Negeri Samarinda, Indonesia
Đakir, Institut Agama Islam Negeri Palangka Raya, Central Kalimantan, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1240 Gadget Media for the Effectiveness of Student Learning
Mastikawati, PIAUD STAI Ahsanta Jambi
Faizatul Widat, Sofian Syafial Rizal, Suraida Fatma, Rohaniyah, and Rukmiati, Nurul Jadid University, Probolinggo, East Java, Indonesia
Edi Kurniawan Farid, University of Zainul Hasan Genggong, Probolinggo, East Java, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1241 Efforts to Improve Student Learning Outcomes; Identification of Learning Models in Madrasah
Đakir, Institut Agama Islam Negeri Palangka Raya, Central Kalimantan, Indonesia
Zamroni, Institut Agama Islam Negeri Samarinda, Indonesia
Đakir, Institut Agama Islam Negeri Palangka Raya, Central Kalimantan, Indonesia
Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 1242 Analysis of Student Satisfaction Using Online Video Conference Application based on Usability Criteria
### March 11, 2021 (Thursday) - Session: 6:30 – 8:00 pm

#### Global Supply Chain and Logistics Education  
**Room 1**

**Session Chair:** Dr. Rajesh Kr Singh, Management Development Institute, Gurgaon, Haryana, India

**6:30 pm (Thursday, March 11)**

**Dr. Gunjan Soni**  
Assistant Professor  
Malaviya National Institute of Technology Jaipur  
Jaipur, Rajasthan, India

**6:50 pm (Thursday, March 11)**

**Prof. Atour Taghipour**  
Professor of Operations & Supply Chain Management  
Normandy University  
Le Havre, Normandy, France

**7:10 pm (Thursday, March 11)**

**Dr. Tarvo Niine**  
Associated Professor of Supply Chain Management  
Tallinn University of Technology  
Tallinn, Estonia

#### Waste Management  
**Room 2**

**Session Chair:** Agus Mulyadi, Industrial and System Engineering Department, Sepuluh Nopember Institute of Technology (ITS), Surabaya, 60111, Indonesia

**ID 203** A Performance Analysis and Modification of a Biogas Plant for Slaughter House Waste Disposal  
Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa  
Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

**ID 135** Design of Water Treatment Facilities for Integrated Areas of Office and Residential Buildings in Jakarta  
Mochamad Agmamosa, Rahmat Nurcahyo, and M. Dachyar, Industrial Engineering Department, Universitas Indonesia, Depok 16436, Indonesia

**ID 050** Garbage Ship as an Island Waste Management Solution; Study Case of Gili Indah, Lombok  
Agum Setyo Bintoro, Refiantika Rachma Utami, and Suci Amalia Putri, Department of Marine Transportation Engineering, Faculty of Marine Technology, Institut Teknologi Sepuluh Nopember Surabaya East Java Indonesia  
Wimolo Katamsi, Department of Naval Architecture, Faculty of Marine Technology, Institut Teknologi Sepuluh Nopember, Surabaya, East Java, Indonesia

**ID 148** Literature Review of Coal Waste Utilization  
Nisrina Nabella Putri, Sangki Purabaya, Asrur Roziki, and Nurchadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia

**ID 747** Techniques for Better Management of Municipal Solid Waste Strategies: A Case Study of Moratuwa Municipality, Sri Lanka  
A.P.K.D. Mendis and Menaha Thayaparan, Department of Building Economics, University of Moratuwa, Sri Lanka

**ID 857** Managing Hazardous Medical Waste during COVID-19: A Simulation Approach  
Agus Mulyadi and Niniet Indah Arvitrada, Industrial and System Engineering Department, Sepuluh Nopember Institute of Technology (ITS), Surabaya, 60111, Indonesia

**ID 1084** Natural Implications of Crude Oil Spillage: A Case Study of Otuokpoti Oil Field, Bayelsa, Nigeria  
Ngene Tochukwu and Oyekola Peter, Department of Applied Physics & Mechanical Engineering, Papua New Guinea University of Technology, Papua New Guinea  
Ikpeteboa Abigail, Ministry of Water Resources, Bayelsa State, Nigeria

#### Work Design, Measurement and ISO  
**Room 3**

**Session Chair:** Riska Rizqiwati, Department of Technology Management, Institut Technology Sepuluh Nopember, Surabaya, Indonesia

Era Febriana Aqidawati, Master Program of Industrial Engineering Dept., Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
ID 105  Internal and External Factors Analysis of Calibration Laboratory Accreditation in Strengthening Indonesia Quality Infrastructure
Nur Aeni, Rahmat Nurcahyo and Djoko Sihono Gabriel, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 342  Predictors of Work-From Home Sustainability
Sophrene Claire S. Gadacho, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines
Erika Mae D. Jose, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines
Audrey Patricia Loraine B. Uson, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines
Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines

ID 447  The Effect of Mental Workload, Stress, and Learning Motivation on Student Learning Achievement during Online Courses
Dyah Santhi Dewi and Faricha Khairunnafi
Department of Industrial and Systems Engineering, FTIRS, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, East Java, Indonesia

ID 764  Improving the Performance of a Chiller System during Operation
Peter Baonhe Sob, Vaal University of Technology, South Africa

ID 911  Design of Supplier Performance Measurement for Aircraft Material Supplier in Aircraft Maintenance Company
Riska Rizqiwati, Department of Technology Management, Institut Technology Sepuluh Nopember, Surabaya, Indonesia

ID 446  Designing of Building Readiness Assessment Instruments in Accordance with the Covid-19 Protocol
Anny Maryani, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

ID 569  Framework on Safety Influential Factors for the Performance of Malaysian Construction Industry
Niniet Indah Arvitrīda, Department of Industrial and System Engineering, Institut Technology Sepuluh Nopember, Surabaya, Indonesia

ID 341  Predictors of Work-From Home Sustainability
Sophrene Claire S. Gadacho, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines
Erika Mae D. Jose, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines
Audrey Patricia Loraine B. Uson, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines
Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines

ID 447  The Effect of Mental Workload, Stress, and Learning Motivation on Student Learning Achievement during Online Courses
Dyah Santhi Dewi and Faricha Khairunnafi
Department of Industrial and Systems Engineering, FTIRS, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, East Java, Indonesia

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Riska Rizqiwati, Department of Technology Management, Institut Technology Sepuluh Nopember, Surabaya, Indonesia

ID 446  Designing of Building Readiness Assessment Instruments in Accordance with the Covid-19 Protocol
Anny Maryani, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

ID 569  Framework on Safety Influential Factors for the Performance of Malaysian Construction Industry
Niniet Indah Arvitrīda, Department of Industrial and System Engineering, Institut Technology Sepuluh Nopember, Surabaya, Indonesia

6:30 – 8:00 pm, THURSDAY  Room 4

Occupational Safety and Health (OSH)

Session Chair: Jafri Mohd Rohani, Universiti Teknologi Malaysia, Johor Bahru, Johor, Malaysia

ID 386  Contribution to the Quantitative Study of Violence in Algerian Hospital Environment
Yamina Heddar, Mèbarek Djezbabra and Saadai Saadī, Laboratory of Research in Industrial Prevention, Institute of Health & Safety, University of Chahid Mostephe Ben Boulaid Batna 2, Batna, Algeria

ID 446  Designing of Building Readiness Assessment Instruments in Accordance with the Covid-19 Protocol
Anny Maryani, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

ID 569  Framework on Safety Influential Factors for the Performance of Malaysian Construction Industry
Mosab Sultan Saeed Albarkani, Faculty of Technology Management and Business, Department of Construction Management, University Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia
Haryati Binti Shafii, Faculty of Technology Management and Business, Department of Construction Management, University Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia

ID 390  HFACS Analysis for Investigating Human Errors of an Algerian Oil & Gas company
Saadai Saadī, Mèbarek Djezbabra and Chuecham Adel, Laboratory of Research in Industrial Prevention, Institute of Health & Safety, University of Chahid Mostephe Ben Boulaid Batna 2, Batna, Algeria

ID 428  Predictors of Lean Enterprise: A Case of Assessing Organizational Lean Readiness
Jaypy T. Tenerife, Industrial Engineering Program, Technological Institute of the Philippines, Manila, Philippines

ID 426  Scheduling Operating Room by Considering Surgical Inventory, Post Anesthesia Beds and Emergency Surgeies to Improve Efficiency during the COVID-19 Outbreak with Machine Learning
Shahab Amrollahioubi, and Yvan Beauregard, Mechanical Engineering Department, École de Technologie Supérieure, Montréal, Canada

ID 429  Occupational Accidents and Prevention through Design in the Malaysian Construction Industry
Mohammed Yahya Ali Yahya, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Malaysia
Jafri Mohd Rohani, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, UTM Johor Bahru, Johor, Malaysia

6:30 – 8:00 pm, THURSDAY  Room 5

Environmental Engineering

Session Chair: Muna Al-Obadi, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar

ID 552  Internal and External Factors Affecting ISO 14001 Certification in the Indonesian Food Industry: Lesson from the Experts
Noviana Bayu Alnavis and Dwi Novo Martono, School of Environmental Science, Universitas Indonesia, Salemba, 10430, Jakarta, Indonesia
Udi Syahnoedi Hamzah, Master of Petroleum Engineering, Universitas Trisakti, Grogol, 11440, Jakarta, Indonesia

ID 632  In Silico Study of Tyramine-Fe Complex in Brotowali (Tinospora crispa) as Anti-Inflammatory
Wimbuh Tri Widodo, Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University, Malang, East Java, Indonesia
Djoko Henry Santijojo, Department of Physics, Faculty of Mathematics and Natural Sciences, Brawijaya University, Malang, East Java, Indonesia
ID 825  Vulnerability to Hydrometeorological Hazards: A Barangay Level Assessment for the Municipality of Boac, Marinduque
Josephine D. German and Ma. Monica L. Joven, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines
Delia B. Senoro, School of Civil, Environmental, and Geological Engineering, Resiliency and Sustainable Development Center, Mapúa University, Manila, Philippines
Froilan P. Ney, School of Graduate Studies, Mapúa University, Manila, Philippines, School of Engineering, Marinduque State University, Marinduque, Philippines

ID 1121  Carbon Footprints across the Food Supply Chain: A Microscopic Review on Food Waste-Related Sustainability Assessment
Muna Al-Obadi, Adeeb A. Kutty, Galal M. Abdella, and Murat Kucukvar, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar
Muhammet Enis Bulak, Industrial Engineering, Faculty of Engineering and Natural Sciences, Uskudar University, Istanbul, Turkey

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March 11, 2021 (Thursday) - Session: 8:00 – 10:00 pm

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First Central American Symposium on Industry 4.0, Logistics 4.0 and Manufacturing 4.0, San Jose, Costa Rica, June 12-13, 2019
Second IEOM Fellows Induction at the IEOM Bangkok Conference on March 6, 2019
Faculty of Civil and Industrial Engineering of Sapienza – University of Rome, Italy
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Pro-Vice Chancellor Strategic Partnerships and Industrialisation
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Mt Pleasant, Harare, Zimbabwe

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Prof. Vitor Mendes Caldana
Federal Institute of Sao Paulo (IFSP) – Sorocaba Campus
Sorocaba, Sao Paulo, Brazil

Dr. Eldon Caldwell
Director, Industrial Engineering Department
Engineering School
University of Costa Rica
San Jose, Costa Rica

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Greensboro, North Carolina, USA

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School of Science & Engineering
Al Akhawayn University
Ifrane, Morocco

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Department of Industrial and Manufacturing Engineering
Wichita State University
Kansas, USA

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Professor Bernardo Villarreal, Ph.D.
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Universidad de Monterrey
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Upcoming Events

2nd South American Conference on Industrial Engineering & Operations Management
São Paulo, Brazil, April 5 – 8, 2021
A Virtual Conference

Conference Website: www.ieomsociety.org/rome2020/

4th EU International Conference on Industrial Engineering & Operations Management
Rome, Italy, August 3 - 5, 2021
Venue: Sapienza – University of Rome

Conference Website: www.ieomsociety.org/istanbul2022/

1st Indian International Conference on Industrial Engineering and Operations Management
August 16-18, 2021, Bangalore, India
Host: Amrita University, Bangalore

http://ieomsociety.org/india2021

1st Asia Pacific Conference on Industrial Engineering and Operations Management
Sept. 14-16, 2021, Surakarta, Indonesia
Host: Sebelas Maret University (UNS)

http://ieomsociety.org/indonesia2021/

6th North American Conference on Industrial Engineering & Operations Management
Monterrey, Mexico, November 3-5, 2021
Venue: CINTERMEX-Monterrey Convention Center

www.ieomsociety.org/monterrey2020/

12th Annual IEOM Conference
Istanbul, Turkey, March 8-10, 2022
Venue: Kadir Has University
Conference Website: www.ieomsociety.org/istanbul2022/