First Asia Pacific Conference on Industrial Engineering and Operations Management

Harbin, China

July 9-11, 2021

Host University
Welcome to the 1st IEOM Society Asia Pacific Conference on Industrial Engineering and Operations Management, Harbin, China, July 9-11, 2021

Greetings Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to Harbin, China, and the First Asia Pacific Conference on Industrial Engineering and Operations Management, July 9-11, 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 significant trends in industrial engineering and operations management.

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

1. Dr. Zhenyu (James) Kong, Professor, Grado Department of Industrial and Systems Engineering, Virginia Tech, Blacksburg, Virginia, United States
2. Dr. Cyrille Breard, Principal Noise Engineering Lead, Shanghai Aircraft Design & Research Institute – COMAC, Shanghai, China
3. Dr. NG Szu Hui, Associate Professor, and Acting Head, Department of Industrial Systems Engineering and Management, National University of Singapore
4. Dr. Vincent Guo Xin, Director of Business Development, Siemens Digital Industries Software, Shanghai, China
5. Dr. Saso Krstovski, MBB, Lean Manufacturing Coach /Six Sigma Master Black Belt, Van Dyke Transmission Plant, Ford Motor Company, Michigan, USA
6. Prof. George Q. Huang, Chair Professor and Head, Department of Industrial and Manufacturing Systems Engineering, Director of HKU-ZIRI Laboratory of Physical Internet, The University of Hong Kong, Hong Kong, China
7. Dr. Xinlong Wang, Development Leader, JANPOS company, Ningbo, China
8. Prof. Ruth Banomyong, Dean, Thammasat Business School, Thammasat University, Thailand
9. Jd Marhevkov, Vice President of Quality, ZF Division U. Electronics & ADAS, ZF Group, Farmington Hills, MI, USA
10. Dr. Sri Talluri, Hoagland-Metzler Endowed Professor in Purchasing and SCM, Department of Supply Chain Management, Broad College of Business, Michigan State University, East Lansing, MI, USA
11. Dr. Lu ZHEN, Dean and Professor, School of Management, Shanghai University, Shanghai, China
12. Dr. Pengxiang Wang, Associate Prof., School of Energy Science and Engineering, Harbin Institute of Technology, China
13. Dr. Yuchun Xu, Professor and Chair in Manufacturing, School of Engineering and Applied Science, Aston Institute of Urban Technology and the Environment (ASTUTE), Aston University, Birmingham, United Kingdom

The 23rd IEOM Society Global Engineering Education session will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The Industry Solutions and Industry 4.0 will showcase industry best practices and intelligent integration. IEOM Global Supply Chain and Logistics will address the global logistics challenges due to the worldwide pandemic.

The IEOM Society expresses our deep appreciation to the conference organizing committee, organization partners, authors, and keynote speakers to support this event. Global engineering education speakers, global supply chain speakers, industry solutions speakers and the local committee make this unique, the first Asia Pacific conference a great successful event.

Harbin Institute of Technology (HIT), the conference host, welcomes all participants. The IEOM Society Conference Planning Committee hopes you will have a wonderful experience at the conference.

Enjoy the conference!

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

Dr. Ahad Ali
Conference Co-Chair
Associate Professor and Director of Industrial Engineering Program
Lawrence Technological University
Southfield, Michigan, USA

Professor Donald M. Reimer
Program Chair
Director of Membership and Chapter Development
IEOM Society International
President, The Small Business Strategy Group, Detroit
Adjunct Faculty – Lawrence Tech
Detroit, Michigan, USA
## Conference Program

### July 9, 2021 (Friday)

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<td>Parallel Sessions - Rooms 1-3</td>
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<td>9:30 – 9:45 am</td>
<td>Conference Opening: Room 1</td>
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<tr>
<td>9:45 – 10:00 am</td>
<td>Welcome Keynote Address: 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 - Room 1</td>
</tr>
<tr>
<td>10:00 – 10:40 am</td>
<td>Keynote I (Opening Keynote): Dr. Zhenyu (James) Kong, Professor, Grado Department of Industrial and Systems Engineering, Virginia Tech, Blacksburg, Virginia, United States - Room 1</td>
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<tr>
<td>10:40 – 11:20 am</td>
<td>Keynote II: Dr. Cyrille Breard, Principal Noise Engineering Lead, Shanghai Aircraft Design &amp; Research Institute – COMAC, Shanghai, China - Room 1</td>
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<td>11:20 – 11:30 am</td>
<td>Break</td>
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<td>11:30 am – 12:10 pm</td>
<td>Keynote III: Dr. NG Szu Hui, Associate Professor and Acting Head, Department of Industrial Systems Engineering and Management, National University of Singapore - Room 1</td>
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<td>12:10 – 12:50 pm</td>
<td>Keynote IV: Vincent Guo Xin, Director of Business Development, Siemens Digital Industries Software, Shanghai, China - Room 1</td>
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<td>1:00 – 2:45 pm</td>
<td>Parallel Sessions - Rooms 1-3</td>
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<td>3:00 – 4:45 pm</td>
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<td>5:00 – 6:45 pm</td>
<td>Parallel Sessions - Rooms 1-3</td>
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### July 10, 2021 (Saturday)

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<td>8:00 – 9:45 am</td>
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<tr>
<td>9:45 – 10:00 am</td>
<td>Welcome Address: Room 1</td>
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<tr>
<td>10:00 – 10:40 am</td>
<td>Keynote V: Dr. Saso Krstovski, MBB, Lean Manufacturing Coach /Six Sigma Master Black Belt, Van Dyke Transmission Plant, Ford Motor Company, Michigan, USA - Room 1</td>
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<tr>
<td>10:40 – 11:20 am</td>
<td>Keynote VI: Prof. Ruth Banomyong, Dean, Thammasat Business School, Thammasat University, Thailand</td>
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<td>11:20 – 11:30 am</td>
<td>Break</td>
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<tr>
<td>11:30 am – 12:10 pm</td>
<td>Keynote VII: Dr. Xinlong Wang, Development Leader, JANPOS Company, Ningbo, China - Room 1</td>
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<td>12:10 – 12:50 pm</td>
<td>Keynote VIII: Prof. George Q. Huang, Chair Professor of Industrial and Systems Engineering, Head of Department, Director of HKU-ZIRI Laboratory of Physical Internet, Department of Industrial and Manufacturing Systems Engineering, The University of Hong Kong, Hong Kong, China - Room 1</td>
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### July 11, 2021 (Sunday)

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<tr>
<td>8:00 – 9:30 am</td>
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<tr>
<td>9:30 – 9:40 am</td>
<td>Conference Chair Remarks: Room 1</td>
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<td>9:40 – 10:20 am</td>
<td>Keynote IX: Jd Marhevko, Vice President of Quality, ZF Division U. Electronics &amp; ADAS, ZF Group, Farmington Hills, Michigan, USA - Room 1</td>
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<tr>
<td>10:00 – 11:00 am</td>
<td>Keynote X: Dr. Sri Talluri, Hoagland-Metzler Endowed Professor in Purchasing and SCM, Department of Supply Chain Management, Broad College of Business, Michigan State University, East Lansing, Michigan, USA - Room 1</td>
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<td>11:00 – 11:40 am</td>
<td>Keynote XI: Dr. Lu ZHEN, Dean and Professor, School of Management, Shanghai University, Shanghai, China - Room 1</td>
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<tr>
<td>11:40 am – 12:20 pm</td>
<td>Keynote XII: Dr. Pengxiang Wang, Associate Professor, School of Energy Science and Engineering, Harbin Institute of Technology, China - Room 1</td>
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<tr>
<td>12:20 – 1:00 pm</td>
<td>Keynote XIII: Dr. Yuchun Xu, Professor and Chair in Manufacturing, School of Engineering and Applied Science, Aston Institute of Urban Technology and the Environment (ASTUTE), Aston University, Birmingham, United Kingdom</td>
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<td>Parallel Sessions - Rooms 1-3</td>
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<td>8:00 – 10:00 pm</td>
<td>Conference Awards Ceremony - Virtual</td>
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All times are in China Time.
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 “963” 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.

Dr. Zhenyu (James) Kong  
Professor, Grado Department of Industrial and Systems Engineering  
Virginia Tech, Blacksburg, Virginia, United States

Dr. Zhenyu (James) Kong is currently a professor with the Grado Department of Industrial and Systems Engineering at Virginia Tech. Prior to joining Virginia Tech in 2013, he had been a faculty member with the School of Industrial Engineering and Management at Oklahoma State University since 2006. He also worked as a senior research engineer in Dimensional Control Systems Inc., Troy, Michigan, from 2004 to 2006. He received his Ph.D. from the Department of Industrial and System Engineering at the University of Wisconsin-Madison in 2004, and his B.S. and M.S. in Mechanical Engineering from the Harbin Institute of Technology, China, in 1993 and 1995, respectively. His research focuses on sensing/analytics/control for advanced manufacturing, and modeling/synthesis/diagnosis for large and complex manufacturing systems. His research contributions have been recognized by eight Best Papers/Poster awards in IIEEE annual conference, INFORMS annual meeting, and IIEEE Transactions, and featured four times by IIEEE magazine. His external research funding amounts to over ~$15M with personal share of ~$5M sponsored by the federal agencies such as NSF, DoE, and DoD, as well as industries. He has published over 60 peer-reviewed journal articles. He has been honored with several awards including Fellow of Institute of Industrial and Systems Engineers (IISE) in 2020, Dean’s Award for Research Excellence in 2019, College of Engineering, Virginia Tech; and Halliburton Outstanding Faculty Award in 2013, College of Engineering, Architecture and Technology, Oklahoma State University.

Dr. Cyrille Breard

Principal Noise Engineering Lead  
Shanghai Aircraft Design & Research Institute - COMAC  
Shanghai, China

Cyrille Breard is currently holding the position of C919 program Noise & Emission Manager at Shanghai Aircraft Design and Research Institute (SADRI), the product development branch of Commercial Aircraft Corporation of China, Ltd (COMAC). Current development activities cover community noise, cabin comfort, ramp noise and sonic fatigue as well as emission. And top of his responsibilities, he is extremely involved in broad activities across the company, such as marketing research, flight test center, risk management, system requirements, organization change. He provides technical advices to China member during Civil Aviation Environmental Protection meeting under UN/ICAO for noise and emission.

In 2012, he was awarded by the Recruitment Program of Global Experts. In September 2012, he received the National Friendship Award from the Chinese government. Between 2005 and 2010, he managed and participated to several aero-acoustic research development programs at the Boeing Company. Most of those
projects directly impacted acoustic liner design of the Boeing 787 and 747-8 airplanes through the Quiet Technology demonstrator in partnership with GE, Goodrich, ANA and NASA. In 2001, he was a senior engineer at Analytical Methods (USA). In 1997, he was a research associate at Imperial College at the Rolls-Royce research center of Vibration Engineering (UK). He obtained his PhD diploma from the University of Le Havre (France) in 1996 and performed doctoral and post-doctoral research projects at National Technical University of Athens (Greece). In addition, he obtained Technical Management MBA degree from the Foster Business School of the University of Washington (USA) in 2010. He is a senior member of AIAA (American Institute of Aeronautics and Astronautics).

Keynote III: Friday, July 9, 2021, 11:30 am - 12:10 pm

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 of 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.

Keynote IV: Friday, July 9, 2021, 12:10 - 12:50 pm

Vincent Guo Xin
Director of Business Development
Siemens Digital Industries Software
Shanghai, China

ID 57 Advanced Robotics and Artificial Intelligence with the Digital Twin of Production for the Factory of the Future

Vincent Guo Xin, Strategy and Portfolio Management, Digital Manufacturing Segment, Siemens Digital Industries Software, Shanghai, 200082, P. R. China
Moshe Schwimmer, Strategy and Portfolio Management, Digital Manufacturing Segment, Siemens Digital Industries Software, 2 Negev St. Airport City 7010000, Israel

Dr. Xin Guo is a Director of Business Development in the digital manufacturing segment of Siemens Digital Industries Software. He is a part of the global team that is responsible for product and sales strategy in Siemens’ manufacturing simulation and validation portfolio of industrial robotics, automation equipment, and human operations. He works with product management and R&D department in Israel, USA, and Germany on digital enterprise solutions, process simulation and validation of automation, offline programming of robotics, virtual commissioning of production lines, as well as the application and innovation in traditional and new energy cars, electronics, heavy equipment, aerospace, and other legacy or emerging verticals. Before joining Siemens Digital Industries Software, Dr. Guo was a director in Siemens’ corporate venture capital unit Next47 and Siemens’ central innovation organization Corporate Technology (now known as Siemens Technology). He was leading the investment, technology incubation, and partnership with start-up companies in advanced manufacturing, energy, and healthcare sectors. Dr. Guo received his PhD and MS from California Institute of Technology (Caltech) after he obtained BS in Peking University.

Saturday, July 10

Welcome Address: Saturday, July 10, 2021, 9:45 - 10:00 am

Keynote V: Saturday, July 10, 2021, 10:00 - 10:40 am

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 (DMS). 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.

Keynote VI: Saturday, July 10, 2021, 10:40 - 11:20 am

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 Universitée 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).

11:20 - 11:30 am - Break

Keynote VII: Saturday, July 10, 2021, 11:30 am - 12:10 pm

Dr. Xinlong Wang  
Development Leader  
JANPOS Company  
Ningbo, China

Dr. Xinlong Wang is a world expert in 3D geometric modeling, visualization, computer vision and numerical grid technologies, working as a development leader of the JANPOS company in Ningbo, China. In 1997, he graduated from Harbin Institute of Technology with a Doctor of Engineering degree. He worked as a postdoctoral researcher in Tsinghua University, Northwestern University and University of Utah. His main research areas are computer graphics, visualization of scientific computation and graphics and image simulation. Later, he joined the U.S. industry and worked as a product development engineer and senior engineer for CD-adapco and ANSYS/Fluent, where he was engaged in the development of computational fluid dynamics software, mainly responsible for geometric modeling and discretization.

Over the past 20 years, Dr. Wang Xinlong’s work has spanned both academic and engineering fields. He has not only participated in a number of key and major projects of the 7th and 8th Five-year Plan and the 863 Program of China, but also served as the principal of the sub-project of CIMS engineering projects of some famous large state-owned enterprises, published more than 30 academic papers and obtained a number of invention patents. In recent years, he mainly engaged in technical consulting projects related to industrial automation, involving the fields of graphics and image processing, computer vision, and artificial intelligence.

Keynote VIII: Saturday, July 10, 2021, 12:10 - 12:50 pm

Prof. George Q. Huang, BEng PhD CEng FASME FIET FHKIE FCILT MIIE  
Chair Professor and Head of Department of Industrial and Systems Engineering  
Director of HKU-ZIRI Laboratory of Physical Internet  
Department of Industrial and Manufacturing Systems Engineering  
The University of Hong Kong. Hong Kong, China

Prof. George G.Q. Huang is Chair Professor and Head of Department in Department of Industrial and Manufacturing Systems Engineering, The University of Hong Kong. He gained his BEng and PhD in Mechanical Engineering from Southeast University (China) and Cardiff University (UK) respectively. He has conducted research projects in the field of Physical Internet (Internet of Things) for Manufacturing and Logistics with substantial government and industrial grants. He has published extensively including over two hundred refereed journal papers in addition to over 200 conference papers and ten monographs, edited reference books and conference proceedings. His research works have been widely cited in the relevant field. He serves as associate editors and editorial members for several international journals. He is a Chartered Engineer (CEng), a fellow of ASME, HKIE, IET and CILT, and member of IIE.

Prof. George G.Q. Huang has been serving on editorial boards of a number of international journals. He is Editor for Asia Pacific for International Journal of Computer Integrated Manufacturing, Associate Editor of International Journal of Production Research, Area Editor for Business & Management for International Journal of Research in Engineering Design, and Associate Editor for Journal of Intelligent Manufacturing.

Prof. George G.Q. Huang received 2014 First-Class Guangdong Province (Department of Science and Technology) on "Mass-Customized Design and Production System", 2007 First-Class Natural Science Award from Chinese Ministry of Education on "Service-oriented manufacturing execution
Dr. Sri Talluri
Haoagland-Metzler Endowed Professor in Purchasing and SCM
Department of Supply Chain Management
Michigan State University
East Lansing, Michigan, USA

Sri Talluri earned the B. S. degree in mechanical engineering in India in 1989, the M. S. degree in industrial and manufacturing systems engineering and the Ph. D. degree in production and operations management from the University of Texas at Arlington in 1992 and 1996, respectively. He is the Haoagland-Metzler Endowed Professor and Professor of Operations and Supply Chain Management at Michigan State University. His research interests are in the areas of supply risk, buyer-supplier relationships and supply contracts, sustainability in supply chains, technology management, and performance evaluation. Sri's methodological expertise lies in the areas of optimization methods (deterministic and stochastic models), game theory, empirical methods (statistical models), and data envelopment analysis. He has more than 100 journal publications in a variety of top-tier academic journals including the IIE Transactions, Decision Sciences, Production and Operations Management Journal, Journal of Operations Management, International Journal of Production Research, European Journal of Operational Research, IEEE Transactions on Engineering Management, and has presented papers in various national and international conferences. Sri has over 11,000 citations of his work and an h-index of 48.

In journal articles published in 2013, 2015, and 2020, Sri was ranked as a top 20 (rank # 17) researcher worldwide in terms of the impact of his work in the domain of data envelopment analysis (Liu, J.S., Lu, Y. Y., Lu, W.M., and Lin, B.J. Data envelopment analysis 1978-2010: A citation-based literature survey, OMEGA, 41, pp. 3-15, 2013), top 1% researcher worldwide in the area of operations management based on publications in elite journals (Shang, G., Saladin, B., Fry, T., and Donohue, J. Twenty-Six Years of Operations Management Research (1985 - 2010): Authorship Patterns and Research Constituents in Eleven Top Rated Journals, International Journal of Production Research, 53(20), pp. 6161 - 6197, 2015), and top 1% management scholar globally based on citations and impact in a study conducted by Stanford University researchers (Bass, J., Boyack, K., and Ioannidis, J. P. A. Updated Science-Wide Author Databases of Standardized Citation Indicators, PLOS Journal, 2020, DOI: 10.17632/btchxktzyw.2), respectively. Sri has delivered invited presentations at various countries that include Australia, United Kingdom, Spain, India, France, Portugal, United Arab Emirates, China, Germany, Denmark, Belgium, Italy, Peru, New Zealand, Finland, and Switzerland. His research is funded by companies and organizations such as Dow Chemical, Lear Corporation, CIBER, McNeil Healthcare, and Center for Advanced Purchasing Studies (CAPS). His consulting experience includes a variety of companies in the area of supply chain optimization, which include SAP, Chrysler, ArcBest, Johnson and Johnson, Accenture, and Dash Optimization.

Dr. Talluri was designated as a Fellow of the Decision Sciences Institute (DSI) in 2019. He is one of the 116 fellows of DSI over the 50-year rich history of the organization. Sri was also a Fulbright Distinguished Chair in Business and Economics for the year 2016-2017, and currently holds the STEP Ahead Awardee, and in 2018, was recognized by Crain’s as a notable Woman in Manufacturing. She holds a BSE and MSA. Jd is a Past-Chair of the ASQ QMD. She currently supports the ASQ QMD in a variety of capacities. Jd has co-authored several books and articles on Lean and Quality Systems; most notably, Accuride Corporation’s Lean Management 50-50-20 as well as a small vignette depicting their family’s journey with autism, A Sample Size of One.

Keynote IX: Sunday, July 11, 2021, 9:40 - 10:20 am

Jd Marhevko
Vice President of Quality, ZF Division U. Electronics & ADAS
ZF Group
Farmington Hills, Michigan, USA

Jd is a ZF VP of Quality for their Electronics & ADAS Division U. This role came on the heels of the BorgWarner (BW) purchase of Delphi Technologies where Jd was the global VP of Quality and Warranty. Jd was also a VP of Operations – Americas for SAF Holland and the SVP of Quality, Lean and EHS for Accuride. Four Accuride sites won the AME Excellence Award and one site won the Industry Week Best Manufacturing Plant of the Year. In 2020, Jd was inducted into the inaugural USA’s Women In Manufacturing (WIM) Hall of Fame. Jd is an ASQ Fellow, Shainin Medalist, CMO/ OE, CQE, CSSBB and MBB. She is also an ASQ Certified Trainer, STEP Ahead Awardee, and in 2018, was recognized by Crain’s as a notable Woman in Manufacturing. She holds a BSE and MSA. Jd is a Past-Chair of the ASQ QMD. She currently supports the ASQ QMD in a variety of capacities. Jd has co-authored several books and articles on Lean and Quality Systems; most notably, Accuride Corporation’s Lean Management 50-50-20 as well as a small vignette depicting their family’s journey with autism, A Sample Size of One.

Keynote X: Sunday, July 11, 2021, 10:20 - 11:00 am

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Keynote XI: Sunday, July 11, 2021, 11:00 - 11:40 am

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 IISE 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, and Changjiang Young Scholar in China, etc.

Keynote XII: Sunday, July 11, 2021, 11:40 am - 12:20 pm

Dr. Pengxiang Wang
Associate Professor
School of Energy Science and Engineering
Harbin Institute of Technology
Harbin, China

Dr. Pengxiang Wang is currently an Associate Professor of School of Energy Science and Engineering at Harbin Institute of Technology. Dr. Wang received his Ph.D degree from the University of Wisconsin, Milwaukee in 2011. Prior to joining HIT in 2015, he was a postdoctoral scholar in Aerospace Engineering Department at Penn State University. He is now focusing his research interests on the applications of big data and data analysis on the energy conversion and utilization. In addition, he works on the studies including numerical simulations of combustion and reacting flow, modelling and numerical simulation of multi-physics process including plasma, ALD, and multi-scale numerical method, et. al.

Keynote XIII: Sunday, July 11, 2021, 12:20 - 1:00 pm

Dr. Yuchun Xu
Professor and Chair in Manufacturing
School of Engineering and Applied Science
Aston Institute of Urban Technology and the Environment (ASTUTE)
Aston University
Birmingham, United Kingdom

Professor Yuchun Xu is a Chair in Manufacturing, leader of two interdisciplinary research themes Digital Engineering, and Circular Economy at Aston University. His research is mainly focused on Smart Manufacturing, Remanufacturing, Life Cycle Engineering and Cost Modeling/Analysis. Prof Xu’s research is sponsored by EPSRC, Innovate UK and EU H2020, FP7 etc. with total profile over £25M. His research closely links with industry to address the challenges associated with Smart Factory, Asset Management, and Circular Economy. His industrial collaborators include Manufacturing Technology Centre, Airbus, Rolls-Royce, QinetiQ and Network Rail etc.

Professor Xu has published over 70 papers largely in leading peer reviewed journals. He is the Member of EPSRC & STFC Peer Review College, the editorial board member and peer reviewer of several leading international journals. Prof Xu regularly serves as the technical and programme committee member and sessions chair of leading international conferences.

Professor Xu’s research interests include Digital Product Development & Manufacturing, Smart Manufacturing & Automation, Remanufacturing & Life Cycle Engineering, Cost Modelling & Engineering-Economic Analysis.

He received Ph.D. in Manufacturing Engineering in 1999 and BEng (1st Hons) in Automotive Engineering in 1993 from Harbin Institute of Technology, China.
Conference Committee

Organizing Committee

Conference Chairs
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First Asia Pacific Conference
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### Submissions and Speakers from Countries

23rd IEOM Global Engineering Education

DISTINGUISHED SPEAKERS

Friday (July 9, 2021)

All Times are China Time

Global Engineering Education – I
8:00 – 9:40 am, Friday, July 9 – Room 1
Session Chair: Dr. Gürsel A. Süer, Ohio University, Athens, OH, USA

8:00 – 8:20 am (Friday, July 9) – Room 1

Dr. Satish Vadlamani
Sr. Mgr. Supply Chain Analytics
Kenco Group
Chattanooga, Tennessee, USA

Satish Vadlamani is a Sr. Mgr. Supply Chain Analytics at Kenco Group, Chattanooga, TN, USA. He earned B.Tech. in Electronics and Communications Engineering, India. A Masters and Ph.D. in Industrial and Systems Engineering from Mississippi State University, USA. Before joining Kenco, Dr. Vadlamani worked at other global supply chain companies like APLL and XPO.

Dr. Vadlamani has passion for applying operations research, machine learning (ML) and artificial (AI) intelligence to solve complex supply chain problems. Dr. Vadlamani has seven years of experience applying ML and AI for problem solving.

Dr. Vadlamani has published at multiple journals and conferences and teaches data science and analytics to people around the globe. His research interests include networks, wireless sensor networks, wireless ad-hoc networks, supply chain networks, network interdiction, location problems, transportation, and meta-heuristics.

Dr. Vadlamani has been an invited speaker at various colleges, universities, and other professional organizations across the globe. He is a member of IEOM, INFORMS and IISE.

8:20 – 8:40 am (Friday, July 9) – Room 1

Dr. Kalaivani Chellappan
Associate Professor, Faculty of Engineering & Built Environment
Universiti Kebangsaan Malaysia
Bangi, Selangor, Malaysia

Kalaivani Chellappan a, Associate Professor in the Faculty of Engineering & Built Environment, Universiti Kebangsaan Malaysia since Nov 2011. Specializes in Healthcare Engineering. Her current research interests are Cardiovascular Engineering Modeling, Internet of Things in Healthcare and Data Modeling & Analytics. She obtained her BEng (Electrical & Electronics) in 1995 for Universiti Sains Malaysia and MSc (CompSc) in 2001 from Universiti Kebangsaan Malaysia. She was conferred a PhD (Engineering) from Universiti Kebangsaan Malaysia in 2009.

Kalaivani’s appointment as a Committee Member of the Telemedicine Development Group (TDG): Special Interest Group (SIG) by the Ministry of Health endorse her 15 years of research contribution in Healthcare Engineering specializing in Cardiovascular Engineering and tele-health based healthcare service development. The recent prototype grant awarded in Dec 2019 for Digital Malay Auditory-Cognitive Wellness Trainer to be developed and launched by year 2021 for the use of the ageing society of Malaysia. 9 out of 10 IP filed are in the field of Healthcare Engineering. Kalaivani’s passion towards education development has been recognised by Selangor State Education Department which has engaged her as the STEM - IoT Mentor for Sepang District. She has engaged with Sepang District schools since 2016 in developing secondary school students towards IR 4.0 knowledge pillars by mentoring and university-school engagement program. Lately the Ministry of Education has appointed her as the Digital Maker Hub Trainer for Sepang District schools.

Since joined UKM in 2011 Kalaivani has secured RM 7.08 million worth of grant from university, government agencies, industries and international funders. Kalaivani has filed 10 IPs in UKM as part of her research contrition. There are 3 patent and 6 copyrights and 1 trademark. Kalaivani has successfully supervised a significant number of postgraduate students, including PhD by research (7 completed, 6 on-going), and MSc by research (6 completed, 2 on-going), MEng by coursework (33 completed, 3 on-going) and Bachelor degree final year project (166 completed, 2 on-going).

Kalaivani has a total of 139 publications consisting of 47 journals (20 ISI, 18 SCOPUS, 9 other indexes), 38 proceedings (12 ISI, 11 SCOPUS, 54 non-index). Many of her articles are published in high-impact journals (12 Q1 journals, 1 Q2 journals, 2 Q3 journals & 5 Q4 journals).
Dr. Gürsel A. Süer  
Professor of ISE Department  
Ohio University, Athens, OH, USA

Gürsel A. Süer is a professor in the ISE Department at Ohio University. He has obtained his BSIE and MSIE degrees from Middle East Technical University, Ankara, Turkey and PhD in IE from Wichita State University. He is on the editorial board of various journals. He has co-chaired two Computers and Industrial Engineering Conferences (1997-Puerto Rico, 2005-Istanbul), ANNIE Conference in 2009. He also initiated Group Technology/Cellular Manufacturing Conferences which were held in 2000-Puerto Rico, 2003-Ohio, 2006-Netherlands, 2009-Japan. He is also organized a workshop on CM/SERU in 2016 Ohio. He was the program chair for FAIM 2018 Conference held in USA and program co-chair for ICPR to be held in Chicago in 2019.

He has consulted various companies such as AVON, HP, General Dynamics, Ocular Science, Lifescan, Circo Caribe, Allergan America, Excel, Vornado, and carried out several funded projects sponsored by MVESC, TS Trim, Ohio University, NSF, AVON, Checkpoint, and Timberland. Most of his research has been motivated by his experiences and observations in industrial settings. His main interests are applied scheduling, manufacturing system design, supply chain, vehicle routing, logistics, applied optimization, decision making, genetic algorithms and hybrid systems, intelligent systems with human component, modeling competitive business strategies. He has offered workshops in Intelligent Manufacturing and Logistics and Cellular Manufacturing in various International Conferences and gave keynote speeches. He has edited seven Conference Proceedings and four special issues with different journals. He has published over 60 journal papers, published 20 chapters in edited books, about 80 refereed conference papers, about 40 conference papers, and made 50 presentations. He also edited a book on cellular manufacturing in 2017.

Claudio C. S. de Freitas, Ph.D.  
Lecturer, Engineering Education  
Department of Rayen School of Engineering in the College of STEM  
Youngstown State University, Youngstown, Ohio, USA

Claudio Freitas will be joining the Department of Rayen School of Engineering in the College of STEM at Youngstown State University as Lecturer in Engineering Education this upcoming fall 2021. Claudio holds a Ph.D in engineering education at Purdue University. He also holds a B S. in Mechatronics from Higher Education Institute of Amazonia in Brazil, and M.S. in Electrical Engineering from the University of Campinas in Brazil. He is a former senior engineer with +7 years of industry experience in embedded and electrical systems. He led the development and implementation of the hardware-in-the-loop testing laboratory from Fiat Chrysler Automobiles in Brazil. He also developed award-winning educational technology tools for humanitarian settings. As a researcher, he has done interdisciplinary research, curriculum design, and instruction in engineering design in displacement settings in Jordan and Kenya. His main research interest lies in the intersection between engineering, technology, and society. He has won several industrial and academic awards, including the Young Scientist Award from the International Society for Engineering Pedagogy, best paper selected by the Duncan Fraser Award from the Research in Engineering Education Symposium 2019, and selected as part of the "Future Entrepreneur Initiative" supported by the Redemprendia program. He has co-authored 3 journal publications and more than 17 conference papers. He served as the President and Global Student Forum international chair for the Student Platform for Engineering Education Development which aimed to provide a student voice to the global engineering education community. He also co-founded an award-winning organization called Student Chapter of the Brazilian Automation Society which aimed to foster the integration of students in automation engineering to society. He is a global ambassador of Thought for Food and a member of Tech Task team from Inter-Agency Network for Education in Emergencies.

Global Engineering Education - II
1:00 – 2:40 pm (Friday, July 9) – Room 1

Session Chair: Dr. Vivek Soni, Bharatiya Vidya Bhavan's - Usha and Lakshmi Mittal Institute of Management, New Delhi, India

1:00 – 1:20 pm (Friday, July 9) – Room 1

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

Problem based learning

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.
Dr. Vivek Soni  
**Assistant Professor**  
Coordinator - Internal Quality Assurance Cell  
Coordinator Centre of Excellence (CoE) for Innovative Energy Solutions  
Bharatiya Vidyavatn's - Usha and Lakshmi Mittal Institute of Management  
New Delhi, India

Dr. Soni is a distinguished faculty of Operations and Decision Sciences at one of the well reputed educational system Bharatiya Vidyavatn’s Institute of Management New Delhi. Professor Soni has deep insights into management areas, is also certified Independent Director by Ministry of Corporate Affairs, Govt. of India and works as a consultant to wide aspects of energy (particularly wide dimensions of conventional and non-conventional forms of security and sustainability), energy–environment nexus, India’s strategic development on energy, role of sustainable technologies to reduce climate change, and technology-based climate change adaptation. More specifically, his research focuses on operations cum strategic management-based modeling approaches to assist development of India as data and knowledge driven society with an equitable and sustainable and qualitative education, energy and also with cleaner and safe environment. He is Accredited Management Teacher by AIMA, conveyor of Innovation Cell, and also Coordinator of Internal Quality Assurance Committee and Centre for Excellence in Innovative Energy Solutions; He teaches Entrepreneurship, Operations and Supply Chain Management related courses.

His innovative research intending to optimal solutions for objectives of several GDP dependent, both SME and service sectors working towards reforming India’s rural economy, specifically through academic deliveries are leverages by his deep industry rich experiences, all of which he gained with his wide gamut of experience with Government, Public Sector Units and Corporate, particularly on National Educational Programme for creating awareness for enhance energy efficiency under the National Action Plan for Climate Change. Renewable energy and energy efficiency, the politics of large-scale energy infrastructure, designing public policy to improve energy security and access to electricity, and building adaptive capacity to the consequences of climate change, all are of his ever green and ongoing research agenda to advocate to management stakeholders.

As a sample of reflection, his research on precise decision on energy has been depicted in several international and national journals/ magazine interviews, few of them include Fundamental and Innovations in Solar Energy, Sustainable Production and Consumption, Indian Journal of Public Administration, International Energy Sector Management, Transforming Government: People Process and Policy, Information Security and Management, and Journal of Advances in Management etc. His research also conferred upon Emerald Literati Network Awards for Excellence (2017) by Emerald Publishing, United Kingdom, under the category of Highly Commended Paper. His research work is seen in international conferences at The Institute of Energy Economics (IEEJ) Japan (2009), International Academy of Business, and Economies (IABE), USA (2012) and Canadian University of Dubai, (2014).

Dr. Hongyi Sun  
**Associate Professor**  
Dept. of Systems Engineering and Engineering Management (SEEM)  
City University of Hong Kong

Dr. SUN Hongyi holds a Bachelor degree in Computer Science from Harbin University of Science and Technology, a Master’s degree in Management Engineering from the Harbin Institute of Technology (HIT), both in China, and a Ph.D. in Technology Management from Aalborg University in Denmark. Dr. SUN received a Certificate of Pedagogy in Higher Education from Bergen University in Norway in 1997. He has taught at the Harbin Institute of Technology in China (1986-1990) and the University of Stavanger in Norway (1994-1998). Currently Dr. SUN is an Associate Professor in the Department of Systems Engineering and Engineering Management, City University of Hong Kong, where he also serves as programme leader and founding deputy programme leader of the Engineering Doctorate programme in Engineering Management, EngD (EM). His teaching and research areas include the management of technological innovation, manufacturing/operations strategy, quality management, and innovation education. Dr. SUN resides on the editorial board of the International Journal of Technological Innovation, Entrepreneurship and Technology Management, the International Journal of Learning and Changes and International Journal of Quality and Reliability Management. Dr. SUN has twice been the winner of the Teaching Excellence Award at the City University of Hong Kong and has won several other awards in innovation education His cross-disciplinary PIPE model and his learner-centered approach motivate students to actively acquire a broad range of new knowledge along the innovation process. Dr. SUN’s teaching methods, reported in academic conferences and journals, have become widely recognized. He has become a regular speaker on innovation education and innovation management.
Dr. Ismail Suardi Wekke  
Postgraduate Program  
Institut Agama Islam Negeri (IAIN) Sorong  
Sorong, West Papua 98417, Indonesia

ID 115: Indonesian Science and Technology Higher Education: A Portrait from Tanah Papua of YAPIS Experiences

Ismail Suardi Wekke is an Assistant Professor in the Postgraduate Program of Institut Agama Islam Negeri (IAIN) Sorong, West Papua, Indonesia. Moreover, he is part time lecture at postgraduate program Institut Bisnis dan keuangan Nitro Makassar, Indonesia. He earned his Ph.D. in the Faculty of Education in Universiti Kebangsaan Malaysia under Ford Foundation International Fellowship Program. He join STAIN Sorong since 2011 as tenure lecture. In addition, he chaired the last position as Director of Postgraduate Department (2020-2021). Join Universitas Amal Ilmiah YAPIS Wamena on 2016 as technical consultant of higher education. Since 2019 he is appointed as Adjunct Professor in The University College of Yayasan Pahang, Malaysia; March 2020 he joined Fatoni University, Thailand as Visiting Professor. Dr. Wekke expertise in higher education, halal industry, and ethics in supply chain. Among his community service as Director of Lembaga Perdana, director of Rumah Tahfidz, Baruga Insan Cita Gowa, Indonesia. Through Academia Sorong, he managed to extend higher education involvement for young lecture. A part of Southeast Asia Academic Mobility (SEAAM) establishment on 2016. He chair Forum Dosen Indonesia, Papua, since 2019. The organization transformed to Perkumpulan Dosen Indonesia Semesta (DIS). He is member of DIS, Indonesia; ICSEI.

2:20 – 2:40 pm (Friday, July 9) – Room 1

Dr. Chan Chee-Ming  
Professor and Director  
Centre for Graduate Studies  
Universiti Tun Hussein Onn Malaysia  
Batu Pahat, Johor, Malaysia

Chee-Ming Chan is a Professor with the Civil Engineering Technology Department, Faculty of Engineering Technology, Universiti Tun Hussein Onn Malaysia. She is a director at the Centre for Graduate Studies in the University. Her area of expertise includes geo-materials, engineering education and higher education improvement. More recently, Dr. Chan’s current work on dredged materials from Malaysian waters has gained momentum and support from the Ministry of Science, Technology and Innovation and Department of Marine, Malaysia. She is also involved in professional bodies, including the Society for Engineering Education Malaysia (SEEM), Malaysian Geosynthetics Society (MyIGS), Institution of Engineers Malaysia (IEM), Board of Engineers Malaysia (BEM), and is an education quality auditor for the Malaysian Qualification Agency (MQA). From 2009-11, Dr. Chan served as a Postdoctoral Research Fellow at the Port and Airport Research Institute (PARI), Japan.

2:20 – 2:40 pm (Friday, July 9) – Room 1

Dr. Muhammad Ikhsan Setiawan  
Vice Rector  
Narotama University  
Surabaya, Indonesia

Muhammad Ikhsan Setiawan is an assistant professor in the Civil Engineering Department at Narotama University, Surabaya, Indonesia. He has obtained his Bachelor in Civil Engineering from Merdeka University, Malang, Indonesia, and Master degrees in Civil Engineering from Universitas Indonesia, Depok, Indonesia and Doctor in Civil Engineering from Universitas Tarumanagara, Jakarta, Indonesia. He also as Vice Rector of Narotama University, Surabaya, Indonesia, and chairman of Worldconference.id, digital and online workshop, lecture forum, publication and conference since 2017, partnership with universities and industrial from Asia, Australia, Europe and Africa. He also Director and expert for several consulting company in Indonesia. Muhammad Ikhsan Setiawan is awardee Ministry of Education Grant from 2013 until now, He has published more than 100 journal papers, chapters in edited books, conference papers, most of them published in SCOPUS.


Global Engineering Education - III
3:00 – 4:40 pm (Friday, July 9) – Room 1
Session Chair: Fitra Lestari, UIN Sultan Syarif Kasim, Riau, Indonesia

3:00 – 3:20 pm (Friday, July 9) – Room 1
Dr. Prasenjit Chatterjee  
Dean (Research and Consultancy)  
MCKV Institute of Engineering  
Associate Professor and H.O.D, Mechanical Engineering  
Kolkata, West Bengal, India

**MARCOS: A new decision making method for sustainable supplier selection in healthcare industries**

Dr. Prasenjit Chatterjee is currently the Dean (Research and Consultancy) at MCKV Institute of Engineering, West Bengal, India. He has over 100 research papers in various international journals and peer reviewed conferences. He has received numerous awards including Best Track Paper Award, Outstanding Reviewer Award, Best Paper Award, Outstanding Researcher Award and University Gold Medal. He has been the Guest Editor of several special issues in different Scopus and Emerging Sources Citation Index (Clarivate Analytics) indexed journals. He has authored and edited several books on decision-making approaches, supply chain and sustainability modelling. He is the Lead Series Editor of Smart and Intelligent Computing in Engineering, Chapman and Hall / CRC Press. He is the Founder and Lead Series Editor of "Concise Introductions to AI and Data Science", Scrivener - Wiley; AAP Research Notes on Optimization and Decision Making Theories; and Frontiers of Mechanical and Industrial Engineering, Apple Academic Press, co-published with CRC Press, Taylor and Francis Group. Dr. Chatterjee is one of the developers of two multiple-criteria decision-making methods called Measurement of Alternatives and Ranking according to COMpromise Solution (MARCOS) and Ranking of Alternatives through Functional mapping of criterion sub-intervals into a Single Interval (RAFSI).

3:20 – 3:40 pm (Friday, July 9) – Room 1

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Dr. Alaa K. Ashmawy  
Chief Academic Officer  
The University of Balamand Dubai  
UAE

Dr. Alaa K. Ashmawy is an engineering professor and researcher, a licensed engineering consultant, and a global leader in higher education management. He joined The University of Balamand Dubai in 2021 as Chief Academic Officer, overseeing the university’s academic operations and offerings. He has over 30 years of professional experience in the US, Egypt, and the UAE, in higher education and engineering consulting. He was elected the 2020-2022 President of the International Federation of Engineering Education Societies (IFlEES) and is a member of the Executive Committee of the Global Engineering Deans Council (GEDC). He also serves as Special Advisor to ABET’s CEO, supporting the global engineering accrediting agency with its operations in the Middle East and North Africa. From 2006 to 2020, Dr. Ashmawy was Dean of the School of Engineering at the American University in Dubai (AUD), where he also served as Professor of Civil Engineering. He currently holds a research professorship at the University of New Mexico in Albuquerque, and previously held teaching and research faculty positions at the University of South Florida and Georgia Tech, as well as visiting appointments in Mexico and Egypt. He is the recipient of the 2020 IEM Society International’s Distinguished Educator Award, and the 2019 IEEE Education Society’s EDUCON Mentorious Service Award. His research in environmental geotechnics and micromechanics of granular materials has been published in leading journals and earned over 1000 citations. Dr. Ashmawy served as Program Evaluator for ABET’s Engineering Accreditation Commission, and as Congress Ambassador for the Dubai Convention Bureau. He is a member of numerous professional and civic organizations including ASEE, IEEE, ASCE, Sigma Xi, and the American Business Council of Dubai. He earned his Ph.D. and master’s degrees in civil engineering from Purdue University, and his bachelor’s degree with Honors and Distinction from Alexandria University.

3:40 – 4:00 pm (Friday, July 9) – Room 1

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Dr. Aidin Delgoshaei  
Postdoctoral Research  
Industrial Engineering Department  
Kharazmi University  
Tehran, Iran

Aidin Delgoshaei received a Ph.D. degree in Manufacturing Systems Engineering from University Putra Malaysia (UPM), Kuala Lumpur, Malaysia, in 2016 (University World Rank in 2019 is 86). In 2018, he accomplished postdoctoral research in Industrial Engineering at Kharazmi University. His main research interests are Supply Chain Management, Machine Learning, Heuristics and Meta-heuristics, Optimization, Simulation, and Modeling of Complex Systems.

4:00 – 4:20 pm (Friday, July 9) – Room 1

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Korhan Cengiz, PhD, SMIEEE  
Department Vice Chair  
Electrical-Electronics Engineering  
Trakya University  
Edirne, Turkey

Dr. Korhan Cengiz was born in Edirne, Turkey, in 1986. He received the BS degrees in Electronics and Communication Engineering from Kocaeli University and Business Administration from Anadolu University, Turkey in 2008 and 2009 respectively. He took his MS degree in Electronics and Communication Engineering from Namik Kemal University, Turkey in 2011, and the PhD degree in Electronics Engineering from Kadir Has University, Turkey in 2016. Since 2018, he has been an Assistant Professor and since 2021 he is the department vice chair of the Electrical-Electronics Engineering, Trakya University, Turkey. He is the author of over 40 articles including IEEE Internet of Things Journal, IEEE Access, Expert Systems with Applications, Knowledge Based Systems and
ACM Transactions on Sensor Networks, 4 international patents, 4 book chapters, and 1 book in Turkish. His research interests include wireless sensor networks, wireless communications, statistical signal processing, indoor positioning systems, internet of things, power electronics and 5G. He is Handling Editor of Microprocessors and Microsystems, Elsevier, Associate Editor of IET Electronics Letters, IET Networks and Editor of AEU - International Journal of Electronics and Communications, Elsevier. He has Guest Editorial Positions in IEEE Internet of Things Magazine and CMC-Computers, Materials & Continua. He serves several reviewer positions for IEEE Internet of Things Journal. IEEE Sensors Journal and IEEE Access. He serves several book editorial positions in IEEE, Springer, Elsevier, Wiley and CRC. He presented 20+ keynote talks in reputed IEEE and Springer Conferences about WSNs, IoT and 5G. He is Senior Member, IEEE and Professional Member of ACM. Dr. Cengiz’ s awards and honors include the Tubitak Priority Areas PhD Scholarship, the Kadir Has University PhD Student Scholarship, best presentation award in ICAT 2016 Conference and best paper award in ICAT 2018 Conference.

Fitra Lestari, BEng, MEng, PhD
Associate Professor
Head of Department
Industrial Engineering Department
UIN Sultan Syarif Kasim
Riau, Indonesia

ID 190 Outcome Based Education in Industrial Engineering Department: A case study in Indonesia

Fitra Lestari is currently an Associate Professor and Head of Industrial Engineering Department in Faculty Science and Technology, UIN Sultan Syarif Kasim, Riau-Indonesia. He gained his BEng and MEng in Industrial Engineering from Andalas University (Indonesia) and Universiti Teknologi Malaysia (UTM- Malaysia). Then, He has continued the Ph.D. project at UTM Malaysia in the field of Supply chain relationships in a downstream sector of the Palm Oil industry. He has published extensively including several refereed journal papers, conference papers, book chapters, and edited reference books associated with Supply Chain Management, Marketing, Logistic, and Performance Measurement. He serves as a reviewer, associate editor and editorial member for several national and international journals. He joins as a member of the International Association of Engineers (IAENG), and Industrial Engineering and Operations Management (IEOM-society), and member of Indonesian Industrial Engineering Higher Education Organizing Agency (BKSTI- Indonesia). His industrial and government collaborators include Small Medium Enterprises, Halal Supply Chain dan Performance Assessment and Institutional Strengthening of Oil Palm Supply Chains.

Global Engineering Education - IV

5:00 pm – 7:00 pm, Friday, July 9 – Room 1

Session Chair: Anjum Ali, Ex. Associate Professor of Computer Engineering, LUMS, Lahore, Pakistan

Dr. Mohammad Iqbal
Professor, Department of Industrial and Production Engineering
Shahjalal University of Science and Technology
Sylhet-3114, Bangladesh

ID 208 COVID-19 and Challenges for Industrial and Production Engineering Education in Bangladesh

Dr. Mohammad Iqbal is currently serving as a Professor at Shahjalal University of Science and Technology (SUST) under the Department of Industrial and Production. Professor Iqbal obtained his Bachelor of Technology (Mechanical) from Sri Venkateshwara University, College of Engineering, Tirupati, Andhra Pradesh, India and M.Sc. Engineering from the department of Industrial and Production Engineering, BUET, Dhaka in 1989 and 1993 respectively. He received his Ph.D. from Dublin City University, Dublin, Republic of Ireland in 2000. Professor Iqbal served as a visiting research scholar at Mary O’ Connor Process Safety Center, Texas A & M University, College Station, Texas, USA in the year 2016. He is the founder lecturer of the Department of Industrial and Production, SUST. He served as the Head of the department for 13 years and Dean of School of Applied Science and Technology for two years. He was the Head of Petroleum and Mineral Engineering Department Shahjalal University of Science and Technology (SUST), Sylhet, Bangladesh for one year. He has 30 years of industrial, research and teaching experiences. Professor Iqbal’s present research interest includes Virtual Reality, Ergonomics, Industrial safety and risk management, Supply chain management, Renewable energy and Production system analysis and Climate change and environment. He has more than 100 International publications in conference proceedings and peer review journals. He is a co-author of three engineering books namely Surveying, Engineering Materials and Industrial Health, Safety & Welfare. He is a life member of the Institution of Engineers, Bangladesh. He was the honorary secretary of the Institution of Engineers Bangladesh (IEB) Sylhet Centre, Sylhet, Bangladesh during 2018-2019. Dr. Iqbal was the Conference Chair of IEOM Society -Bangladesh Chapter held in December 2019. He was the Chair of IEOM Society - Bangladesh Chapter from March 2018 - February, 2020. Professor Iqbal conducted many training programs, seminars, workshops and symposiums at home and abroad. He has been involved in several research projects funded by the Ministry of Science and Technology, Bangladesh and SUST Research Center, Shahjalal University of Science and Technology, Sylhet, Bangladesh. Professor Iqbal received International and National Awards on research papers presented at different International Conferences home and abroad.

5:20 pm – 5:40 pm, Friday, July 9
Professor Amr Eltawil
Dean, School of Innovative Design Engineering
Professor, Industrial and Manufacturing Engineering Department
Egypt Japan University of Science and Technology
Alexandria, Egypt

Prof Amr Eltawil is the dean of the School of Innovative Design Engineering of the Egypt-Japan University of Science and Technology (E-JUST), Alexandria, Egypt. He is a professor of Industrial Engineering. He was the chairperson of the department of Industrial Engineering and Systems Management from 2011 to 2018. Prof Eltawil obtained his PhD from Alexandria University in 2003 through a channel program with University of Miami, Florida, USA.

The research interests of Prof Eltawil are in the fields of applied operations research and discrete event simulation. Areas of interest include among others supply chain design and management, production planning and scheduling, service systems planning and management especially container terminal operations and management decisions, energy systems optimization, healthcare applications and call centres, as well as transportation and logistics. Prof Eltawil authored more than 100 papers published in international impacted journals and conferences as well as book chapters. Prof Eltawil conducted tens of training programs for industry on different topics such as on Supply Chain Management, Data Analytics and Business Intelligence, Management Skills, Project Management, as well as Safety Management. Also, he is an Enterprise Resource Planning systems consultant and implementation expert.

Dr. Kazim Sari
Professor of Industrial Engineering
Vice Rector at Beykent University
Istanbul, Turkey

Kazim Sari earned his Ph.D. in Industrial Engineering from Istanbul Technical University, Istanbul, Turkey. He is a Professor of Industrial Engineering and Vice Rector at Beykent University, Istanbul, Turkey. His principle research areas include analysis and design of supply chains and logistics systems through optimization and simulation modeling. He is an active researcher on green supply chain management and multi-criteria decision-making methods. His studies have been published in various prestigious journals including European Journal of Operational Research, International Journal of Production Economics, Computers & Industrial Engineering, and International Journal of Physical Distribution and Logistics Management. He is a member of Production and Operations Management Society (POMS).

Dr. Sadaf Zahoor
Assistant Professor, Department of Industrial and Manufacturing Engineering
UET, Lahore Pakistan
and
Post-Doctoral Fellow, Department of Mechanical, Automotive, and Materials Engineering
Faculty of Engineering
University of Windsor, Windsor, Ontario, Canada

Green Machining

Dr. Sadaf Zahoor is an Assistant Professor in the Department of Industrial and Manufacturing Engineering Lahore Pakistan and a Post-Doctoral Fellow in the Department of Mechanical, Automotive, and Materials engineering, Faculty of Engineering University of Windsor, Windsor, Ontario, Canada. She earned B.S. in Industrial & Manufacturing Engineering from University of Engineering and Technology, Pakistan, Masters in Manufacturing Engineering from University of Engineering and Technology, Pakistan, PhD in Manufacturing Engineering from University of Engineering and Technology, Pakistan, she has published journal and conference papers. She has completed research projects with Packages Pvt. Ld. Pakistan, Millat Tractors Pakistan, Nestle Pakistan, Millat Equipment Ltd. Pakistan, PEL Orient Pakistan. Her research interests include sustainable manufacturing, reliability, scheduling, and lean. She is member of Pakistan Engineering Council.
Dr. Alina Shamsuddin  
Associate Professor (Technology Management)  
Faculty of Technology Management and Business  
Universiti Tun Hussein Onn Malaysia  
Batu Pahat, Johor, Malaysia

Title: Outcome Based Education (OBE) vs Value Based Education (VBE): A Way Forward

Alina Shamsuddin is currently an Associate Professor (Technology Management) with the Faculty of Technology Management and Business of Universiti Tun Hussein Onn Malaysia. Being a founding member of her faculty, Dr. Alina is not only knowledgeable on the immediate related fields of performance measurement, technology adoption and management, she is also an expert on educational quality assessment and assurance, with more than 10 years’ experience as an auditor for the Malaysian Quality Agency (MQA). Her research concerns are myriad but inter-related, encompassing higher education quality assurance and reforms, effective teaching and learning, as well as innovative technology adoption among Small Medium Enterprises (SMEs).

Anjum Ali, Ph.D.  
(Retd.) Professor of Electrical Engineering, FAST-NU, Lahore, Pakistan  
Ex. Associate Professor of Computer Engineering, LUMS, Lahore, Pakistan  
Ex. Professor of Computer Science and Engineering

Impact of COVID19 on Engineering Education in Pakistan

Dr. Anjum Ali completed his Ph.D. degree in August 1988 from the University of Alabama, Huntsville, Alabama, U.S.A. He has been teaching Electrical and Computer Engineering subjects since March 1978. His first teaching appointment, as a lecturer of Electrical Engineering, was at the University of Engineering and Technology (UET), Lahore, Pakistan, after winning gold medals in each of the last three years of his undergraduate engineering education. His teaching experience includes twelve years at Mercer University, Macon, Georgia, USA, and about nine years at three different universities in Saudi Arabia. At Mercer University (1988-1999), he was the lead faculty member who developed the Computer Engineering curriculum series, from the first undergraduate course in the area to various MS level electives.

He has also worked, as an associate professor, at the Lahore University of Management Sciences (LUMS), Lahore, Pakistan, from 1996 to 1998. During his stay at LUMS, he developed the computer engineering portion of the CS curriculum, and helped the university transition from the quarter system to the semester system. He served as the chairman of the Electronics Engineering and Instrumentation Department at the Hail Community College (now University of Hail), Hail, Saudi Arabia, from February 2000 to June 2002. During his stay there, he developed a four-year degree program in Electrical Engineering for the University of Hail.

Dr. Anjum Ali moved to Pakistan in July 2002, and joined Al-Khawarizmi Institute of Computer Science (KICS) at the University of Engineering and Technology, Lahore, as a professor in December 2002. During his stay at KICS, he initiated many research and development projects and won research grants. He has been a professor of Electrical Engineering at the National University of Computer and Emerging Sciences, (FAST-NU), Lahore, from May 2005 to May 2018. He was the Head of Electrical Engineering from March 2007 to September 2013, and during this time he developed multiple long-range policies and procedures for the university, which are still in place. He was also the Acting Director, Lahore Campus, at different occasions during his stay at FAST-NU, Lahore.

Dr. Anjum Ali was the convener of the National HEC Computer Engineering curriculum development committee. The HEC committee (NCRC) developed and finalized the 2009 HEC Computer Engineering Curriculum for all Pakistani universities. Dr. Anjum Ali has taught many EE, CE and CS courses and supervised numerous graduate as well as undergraduate students during his 40 years of teaching career. He has over 30 conference and journal publications. He is also the founding editor of the FAST-NU Research Journal. His areas of current research interest include embedded control systems and computer architecture.

After retirement from FAST-NU, Dr. Anjum Ali is leading a research and development company in Atlanta, GA, USA, as its president and CEO.
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Industry Solutions and Industry 4.0 - Distinguished Speakers

Saturday, July 10, 2021

Industry Solutions and Industry 4.0 - I
Saturday, July 10, 8:00 - 9:20 pm - Room 1
Session Chair: Dr. Kamal Aldeen Alzameli

8:00 am, Saturday, July 10

Tom Gaasenbeek
Founder and CEO
Nexas Networks Inc.
Hamilton, Ontario, Canada

Tom Gaasenbeek is the Founder and CEO of Nexas Networks Inc. and five other companies over the last 29 years, Nexas is a Canadian based high-tech Company that specializes in leading-edge manufacturing connectivity solutions for the shop floor.

Since co-founded Memex Electronics Inc. in 1992, Tom has been the visionary leader, and CTO dedicated to “internetworking” machine tools on the factory floor. Under Tom’s leadership, his engineering teams successfully developed technologies that open closed CNC control architectures (such as Fanuc), and he was installing his embedded IoT solutions in the marketplace already when the term was coined in 1998.

Starting as a member of the Open Modular Architecture Controls Group (OMAC) in 1998, Tom led the Global HMI development team from his public company e-Manufacturing Networks, which created the first machine tool XML schema for HMI, OEE and Lean Manufacturing applications in 1999 that is today called MTConnect. Tom has filed patents in the area of Energy Management and Dynamic Computer Assisted Machining (DCAM), authored numerous articles in trade journals Industry 4.0 and IIoT areas, and spoken at AI conferences as to its importance in the manufacturing sector.

Further, Tom has been a speaker about the adoption of AI and AR on the factory floor as well. In 2018, Mr. Gaasenbeek was named to the Top 50 in North America by Smart Industry Magazine for his co-founding of the widely adopted ANSI standard called “MTConnect”. Tom also authors a blog called “CIM Today” that promotes Computer Integrated Manufacturing, and it has had over 70,000 readers since it started.

Also since 2013, Tom has been the Executive Director of the Advanced Technology Think Tank which was founded in 1962. Tom works with McMaster Manufacturing Research Institute in Hamilton and Concordia University in Montreal at the moment.

8:20 am, Saturday, July 10

Dr. Ing, DBA Corrado Licata
Director of IOMES Group Limited
Hong Kong SAR, P.R. China
Member of AIST, ASME, FHKI, SEAISI

Corrado Licata has graduated in Mechanical Engineering, later obtained the Post-Graduate Diploma of Business Administration. He has run businesses and projects in Asia during past 25 years, in metals and mining industries.

He has worked as business development manager for Siemens divisions before setting up his own business, partnering with senior experts of heavy industry technology and management.

Corrado Licata has published papers at several conferences, lately in the field of digitalization. To name but a few last year the following work has been published at AISTech 2020: Corrado Licata, and T Kenneth M Nordell, and Sergio Nova “Online Prediction of Product Quality with IoT Technologies” AISTech 2020. The business reach of IOMES Group covers Asia, Africa and Middle East, for metals, cement and industrial water treatment.

He is married, with 2 kids. He enjoys and produces fine wines, he appreciates whiskies, he practices golf and sailing.

8:40 am, Saturday, July 10

Felix Veroya, PIE, AAE, MBB, CSM, DHum
Founder & CEO
Ask Lex PH Academy
Batangas, Philippines

Felix has a total of ten (10) years working experience in helping individuals and organizations to build and utilize competencies in Continuous Improvement, Innovation and Analytics across the fields of Academics, Logistics, Supply/Chain, Manufacturing, Training and Consulting for SMEs up to multinational corporations. He has proven skills relating to business administration, people management, research, statistical analysis, workshop facilitation and consulting. He was able to complete and coach projects utilizing proven tools and methodologies such as DMAIC (Six Sigma), SCORE (Lean), Design Thinking (Innovation) and self-initiated improvement frameworks on OEE/Capacity Improvement, Preventive Maintenance Time Reduction, Mistake Proofing, Quick Engineering Solutions, Idea Management, etc. He also published an international book entitled Introduction to Statistical
Process Control: A Problem-Solving Process Approach (ISBN: 978-87-403-1849-4) and Best Practices in Managing Virtual Teams under Bookboon Ltd. Under a Denmark based e-book publisher and an Amazon published book entitled Creativity Tools: Develop Creative Solutions to Problems and Opportunities (ISBN: 978-621-8114-38-8). He is a Professional Industrial Engineer, an Associate ASEAN Engineer, a Certified Lean/Kaizen Facilitator, a Certified Lean Six Sigma Master Black Belt, a Certified Design Sprint Master and a Chartered Business Advisor. Felix also leads international initiatives to the Philippines as Chairman of the International Association of Innovation Professionals (IAOIP) and National President / Country Manager for Association for Manufacturing Excellence (AME). He has been elected as a Board Director of the Lean (Operational Excellence) Division of the Institute of Industrial & Systems Engineers (IISE). During the Pandemic, he founded an online community for Filipino Industrial Engineers called PINOY IEs to help the community to have a platform to communicate and collaborate things about the profession. With all the initiatives he designed and deployed to the Industrial Engineering community here in the Philippines, he has been conferred with an Honorary Doctoral Degree (Honoris Causa) by the Asian Seminary Leadership and University of Oklahoma. Felix has published studies in Lean Six Sigma and OEE integration and other Lean Six Sigma related content in leading online communities like isixsigma.com. Recently, he won the Asia CEO Awards 2020 Young Leader of the Year and Entrepreneur of the Year Circle of Excellence Awards and this Q1 was awarded Outstanding Edupreneur of the Year by the World Education Leaders Summit and Awards and ASEAN Start Up Award Founder of the Year Finalist for the Philippines. He is now the Founder & CEO of Ask Lex PH Academy, a Philippine based, valued adding training and consulting firm specializing in Continuous Improvement, Innovation, Analytics and Industrial Engineering.

Dr. Dr. Kamal Aldeen Alzameli
Doctor of Engineering in Manufacturing Systems
Design and Release multimedia system engineer
Research and vehicle technology
Product devolvement center
OEM automotive

Dr. Alzameli has over twenty years of core engineering experience with an academic background of Engineering in Manufacturing Systems, Electrical and Computer Engineering. In addition, He has experienced extensive hands-on skills in Multimedia Design, vehicle network, vehicle diagnostics, wireless communication and vehicle power mode. Well-versed in philosophy of validation along with in-depth technical knowledge of telematic system. Moreover, He has a broad experience with customers with various suppliers around the world.

Dr. Ir. Lina Gozali
Lecturer
Department of Industrial Engineering
Tarumanagara University
Jakarta, Indonesia

Business Incubator - I.E. Technopreneurship

Lina Gozali is a lecturer of Industrial Engineering Department at Universitas Tarumanagara since 2006 and a freelance lecturer at Universitas Trisakti since 1995. She got her Bachelor degree at Trisakti University, Jakarta – Indonesia, then she graduated Master Degree at STIE IBII, Jakarta – Indonesia, and graduated her Ph.D at Universiti Teknologi Malaysia, Kuala Lumpur – Malaysia in 2018. Her apprentice college experience was in paper at Kertas Bekasi tegun, shoe at PT Jaya Harapan Barutama, automotive chain drive industry at Federal Superior Chain Manufacturing. She teaches Production System and Supply Chain Management Subjects and her Ph.D research about Indonesian Business Incubator. She actively writes for almost 40 publication since 2006 in Industrial Engineering research sector such as: Production Scheduling, Plant Lay Out, Maintenance, Line Balancing, Supply Chain Management, Production Planning and Inventory Control. She had been worked at PT. Astra Otoparts Tbk as International Business Development Department for 4 years, Citibank, N.A as customer service for 1 year , PT. Pandrol as assistant marketing manager for 1 year. PT. Texmaco as merchandiser for 3 years.

Dr. Rafiqul Islam
Sessional Academic, Western Sydney University
Board Member, Global Circle for Scientific, Technological and Management Research (GCSTMR)
Former Innovation and Technology Manager of Hussmann Oceania (Hussmann Australia Pty Ltd)
Sydney, Australia

Sustainability Entrepreneurship for Rural Bangladesh

Dr. Rafiqul Islam has over 22 years of professional experience in development and application of heating, cooling, ventilation and refrigeration, water and mechanical building services systems, energy efficiency, renewable energy, climate action, and sustainability for the built environment. He developed several innovative energy-efficient products among which six are patented as the sole inventor having refrigerated heat exchange technologies. I masteredmind technical concepts as well as completed R&D projects through to commercialization including the development of production process, compliance, marketing, field trial and sign off. Managed all patenting processes. Dr. Islam developed and patented an unglazed solar collector used as a heat source for heat pump
Dr. Md. Haider Ali Biswas
Professor, Department of Mathematics
Science Engineering and Technology School
Khulna University, Bangladesh

Optimization for Modeling Smart Manufacturing and Process Management in the Industry 4.0 Era

Dr. Md. Haider Ali Biswas is currently affiliated with Khulna University, Bangladesh as a Professor of Mathematics under Science Engineering and Technology School and he served as the Head of Mathematics Discipline from 2015 to 2018. Prof. Biswas obtained his B Sc (Honors) in Mathematics and M Sc in Applied Mathematics in the year 1993 and 1994 respectively from the University of Chittagong, Bangladesh, M Phil in Mathematics in the year 2008 from the University of Rajshahi, Bangladesh and PhD in Electrical and Computer Engineering from the University of Porto, Portugal in 2013. He has more than 22 years teaching and research experience in the graduate and post-graduate levels at different public universities in Bangladesh. He published Three Books, Seven Book Chapters and more than 200 research papers in the peer reviewed journals and international conferences. Prof. Biswas supervised (is supervising) more than 80 undergraduate students (Undergraduate Project Thesis), 30 MSc students (MSc Thesis and Project Thesis), 3 MPhil students and 5 PhD students at different public universities including Khulna University in Bangladesh. Prof. Biswas has worked at several R & D projects in home and abroad as PI and/or Researcher, particularly he conducted several research projects funded by Khulna University Research Cell, the Ministry of Science and Technology, Bangladesh, University Grants Commission of Bangladesh and The World Academy of Science (TWAS), Trieste, Italy. His present research interests include Dynamic Optimization, Optimal Control with Constraints, Nonsmooth Analysis, ODEs and Dynamical Systems, Mathematical Modeling, Inventory Model in Production Management, Mathematical Ecology, Environmental modeling and Climate change, Mathematical Biology and Biomedicine, Epidemiology of Infectious Diseases. Since the last ten years, Prof. Biswas has been working on the applications of mathematical models for designing and implementing those to real life problems, specially for the sustainable/optimal management under the changing environment due to global warming. He is the life/general members of several professional societies and/or research organizations like Bangladesh Mathematical Society (BMS), Asiatic Society of Bangladesh (ASB), Institute of Mathematics and its Applications (IMA), UK, European Mathematical Society (EMS) and Society for Mathematical Biology (SMB). Dr. Biswas is the founder member of Mathematical Forum Khulna and served as the General Secretary of the Forum in 2013-2015. Dr. Biswas organized several national and international seminars/workshops/conferences in home and abroad and he has been working as Editor/Member of editorial boards of several international peer-reviewed journals. Professor Biswas delivered more than 50 Talks as Keynote/Invited/Plenary/Panel Speaker at several international conferences/seminars/workshops in home and abroad. Professor Biswas was nominated as the Member of the Council of Asian Science Editors (CASE) for 2017-2020 and the Associate Member of the Organization for Women in Science for the Developing World (OWSD) since 2017. Recently, Professor Biswas has been elected as a Member of Executive Committee of Bangladesh Mathematical Society (BMS) for the year 2019-2021, and also nominated as the Associate Editor of the international journal GANIT- Journal of Bangladesh Mathematical Society (BMS) for the year 2019-2021. Dr. Biswas has been nominated as a Member of Executive Committee of the IEOM Society, Bangladesh Chapter and also serving as the Treasurer of the IEOM Society, Bangladesh Chapter. He is also serving as the Faculty Advisor of the IEOM Society Khulna University Chapter. Professor Biswas is presently serving as the President of Bangladesh Society for Mathematical Biology (BSMB) for the year 2019-2021.

2:00 - 2:20 pm, Saturday, July 10

Dr. Tawanda Mushiri
Senior Lecturer
Faculty of Engineering and the Built Environment
University of Zimbabwe
Harare, Zimbabwe

Tawanda Mushiri is a Senior Lecturer at the University of Zimbabwe in the Faculty of Engineering and the Built Environment. He is a Corporate Member of the Zimbabwe Institute of Engineers.

His research interests are in Artificial Intelligence and Robotics in Machines and the Health sector.

For his PhD, he did artificial intelligence for reducing machinery failure in industries and was obtained at the University of Johannesburg in 2017. He possesses a Masters degree in Manufacturing Systems and Operations Management, which he completed in 2012, and a BSc in Mechanical Engineering in 2008 all from the University of Zimbabwe. He is currently reading for an MSc in Medical Physics at National University of Science and Technology in Zimbabwe (2019 – 2021).

At the University of Zimbabwe, he is Coordinator of Biomedical Engineering in the Faculty of Medicine and Health Sciences, teaches Robotics, Artificial Intelligence related courses in the departments of Biomedical and Industrial and Mechatronics Engineering. He is also the coordinator of final year Undergraduate projects and Master of Science in Mechatronics and AI.
i. Redesign of an automated filling and capping machine case: for the University of Zimbabwe Sanitizer’s Plant
ii. Design of a fogging machine for use in spraying covid-19 virus: case for the University of Zimbabwe Sanitizers Plant (UZSP).
iii. Design of a sterile nasopharyngeal swab making machine: a case for the sanitizer production plant at the University of Zimbabwe

Dr. Mehran is a full-time Professor of Operations Management and Sustainability, also an Associate Researcher at COER, New Zealand. 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. Mehran has completed a 2 years Post-Doctoral Fellowship in the area of Innovation and Performance Excellence. He 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 Belgium and New Zealand. He has served as a Senior Assessor for the Dubai Quality Award (DQA) program since 2007. Mehran has also been actively involved in a number of academic–industrial projects and research in the United States, Canada, Australia, New Zealand, United Kingdom, Japan, Singapore, Malaysia, India, China and UAE. Mehran is also serving as the editorial board and leading guest editor of special issue for International Journal of Industrial Engineering and Operations Management (IJIEOM), Journal of Industrial Engineering & Management Systems (Belgium and New Zealand). Mehran is also serving as the editorial board and leading guest editor of special issue for International Journal of Hospitality Management (Elsevier) and as an Editorial Advisory Board for the International Journal of Contemporary Hospitality Management (IJIEOM). He is in the editorial board of Review of International Business and Strategy, Asia-Pacific Journal of Management among others.

Dr. Kayhan Tajeddini a Full professor of Strategic management and International management. He has accumulated a breadth of teaching, research and industry experience in the international environment. He earned his Ph.D. in Strategic Management/Marketing from Bradford School of Management, UK. Prior to joining Tokyo International University, he served as a faculty member at Lund University in Sweden, Ritsumeikan Asia Pacific University (APU) in Japan, Les Roches School of Hospitality Management and César Ritz Colleges in Switzerland and University of South Wales in the UK and research assistant at Bradford University in the UK. Kayhan serves as a Coordinating Editor of International Journal of Hospitality Management (Elsevier) and as an Editorial Advisory Board in International Journal of Contemporary Hospitality Management (Emeralds); Editor-in-Chief for the Middle East Journal of Management (Inderscience) and Iranian Journal of Management and Science (Indexed by Thomson Reuter). He is in the editorial board of Review of International Business and Strategy, Asia-Pacific Journal of Management Research and Innovation (Sage), Journal of Global Entrepreneurship Research (Springer) and former editorial board of Emerald Emerging Markets Case Studies. Kayhan Has published in Tourism Management, Long term Planning, International Journal of hospitality management, Supply Chain Management: An International Journal, Journal of Retailing and Consumer Services, Journal of Hospitality & Tourism Research, Journal of Hospitality and Tourism Administration among others.

Dr. Nader Ale Ebrahim holds a PhD in Technology Management from the Faculty of Engineering, University of Malaya. He has over 25 years of experience in the field of technology management and new product development in different companies. He was working as a visiting research fellow with Institute of Management and Research Services (IPPP), University of Malaya from 2013 to November 2017. Nader currently works as a “Research Visibility and Impact” freelancer
Dr. Muhammad Adil Khattak, MASME, MANS, MASNT, MPEC, MEA, MIAENG
Materials Engineer
HRL Technology Group Pty Ltd
Queensland, Australia

Research and Development (R&D) Projects and Industry 4.0

Dr. Adil Khattak is a Materials Engineer in HRL Technology Group Pty Ltd, Queensland, Australia with over 20 years of experience. He obtained his PhD in Mechanical-Materials Engineering from Universiti Teknologi Malaysia, MBA in Project Management and Master of Engineering in Power Engineering. Prior to his current position, he was worked as a Senior Lecturer in the School of Mechanical Engineering, Universiti Teknologi Malaysia. Dr. Adil has also worked as a Senior Consultant (Mechanical and Materials) in various industries. He has presented papers and delivered keynote addresses at various international and national conferences and seminars. He is a member of various Professional Bodies such as Engineers Australia, American Society for Mechanical Engineers and Institute of Materials Malaysia.

Industry Solutions and Industry 4.0 - IV
Saturday, July 10, 5:00 - 6:40 pm - Room 1

Industry Solutions and Industry 4.0 - IV: Panel
Panel Title: "Human-centered manufacturing in Industry 4.0"

Panel Chair:

Dr. Ing. Luca Gualtieri
Research Fellow
Industrial Engineering & Automation (IEA)
Smart Mini Factory Laboratory
Free University of Bozen-Bolzano
Faculty of Science and Technology
39100 Bozen, Bolzano (BZ), Italy

Luca Gualtieri holds a Ph.D. in industrial collaborative robotics at the Free University of Bozen-Bolzano and is a certified Occupational Health and Safety Manager and Trainer specialized on safety of machinery. He is working in the Smart Mini Factory lab as research fellow for the Industrial Engineering and Automation (IEA) group of the Faculty of Science and Technology, Free University of Bozen-Bolzano. He is responsible for research in the field of industrial collaborative robotics. In particular, he is focusing on human–robot interaction from the point of view of the operator’s occupational health and safety, ergonomics, and shared workplace organization. He participated in many European-funded project calls as well as collaborating with private companies in industrial projects.

5:00 - 5:10 pm, Saturday, July 10 - Panel Speaker I

Prof. Sergio Salimbeni
Professor and Researcher
Universidad del Salvador
Argentina

Title of the speech “Humans and work in the Digital Factory: Designing the work organization”

Sergio Salimbeni is an Electronic Engineer, with a MBA and PhD in Business Administration, and doctoral candidate for Industrial Engineering. He has more than 16 years as Professor and Researcher in Industrial Engineering and Management Sciences in the Faculty of Engineering and Management in the USAL, Argentina. His research focuses on Industry 4.0, both in the preparation of human resources and migration to digitalization in industries and services. He has more than 20 years working on Strategic Management, Quality Management, Business and Product Development, Project Management and Business Process Management.
Dr. Roberto A. Martins
Full Professor
Department of Industrial Engineering
Federal University of Sao Carlos
Sao Carlos, Brazil

Title of the speech “Performance Measurement Systems in Industry 4.0”

Dr. Roberto A. Martins is a Full Professor of the Department of Industrial Engineering at Federal University of Sao Carlos in Sao Carlos, Brazil. He earned his Ph.D. in Industrial Engineering at the University of Sao Paulo, Sao Paulo, Brazil, in 1999. He earned his M.S. in Industrial Engineering at the University of Sao Paulo, Sao Carlos, Brazil, in 1993. He received his B.S. in Industrial Engineering at the University of Sao Paulo, Sao Carlos, SP, Brazil, in 1990. Currently, he is Editor-in-Chief of leading Brazilian Industrial Engineering journals, Gestão & Produção. His research interests are supply chain performance measurement systems, performance measurement systems for sustainability, maturity models for performance measurement systems, and application of big data analytics in performance measurement systems for Industry 4.0.

Christina Schmidbauer, MSc
Human-Centered Cyber-Physical Production and Assembly Systems (HCCPPAS)
Institute of Management Science
TU Wien
Austria

Title of the speech “Democratization of Industrial Cobot Technology”

Christina Schmidbauer is a University Assistant in the field of Human-Centered Cyber-Physical Production and Assembly Systems (HCCPPAS) at the Institute of Management Science at TU Wien, Austria. As a PhD candidate in the field of “Mechanical Engineering – Economics”, she works on “Adaptive Task Sharing between Collaborative Robots (cobots) and Humans in Manufacturing” within the doctoral college “Trust Robots”. She teaches cobot technology in the Pilot Factory for Industry 4.0 at TU Wien and works on digital learning content on that topic. In 2021, she leads the activity “DeCoTe – Democratizing Cobot Technology” within EIT Manufacturing (funded by the European Union). She holds a Bachelor of Science in Engineering (BSc) in “Production and Management” and a Master of Science in Engineering (MSc) in “High Tech Manufacturing” and has several years of work experience in the automotive industry.

Dr. Federico Fraboni
Postdoctoral Researcher
University of Bologna, Italy

Title of the speech “Human Factors and cognitive ergonomics in industrial HRC: challenges and opportunities”.

Federico Fraboni holds a Ph.D. in Psychology at the University of Bologna and conducted extensive research on psychosocial characteristics related to Human Factors and human-technology interaction. He has a background in Work, Organisational, and Personnel Psychology. He participated in many European-funded research and innovation calls as well as collaborating with private companies in internally funded projects. He is currently a researcher in the Human Factors Risk and Safety research unit of the University of Bologna, focusing on human-technology interaction, human-robot collaboration, and safety in high-risk organizations. His main research interests are cognitive workload, technology acceptance, human-machine interfaces, and risky behaviours at work.

Dr. Loris Roveda
Researcher
Scuola Universitaria Professionale della Svizzera Italiana (SUPSI)
Istituto Dalle Molle di studi sull’Intelligenza Artificiale
Viganello, Switzerland

Title: Human-centered preferences-based optimization: an application to robotic teaching task.

Bio: Loris Roveda (Member, IEEE) received the M.Sc. and Ph.D. degrees in mechanical engineering from Politecnico di Milano, Milan, Italy, in 2011 and 2015, respectively. He is currently a Permanent Researcher with the Scuola Universitaria Professionale della Svizzera Italiana (SUPSI), Istituto Dalle Molle di studi sull’Intelligenza Artificiale (IDSIA), Università della Svizzera italiana (USI), Manno, Switzerland, working on AI and ML techniques applied to industrial robotics (such as robot control, human–robot collaboration, and dynamics identification). He has been involved in many national and European projects. He is now coordinating the EUROBENCH XSPINE project, and the EUROBENCH REMOTE_XSPINE project. He is also the P.I. of the H2020 CS2 ASSASSINN project.

Panel Discussion
Global Supply Chain and Logistics I
8:00 am – 9:30 am, Sunday, July 11, 2021
Session Chair: Dr. Au Yong Hui Nee, Universiti Tunku Abdul Rahman (UTAR), Kampar, Perak, Malaysia

8:00 am – 8:30 am, Sunday, July 11

Dr. Sunil Tiwari
Senior Research Fellow, Centre for Next Generation Logistics
Department of Industrial Systems Engineering & Management
National University of Singapore

**Automation of Warehouse Storage System**

Dr. Sunil Tiwari is a Senior Research Fellow in Centre for Next Generation Logistics, at the Department of Industrial Systems Engineering & Management, National University of Singapore, Singapore. Prior to this, he worked as a Research Fellow in the Department of Industrial Systems Engineering & Management and The Logistics Institute-Asia Pacific, National University of Singapore, Singapore, respectively. He also worked as an Assistant Professor (Adjunct) in the Department of Mathematics, Ambedkar University, Delhi. He received his Ph.D. Degree in Supply Chain & Inventory Management from the Department of Operational Research, the University of Delhi in 2016. His research interests are broadly in Supply Chain & Inventory Management, Healthcare Operations, Warehouse Operations Analysis & Optimization, E-commerce Logistics, Simulation-Based Optimization. He has published more than 50 research papers in top peer-reviewed journals like International Journal of Production Economics, International Journal of Production Research, Computers & Industrial Engineering, Annals of Operations Research, Journal of Cleaner Production, International Transactions in Operational Research, International Journal of Disaster Risk Reduction, European Journal of Industrial Engineering, and other journals. As per SciVal record, he ranked 13 & 26 in Asia-Pacific and Worldwide, respectively, in terms of the number of publications from 2017 to 2020 in the area of Supply Chain & Inventory Management.

8:30 am – 8:50 am, Sunday, July 11

Eng. Hemendra Nath Roy
Industrial and Production Engineer (IPE)
Supply Chain Manager, Gildan Bangladesh
Graduate Research Student of ISE, University of Regina, Sask. Canada
Lifetime Member of IEB

**Topic: Degree of success over barriers in Change Management: Key findings on Tertiary Teaching value chain transformation due to Covid-19 Pandemic in Bangladesh**

Hemendra Nath Roy, Graduate Research Student of Industrial System Engineering department in the University of Regina, Saskatchewan, Canada. He has completed his Bachelor of Industrial and Production Engineering degree from a Reputed engineering university of Bangladesh known as Khula University of Engineering and Technology (KUET) in the year of 2012. He started his professional journey as a Management Trainee with Gildan -G.A.B Limited, a vertically integrated Apparel manufacturing unit of a Canadian Global Brand, Gildan. It was a privilege for him to work directly with the global supply chain team while working in several positions in the past few years. In the last 9 years of professional experience, he has been proving himself as a diversified experienced person in Manufacturing & Supply chain dynamics and Operations Management to the extent of contingency planning, Considered Sourcing & Procurement, service process improvement, Product development and commercial management. Being an extensive user of Microsoft Excel, he has developed a wide range calculating and monitoring templates which are functioning successfully, i.e.: MRP tools, Planning & Monitoring tools, and commercial calculator within the organization. In addition, couple of Successful projects like, Raw-material Cost reduction, Vendor Managed JIT inventory controlling, Effective Vendor management Practices was being designed and accomplished by him while serving as a supply chain manager for Gildan Bangladesh operations. Other that professional sides he is very much devoted to the society he has been and contributing in multi aspects within the extents. He believes on People and continuous improvement to excel the performance.

8:50 am – 9:10 am, Sunday, July 11

Noman Husain
Founder, TRANSFORMability
Detroit, Michigan, USA

Noman Husain is the founder of TRANSFORMability, a business excellence, digital transformation and human capital development consulting company with a primary focus on operations turnaround. He is an experienced business leader, entrepreneur and change agent who galvanizes companies, communities and individuals to thrive upon disruption and achieve excellence. He believes, practices and teaches effectiveness and efficiency through his work to deliver end-to-end transformation.

Mr. Husain has over twenty years of industry and consulting experience in analyzing value chain, crafting business strategy, leveraging organizational resources and leading change for sustainable profits & growth in production & project organizations. His experience include strategy, product development, operations, quality and business transformation.
Among his experience in industrial automation, Mr. Husain worked as Head of Comau Academy and championed the development and growth of an innovative business unit, specializing in STEM and industry 4.0 based education programs including executive Masters, short courses and hands on workshops for companies, professionals and students. Before that he worked at Chrysler for 12 years with various positions including Process Improvement Manager. Mr. Husain received MSIE - Industrial Engineering and MSME - Mechanical Engineering from Wayne State University and Bachelor of Science in Mechanical Engineering from NED University of Engineering and Technology, Pakistan.

9:10 am – 9:30 am, Sunday, July 11

**Dr. Au Yong Hui Nee**  
Associate Professor, Faculty of Business and Finance  
Universiti Tunku Abdul Rahman (UTAR)  
Kampar, Perak, Malaysia

Associate Professor Dr. Au Yong Hui Nee holds a PhD degree from Universiti Sains Malaysia and a graduate of MA Economics from University of Tsukuba in Japan. She is an associate professor at the Faculty of Business and Finance, Universiti Tunku Abdul Rahman (UTAR). She was sponsored to attend Impact Evaluation Methods by World Bank Group and Women’s Director Programme by the Ministry of Women, Family and Community Development (K PWKM).

Dr. Au Yong was trained in commercial and investment banks. Prior to joining academia, she held managerial positions at Fortune 500 multinational corporations and a state agency. She has close to two decades of extensive experience managing information system, environment safety & health and supply chain & logistics and compliance risk management. She was a registered Safety and Health Officer, an IRCA Quality Lead Auditor and management representative of ISO9001, ISO14001 and OHSAS18001.

Furthermore, Dr. Au Yong has published over thirty articles in SSCI/Scopus-indexed journals. She serves as a chief editor of China's Belt and Road Initiative book published by World Scientific Publishing (Singapore), an editor for five international journals and a reviewer for fifteen SSCI/SCIE-indexed international journals. She has completed research and consulting projects for local and international clients (Japan and Pakistan). She has received over USD 150,000 of research grants. She is a recipient of Malaysian Institute of Management Tun Razak Youth Leadership Award, Japanese Government Monbukagakusho (MEXT) Scholarship, excellent participant award of BIOMA (Biogas Institute of Ministry of Agriculture and Rural Affairs China), best oral presentation award and best paper awards in South Korea and United Kingdom.

**Global Supply Chain and Logistics II**  
1:00 - 2:40 pm, Sunday, July 11  
Session Chair: Dr. Aldy Gunawan, Singapore Management University, Singapore

1:00 – 1:20 pm, Sunday, July 11

**Dr. Zulqurnain Ali**  
Post Doctorate Researcher  
University of Science and Technology of China, Hefei, Anhui, China  
Assistant Professor of Business Administration (Big data and Supply Chain)  
Department of Economics & Business Administration  
University of Education, Lahore, Pakistan

Dr. Zulqurnain Ali is Assistant Professor of Business Administration (Supply Chain) at Department of Economics & Business Administration, University of Education, Lahore. Dr. Ali has joined as Post Doctorate Fellow of Business Administration at School of Management, University of Science and Technology of China. He is currently serving as Academic Editor (social sciences) at PLOS one. Currently, Dr. Ali is writing a Book on Supply Chain Management: An Emerging Market Perspective, Professional trainer, Consultant and HEC (Pakistan) PhD Approved Supervisor. Dr. Ali earned his PhD from School of Management, University of Science and Technology of China, Master from Quaid-I-Azam University Islamabad, and Bachelor from Hailey College of Commerce, University of the Punjab, Lahore. He also served as Customer Services Manager at United Bank Limited. Dr. Ali research interest includes industry 4.0, big data in supply chain management and E-commerce, Career Development, Career Shocks, Knowledge Hiding, and Succession Planning. Dr. Ali has published his scientific work in several top tier journals such as The International Journal of Logistics Management, Journal of Enterprises Information Management, Business Process Management and many more. Moreover, Dr. Ali having more than ten years Academics and Professional experience, and also member of editorial boards in local and international level journals.

1:20 – 1:40 pm, Sunday, July 11

**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 business models and data analytics. His primary expertise lies in the use of data to drive business strategy and developing solutions and products driven by data. Due to his long history of engagements with various companies, he has developed deep expertise in business turnaround strategies, business model innovation and digitalisation strategies. He is amongst the small group of 40 Expert Singapore Certified Management Consultants accredited by TUV SUD.
Murphy has held a variety of positions in both industry and academia. He has held senior management positions in data science, technology and operations as well as board member positions in several local technology start-ups. His works in the area of data refinery and analytics has also won recognition from industry practitioners. He also lectures for SMU Academy, University of Stirling and University of Northampton in the ASEAN region. His work in developing experiential learning case studies has won him multiple teaching awards. He has extensive consulting experience with banks, financial institutions, real estate companies, logistics companies, airport, sea ports and governments. He is also involved in research grant collaboration with Singapore University of Social Science, Nanyang Technological University and Singapore Management University in the area of Technology and Communication Studies.

Murphy holds a Doctorate of Professional Studies in Business Analytics from Middlesex University London, Masters of Science in Finance from University College Dublin and Bachelor of Science in Statistics from National University of Singapore. He also holds a Diploma of Economics from University of London, Post Graduate Certificate in Business Research from Heriot-Watt University and Advanced Certificate in Learning and Performance from Institute of Adult Learning.

1:40 – 2:00 pm, Sunday, July 11

**Dr. Aldy Gunawan**  
Assistant Professor of Computer Science (Practice)  
School of Computing and Information Systems  
Singapore Management University  
Singapore

Aldy Gunawan is an Assistant Professor of Computer Science (Practice) at the Singapore Management University. He received his Ph.D degree in Industrial and Systems Engineering. His main research interests include operations research, algorithm design, and data analytics that relate to metaheuristics, algorithm configuration, design of experiments, combinatorial optimization, and automated planning/scheduling.

His research outputs have been published at top Operations Research conferences and journals in Operations Research such as European Journal of Operational Research, Computers and Operations Research, Computers and Industrial Engineering, and Applied Soft Computing. He has been serving as a committee member of the Operational Research Society of Singapore.

2:00 – 2:20 pm, Sunday, July 11

**Moses Jeremiah Barasa Kabeyi**  
Doctor of Engineering Scholar in Industrial Engineering  
Department of Industrial Engineering  
Durban University of Technology  
South Africa

Currently pursuing his D.Eng. in Industrial Engineering in the Department of Industrial Engineering at Durban University of Technology. He earned his B.Eng. degree in Production Engineering and MSC in Mechanical and Production Engineering (Energy) from Moi University, in Kenya, MA in Project planning and Management from University of Nairobi, in Kenya and Diplomas in Project management, Business management and NGO management respectively from The Kenya Institute of Management. He has worked in various factories including sugar manufacturing at Nzoia Sugar Company Ltd, pulp and paper at Pan African Paper Mills EA Ltd, and power generation at the Kenya Electricity Generating Company (KenGen) in Kenya, in an industrial career of 16 years before moving into teaching. He has taught in various universities in Kenya including University of Nairobi, Technical University of Mombasa, and Egerton University and currently on study leave. His research interests are power generation, fuels and combustion, internal combustion engines and project management and sustainability. He is registered with the Engineers Board of Kenya (EBK) and Institution of Engineers of Kenya (IEK) and has published several conference and journal papers.

2:20 – 2:40 pm, Sunday, July 11

**Farhan Mirza**  
President  
BAFF Consultants Inc.  
Orange County, California, United States

Farhan Mirza specializes in building corporate value, sustainability and profitability through synergy and continuous improvement. Farhan has almost 25 years of manufacturing industry experience, spanning across automotive, renewable energy, industrial and consumer goods. Farhan has lived and worked in 7 countries spanning across North America, Europe, Middle East and Asia Pacific. He is a subject matter expert on applying the synergies across regions, supplier footprint optimization, executing world class costing and sourcing strategies and building cohesive, empowered multinational, multicultural teams globally. Presently core areas of focus are entrepreneurship, operational due diligence, supply chain optimization, investment in innovative businesses and mentoring startups.

Farhan holds a Bachelor of Mechanical Engineering Degree from Osmania University, Hyderabad, India and Master of Science Degree in Industrial Engineering from Wayne State University, Detroit, Michigan, USA. He is also Six Sigma Black Belt certified and a Shainin Certified RED X Journeyman.
Sagit Kedem-Yemini
Logistics Department
Sapir Academic College
Sderot, 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-related 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 her to 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).

Dr. Zulkifli M. Udin
Associate Professor
Universiti Utara Malaysia
Malaysia

ACADEMIC QUALIFICATION
2004, PhD Supply Chain Technology, University Of Bradford, United Kingdom
1996, Masters Pengurusan, Universiti Utara Malaysia
1994, Bachelor Degree TEKNOLOGI MAKLUMAT, Universiti Utara Malaysia
1990, Diploma KOMPUTER SAINS, INSTITUT TEKNOLOGI MARA, Institut Teknologi MARA

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AREA OF EXPERTISE
Supply Chain Technology
Knowledge-based Systems
ICT Management

Shaik Abdul Khadar
Chief Executive Officer
Data Labs India Solutions Pvt Ltd.
INDIA

Presentation Topics:
How Supply Chain Control Tower helps to achieve supply chain excellence
Achieve manufacturing excellence through Manufacturing Execution System

Shaik is CEO of Data Labs India for five years and helping organizations for supply chain digital transformation to achieve excellence in supply chain, logistics, and manufacturing operations. Shaik is an expert in strategy execution, supply chain management, performance management, and organizational transformation with 26 years of experience. Shaik helps business leaders in assessment and design of strategic initiatives in building global supply chain capabilities, supply chain planning & optimization, operational excellence, enterprise performance management, business analytics, and ERP. Shaik has extensive experience in agri-food construction, poultry, process and discrete manufacturing, automotive, mining, government, shipping, rail and road transportation, and retail. Shaik has worked in variety of Supply Chain Management roles which include Vice President, Planning at Arasco Feed, President at Fruition Management Consulting and others. Selected clients include Arasco (KSA), Almarai (KSA), Bisha Mining (Eritrea), Grand Cereals (Nigeria), Alkraft (India), United Feed Manufacturing Co. (KSA), Lamtuf (India) etc. Key certifications include CPIM from APICS, PMP from PMI, Lean Six Sigma Black Belt, ERP Certified, EPM Certified, Balanced Scorecard Certified Graduate. Shaik holds Master of Engineering from Anna University, India and Bachelor of Engineering from Osmania University, India
4:00 pm – 4:20 pm, Sunday, July 11

**Muthana Alsaeiq**
Supply Chain Consultant
Business Associates
Riyadh, Saudi Arabia

4:20 pm – 4:40 pm, Sunday, July 11

**Dr. Yaşanur Kayikci**
Associate Professor of Industrial Engineering
Head of Industrial Engineering Program
Founding Head of Department of Industrial Engineering
Türkisch-Deutsche Universität
Istanbul, Türkei

ID 219 Holistic Design Framework of Digital Supply Chain
Yaşanur Kayikci, Turkish-German University

Dr. Yaşanur Kayikci is a Consultant and an Associate Professor of Industrial Engineering for the working area of Logistics and Technology Management. She is currently serving as a Head of Industrial Engineering Program at the Turkish-German University in Istanbul, Turkey. Her research interests include information science, new technologies and innovations (AI, Industry 4.0, Internet of Things, blockchain, and big data), logistics information systems and technology management, digital supply chain, platform models and strategies, industrial digital transformation, collaborative business models for on-demand transport services and smart circular economy.

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Global Supply Chain and Logistics IV
5:00 - 7:00 pm, Sunday, July 11
Session Chair: Dr. Edly Ramly, Malaysia

5:00 pm – 5:20 pm, Sunday, July 11

**Dr. Xiaohui Chen**
Professor
Director of Council of Mechanical Engineering and Vehicle School
Chongqing University
China

ID 224 Supply Chain Innovation for Changing Business Environment: Empirical Evidence from PRC
Xiaohui Chen, An Youjun, Zhang Zhiyao, and Su Peng, Chongqing University, China

Chen xiaohui, Female, Professor, Ph.d, Post-Doctoral of ME(Management Science ), Doctoral tutor of ME and IE, Director of Council of Mechanical Engineering and Vehicle School of Chongqing University, China. Senior Membership of China Mechanical Engineering Society, IIE (Institution of Industrial Engineering) Membership, Evaluation Expert of National Natural Science Foundation of China, Reviewers of several international academic journals. She worked as Visiting Scholar at Intelligent Maintenance System (IMS) Center of UWM, USA. Visited the universities of Belgium, Australia, England, New Zealand and Singapore for academic exchange.


As the director and main researcher, she has finished more than 50 research projects. Such as“Major National Projects”, “Key project of the National Natural Science Foundation of China”, “Younger program of National Natural Science Foundation of China”, “863 High Technical projects ”, “Natural Science Foundation of Chongqing Science Commission”, “Social Science Project of Chongqing Science Commission” and some joint projects for Enterprises, for instance, Intel Co. Ltd., Foxconn, Chongqing Machinere & Electronics Holding ( Group ), Chongqing High - Tech Group and so on.

She has Award the Second Prize for Advancement in Science and Technology of Chongqing, Third Award for Social Science of Chongqing, Applied and public one inventive patent.

Her research area is Industrial Engineering, Logistic Engineering and Supply Chain Management, Simulation and Optimization of Manufacturing Engineering. With responsibility as Doctor Supervisor in the field of Management Science and Engineering, and Postgraduate Advisor of IE. Lectured for “Advanced Operation Research (PHD); Logistics and Supply Chain Management (Foreign Student)E-business(MS), Engineering Economics(MS). Logistics System Engineering (Bilingual, BS )”. Award the “First class Award for Excellence Teaching Fruits of Chongqing University”, “Excellent Teacher of Tang’s foundation”, “Excellent Youth Teacher of Chongqing University”.

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During these years, she lead her research group to consult many famous big companies, such as Intelcompany, Foxconn Group, Chongqing Machinery and Electronics Group, Chongqing Iron & Steel Group, Chongqing Construction Engineering Group, Chongqing Polycomp International Group, to make the strategy planning, enterprise supply chain management innovation, logistics system optimization design and the IE training.

5:20 pm – 5:40 pm, Sunday, July 11

Dr. Olasumbo Makinde
Lecturer and Postgraduate Research Coordinator
Department of Operations Management
Tshwane University of Technology
Pretoria West, South Africa

Olasumbo Makinde is a Lecturer and Postgraduate Research Coordinator at the department of Operations Management, Tshwane University of Technology, South Africa as well as the Assistant Niche Area Leader for Operations and Engineering Management in the same institution. In addition to this, Olasumbo is also holding the position of a Training Program Development Manager for the Department of Home Affairs (DHA), South Africa. He earned B.Eng. in Mining Engineering from Federal University of Technology, Akure, Nigeria, and Masters and Doctoral degrees from Tshwane University of Technology, Pretoria West, South Africa. He is co-designer of the South Africa locally patented Reconfigurable Vibrating Screen machine as well as the decision support systems that could be used to effectively maintain this machine when used in the mining and food processing industries. He has authored several conference and journal publications on various engineering topics. Dr Olasumbo has completed research projects with Afrisam (Pty) Ltd, Nissan (Pty) Ltd and Gibela Rail (Pty) Ltd. His research interests include reconfigurable manufacturing system design, maintenance and management, modelling and simulation, agent-based systems, inventory management, lean and ergonomics. He is a member of SAFIE and reviewer for a number of local and international recognized journals.

5:40 pm – 6:00 pm, Sunday, July 11

Dr. Vivek Soni
Assistant Professor
Coordinator - Internal Quality Assurance Cell
Coordinator Centre of Excellence (CoE) for Innovative Energy Solutions
Bharatiya Vidya Bhavan’s - Usha and Lakshmi Mittal Institute of Management
New Delhi, India

Dr. Soni is a distinguished faculty of Operations and Decision Sciences at one of the well reputed educational system Bharatiya Vidya Bhavan’s Institute of Management New Delhi. Professor Soni has deep insights into management areas, is also certified Independent Director by Ministry of Corporate Affairs, Govt. of India and works as a consultant to wide aspects of energy (particularly wide dimensions of conventional and non-conventional forms of security and sustainability), energy–environment nexus, India’s strategic development on energy, role of sustainable technologies to reduce climate change, and technology-based climate change adaptation. More specifically, his research focuses on operations cum strategic management-based modeling approaches to assist development of India as data and knowledge driven society with an equitable and sustainable and qualitative education, energy and also with cleaner and safe environment. He is Accredited Management Teacher by AIMA, conveyor of Innovation Cell, and also Coordinator of Internal Quality Assurance Committee and Centre for Excellence in Innovative Energy Solutions; He teaches Entrepreneurship, Operations and Supply Chain Management related courses.

His innovative research intending to optimal solutions for objectives of several GDP dependent, both SME and service sectors working towards reforming India’s rural economy, specifically through academic deliveries are leverages by his deep industry rich experiences, all of which he gained with his wide gamut of experience with Government, Public Sector Units and Corporate, particularly on National Educational Programme for creating awareness for enhance energy efficiency under the National Action Plan for Climate Change. Renewable energy and energy efficiency, the politics of large-scale energy infrastructure, designing public policy to improve energy security and access to electricity, and building adaptive capacity to the consequences of climate change, all are of his ever green and ongoing research agenda to advocate to management stakeholders.

As a sample of reflection, his research on precise decision on energy has been depicted in several international and national journals/ magazine interviews, few of them include Fundamental and Innovations in Solar Energy, Sustainable Production and Consumption, Indian Journal of Public Administration, International Energy Sector Management, Transforming Government: People Process and Policy, Information Security and Management, and Journal of Advances in Management etc. His research also conferred upon Emerald Literati Network Awards for Excellence (2017) by Emerald Publishing, United Kingdom, under the category of Highly Commended Paper. His research work is seen in international conferences at The Institute of Energy Economics (IEEJ) Japan (2009), International Academy of Business, and Economies (IABE), USA (2012) and Canadian University of Dubai, (2014).

6:00 pm – 6:20 pm, Sunday, July 11

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.

6:20 pm – 6:40 pm, Sunday, July 11

Md Tanbiruj Jaman  
Supply Chain Planner  
PepsiCo  
Wichita, Kansas, USA

Md Jaman is a Supply Chain Planner at PepsiCo where he oversees the supply chain, from raw to finished goods, of the innovation and current products producing in Kansas, United States. He proactively engaged with cross-functional teams to achieve a streamlined supply chain. Prior to PepsiCo, he worked at AGCO Corporation, a leading ag global industry, where he was a key player to launch global new products as well as migrating to digital manufacturing environment by launching the Teamcenter Product Lifecycle Management system and introducing new change management and electronic work instruction to eliminate paper prints. He also worked at CNH Industrial and Linde Bangladesh Limited. He has an advanced degree in industrial engineering from Wichita State University, USA. He has Six Sigma Green Belt Certification from the American Society for Quality (ASQ).

6:40 pm – 7:00 pm, Sunday, July 11

Teresa Verduzco-Garza  
Researcher and Professor  
Industrial and Systems Engineering Department  
Engineering School  
University of Monterrey  
Mexico

Topic: Synergy and Collaboration in Supply Chains

Dr. Teresa Verduzco-Garza, is a professor and researcher for the Engineering School in University of Monterrey, Mexico (UDEM) at the Industrial and Systems Engineering department. Her research and experience focuses on Clusters for competitiveness, Logistics clusters, Supply Chain Management, Operations Management, Supply Chain Strategy. Received her Ph.D. Degree in Management for Supply Chains from the UANL Autonomous University in Nuevo Leon, Mexico during 2018. Developed a combined research stay at Orkestra Institute for Cluster and Competitiveness and Deusto University in Basque Country, Spain during 2019.

She has previous experience in the industry, holding positions as project manager, account manager, Corporate Strategic Planning, Geographic Expansion among others, in important worldwide recognized enterprises. Nowadays, she works with important clusters in Mexico, developing supply chain and Logistics Synergies (Co-Loading) projects for competitiveness in the Automotive cluster (CLAUT) and Electrical Appliances cluster (CLELAC), as well as strategic planning initiatives, supply chain network mapping for Agrifood cluster (Agro Alim).

Teresa has published his works in journals with national and international scientific circulation, has participated as a speaker in important conferences in forums such as IEOM, SISE, IISE, ASEM, TCI Global Conferences in countries such as the USA, Colombia, South Korea, Canada, the Netherlands, France and other European countries. Additionally, she is an active member of IEOM, APICS and TCI Network International Competitiveness Institute, as well as of the Harvard Business School network of the Institute for Strategy and Competitiveness.
## Parallel Sessions

### Friday, July 9, 2021

<table>
<thead>
<tr>
<th>Time</th>
<th>Room 1</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td>Global Engineering Education I</td>
<td>High School STEM Competition</td>
<td>Reliability Project Competition</td>
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<tr>
<td>9:30 am</td>
<td><strong>Conference Opening</strong> – Room 1</td>
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<tr>
<td>9:45 am</td>
<td><strong>Welcome Address:</strong> Dr. Jihong Yan, Professor in Industrial Engineering, Deputy Dean of School of Mechatronics Engineering, Head of Intelligent Manufacturing Research Team, Harbin Institute of Technology, Harbin, China – Room 1</td>
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<tr>
<td>10:00 am</td>
<td><strong>Keynote I (Opening Keynote):</strong> Dr. Zhenyu (James) Kong, Professor, Grado Department of Industrial and Systems Engineering, Virginia Tech, Blacksburg, Virginia, United States – Room 1</td>
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<tr>
<td>10:40 am</td>
<td><strong>Keynote II:</strong> Dr. Cyrille Breard, Principal Noise Engineering Lead, Shanghai Aircraft Design &amp; Research Institute – COMAC, Shanghai, China – Room 1</td>
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<td>11:20 am</td>
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<tr>
<td>11:30 am</td>
<td><strong>Keynote III:</strong> Dr. NG Szu Hui, Associate Professor and Acting Head, Department of Industrial Systems Engineering and Management, National University of Singapore - Room 1</td>
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<tr>
<td>12:10 pm</td>
<td><strong>Keynote IV:</strong> Vincent Guo Xin, Director of Business Development, Siemens Digital Industries Software, Shanghai, China</td>
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<tr>
<td>12:50 pm</td>
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<tr>
<td>1:00 pm</td>
<td>Global Engineering Education II</td>
<td>Undergraduate Paper Competition</td>
<td>Simulation Competition</td>
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<tr>
<td>3:00 pm</td>
<td>Global Engineering Education III</td>
<td>Graduate Student Paper Competition</td>
<td>Industry 4.0 and Sustainability</td>
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<tr>
<td>5:00 pm</td>
<td>Global Engineering Education IV</td>
<td>Mechanical Systems and Performances</td>
<td>Business Management</td>
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### Saturday, July 10, 2021

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<th>Time</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td>Industry Solutions and Industry 4.0 I</td>
<td>Competitions</td>
<td>Reliability Project Competition</td>
</tr>
<tr>
<td>9:45 am</td>
<td><strong>Welcome Address:</strong> – Room 1</td>
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<tr>
<td>10:00 am</td>
<td><strong>Keynote V:</strong> Dr. Saso Krstovski, MBB, Lean Manufacturing Coach / Six Sigma Master Black Belt, Van Dyke Transmission Plant, Ford Motor Company, Michigan, USA – Room 1</td>
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<tr>
<td>10:40 am</td>
<td><strong>Keynote VI:</strong> Prof. Ruth Banomyong, Dean, Thammasat Business School, Thammasat University, Thailand – Room 1</td>
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<td>11:20 am</td>
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<tr>
<td>11:30 am</td>
<td><strong>Keynote VII:</strong> Dr. Xinlong Wang, Development Leader, JANPOS company, Ningbo, China - Room 1</td>
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<tr>
<td>12:10 pm</td>
<td><strong>Keynote VIII:</strong> Prof. George Q. Huang, Chair Professor of Industrial and Systems Engineering, Head of Department, Director of HKU-ZIRI Laboratory of Physical Internet, Department of Industrial and Manufacturing Systems Engineering, The University of Hong Kong, Hong Kong, China– Room 1</td>
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<tr>
<td>12:50 pm</td>
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<tr>
<td>1:00 pm</td>
<td>Industry Solutions and Industry 4.0 II</td>
<td>Engineering Education</td>
<td>Project Management</td>
</tr>
<tr>
<td>3:00 pm</td>
<td>Industry Solutions and Industry 4.0 III</td>
<td>Operations Excellence</td>
<td>Manufacturing and Learning</td>
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<tr>
<td>5:00 pm</td>
<td>Industry Solutions and Industry 4.0 IV -</td>
<td>Service Systems and Service Management</td>
<td>Knowledge Management</td>
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### Sunday, July 11, 2021

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<tbody>
<tr>
<td>8:00 am</td>
<td>Global Supply Chain and Logistics I</td>
<td>Operations Management</td>
<td>Business Management</td>
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<tr>
<td>9:30 am</td>
<td><strong>Conference Chair Remarks:</strong> – Room 1</td>
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<tr>
<td>9:40 am</td>
<td><strong>Keynote IX:</strong> Jd Marhevko, Vice President of Quality, ZF Division U. Electronics &amp; ADAS, ZF Group, Farmington Hills, MI, USA</td>
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<tr>
<td>10:20 am</td>
<td><strong>Keynote X:</strong> Dr. Sri Talluri, Hoagland-Metzier Endowed Professor in Purchasing and SCM, Department of Supply Chain Management, Broad College of Business, Michigan State University, East Lansing, MI, USA – Room 1</td>
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<tr>
<td>11:00 am</td>
<td><strong>Keynote XI:</strong> Dr. Lu ZHEN, Dean and Professor, School of Management, Shanghai University, Shanghai, China - Room 1</td>
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<td>11:40 am</td>
<td><strong>Keynote XII:</strong> Dr. Pengxiang Wang, Associate Professor, School of Energy Science and Engineering, Harbin Institute of Technology, China – Room 1</td>
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<tr>
<td>12:20 pm</td>
<td><strong>Keynote XII:</strong> Dr. Yuchun Xu, Professor and Chair in Manufacturing, School of Engineering and Applied Science, Aston Institute of Urban Technology and the Environment (ASTUTE), Aston University, Birmingham, United Kingdom– Room 1</td>
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<tr>
<td>1:00 pm</td>
<td>Global Supply Chain and Logistics II</td>
<td>Healthcare Systems</td>
<td>Logistics and Supply Chain</td>
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<tr>
<td>3:00 pm</td>
<td>Global Supply Chain and Logistics III</td>
<td>Engineering Management</td>
<td>Data Analytics</td>
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<tr>
<td>5:00 pm</td>
<td>Global Supply Chain and Logistics IV</td>
<td>Sustainability and Green Systems</td>
<td>Design and Analysis</td>
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<tr>
<td>8:00 pm</td>
<td><strong>8:00 – 10:00 pm, Conference Awards Ceremony (Virtual)</strong> – Room 1</td>
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</tbody>
</table>
## July 9, 2021 (Friday) - Session: 8:00 – 9:45 am

### 8:00 – 9:45, FRIDAY, July 9

**Global Engineering Education I**

Room 1

Session Chair: Dr. Gürsel A. Süer, Ohio University, Athens, OH, USA

### 8:00 – 9:45, FRIDAY, July 9

**High School STEM Competition**

Room 2

Session Chair: Professor Don Reimer, LTU, MI, USA

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### Global Engineering Education I - Room 1

**8:00 – 8:20 am**

**Satish Vadlamani**
Sr. Mgr. Supply Chain Analytics
Kenco Group
Chattanooga, Tennessee, USA

**8:20 – 8:40 am**

**Dr. Kalaivani Chellappan**
Senior Lecturer
Faculty of Engineering & Built Environment
Universiti Kebangsaan Malaysia
Bangi, Selangor, Malaysia

**8:40 – 9:00 am**

**Dr. Gürsel A. Süer**
Professor of ISE Department
Ohio University
Athens, OH, USA

### High School STEM Competition - Room 2

**8:00 – 8:25 am**

**ID 55** Utilizing Various Statistical Models on Time Series Temperature Data
Mason Chen, Stanford Online High School, San Jose, CA 95131, USA
Charles Chen, STEAMS, San Jose, CA 95131

**8:25 – 8:45 am**

**ID 56** Studying the Antarctic Glacier Melting Rate through Time Series Decomposition and Smoothing
Mason Chen, Stanford Online High School, San Jose, CA 95131, USA
Charles Chen, STEAMS, San Jose, CA 95131

**8:45 – 9:00 am**

**ID 113** Statistical Analysis and Trends of COVID-19 Data of various countries
Takiyah Ali, Michigan Islamic Academy, Ann Arbor, Michigan, USA

**9:00 – 9:15 am**

**ID 120** Compare Python Script and JMP JSL Script on the Housing Price Regression Models
Jason Chu and Mason Chen, Cupertino CA, United States

**9:15 – 9:30 am**

**ID 166** Correlation between Playing an Instrument and Grades in Middle and High School Students in the U.S
April Wen, Stanford Online High School, San Jose, CA, USA

**9:30 – 9:45 am**

**ID 191** Current Ability of Stock Market Indices to Track the Technology Sector
Tanish Kumar, Stanford Online High School, Redwood City, CA 94063, USA
IEOM Harbin, China Conference  PARALLEL SESSIONS -  July 9-11, 2021

8:00 – 9:45, FRIDAY, July 9  Reliability Project Competition  Room 3
Session Chair: Dr. Niel Murray, Adjunct Faculty, LTU, Michigan, USA and Manager at ZF

July 8, Thursday, 8:00 - 8:15 pm (Michigan Time)
Cory Williams, Industrial Engineering Program, Lawrence Technological University, Southfield, Michigan, USA
ID 167  Utilizing reliability models with MTTF & MTTR in a manufacturing system to develop robust Preventive Maintenance

July 8, Thursday, 8:15 - 8:30 pm
Kevin McCabe, Industrial Engineering Program, Lawrence Technological University, Southfield, Michigan, USA
ID 168  Using weibull distribution for predictive generator maintenance

July 8, Thursday, 8:30 - 8:45 pm (Michigan Time)
Moayad Alhabobi, MS in Engineering Technology, LTU
ID 169  A reliability study of electric vehicle battery

July 8, Thursday, 8:45 - 9:00 pm (Michigan Time)
Sanu Kuriakose Thomas, MSIE Program, LTU
ID 170  Improvement of the Reliability using PFMEA in an Automotive Industry

July 8, Thursday, 9:00 - 9:15 pm (Michigan Time)
Zhe Zhu, MSME, LTU
ID 184  Automotive Reliability - A Case Study

July 8, Thursday, 9:15 - 9:30 pm (Michigan Time)
Andrew Arnott
ID 171  Title

July 9, 2021 (Friday) - Session: 10:00 am – 12:50 pm

Keynote Speakers

9:30 – 9:45 am, July 9, Friday – Conference Opening – Room 1

9:45 – 10:00 am, July 9, Friday - Welcome Address – Room 1

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

10:00 – 10:40 am, July 9, Friday - Keynote I (Opening Keynote) – Room 1

Dr. Zhenyu (James) Kong
Professor
Grado Department of Industrial and Systems Engineering
Virginia Tech, Blacksburg, Virginia, United States

10:40 – 11:20 am, July 9, Friday - Keynote II – Room 1

Dr. Cyrille Breard
Principal Noise Engineering Lead
Shanghai Aircraft Design & Research Institute – COMAC
Shanghai, China

11:20 am - 11:30 am: Break
11:30 – 12:10, July 9, Friday - **Keynote III** – Room 1

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

12:10 – 12:50, July 9, Friday - **Keynote IV** – Room 1

**Dr. Vincent Guo Xin**
Director of Business Development
Siemens Digital Industries Software
Shanghai, China

**ID 057 Advanced Robotics and Artificial Intelligence with the Digital Twin of Production for the Factory of the Future**
Xin GUO, Strategy and Portfolio Management, Digital Manufacturing Segment, Siemens Digital Industries Software, Shanghai, 200082, P. R. China

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**July 9, 2021 (Friday) - Session: 1:00 – 2:45 pm**

1:00 – 2:45, FRIDAY, July 9  **Global Engineering Education II**  Room 1
Session Chair: Dr. Vivek Soni, Bharatiya Vidya Bhavan's - Usha and Lakshmi Mittal Institute of Management, New Delhi, India

1:00 – 1:20 pm (Friday, July 9) – Room 1

**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

**Problem based learning**

1:20 – 1:40 pm (Friday, July 9) – Room 1

**Dr. Vivek Soni**
Assistant Professor
Coordinator - Internal Quality Assurance Cell
Coordinator Centre of Excellence (CoE) for Innovative Energy Solutions
Bharatiya Vidya Bhavan's - Usha and Lakshmi Mittal Institute of Management
New Delhi, India

1:40 – 2:00 pm (Friday, July 9) – Room 1

**Dr. Muhammad Ikhsan Setiawan**
Vice Rector
Narotama University
Surabaya, Indonesia

2:00 – 2:20 pm (Friday, July 9) – Room 1

**Dr. Hongyi Sun**
Associate Professor
Dept. of Systems Engineering and Engineering Management (SEEM)
City University of Hong Kong
China
ID 194  Youth Entrepreneurship Policy for Engineering Education in Hong Kong
Hongyi Sun, Department of Advanced Design and Systems Engineering, City University of Hong Kong, Hong Kong, China
2:20 – 2:40 pm (Friday, July 9) – Room 1

Dr. Ismail Suardi Wekke
Postgraduate Program
Institut Agama Islam Negeri (IAIN) Sorong
Sorong, West Papua 98417, Indonesia
ID #: Indonesian Science and Technology Higher Education: A Portrait from Tanah Papua of YAPIS Experiences
2:40 – 3:00 pm (Friday, July 9) – Room 1

Dr. Chan Chee-Ming
Professor and Director
Centre for Graduate Studies
Universiti Tun Hussein Onn Malaysia
Batu Pahat, Johor, Malaysia

1:00 – 2:45, FRIDAY, July 9  Undergraduate Student Paper Competition  Room 2
Session Chair: Dr. Chaozhong Guo, Associate Professor, School of Mechatronics Engineering, Harbin Institute of Technology, China

ID 119  An Evaluation of Transport and Logistics Clusters in Oman
Hana Osama Nabil Ahmed, Middle East College, Muscat, Oman
Asad Ullah, Assistant Professor in Business Administration, Middle East College, Muscat, Oman

ID 132  Auto Coupling Program of MATLAB and CAD for Line Start Permanent Magnet Motor Design
Minh Dinh Bui, Electrical Engineering Department, Hanoi University of Science and Technology, Hanoi, Vietnam, Vietnam

ID 133  Torque Improvement of Interior Permanent Magnet Synchronous Motor for E scooter
Minh Dinh Bui, Electrical Engineering Department, Hanoi University of Science and Technology, Hanoi, Vietnam

ID 149  Ergonomic Intervention Studies and Analysis of Postures in Jawar Roti Making units in North Karnataka
Pooja Aloorkar, Student, Department of Industrial & Production Engineering, P.D.A.College of Engineering, Kalaburagi, India
Qutubuddin S.M., Associate Professor, Department of Industrial & Production Engineering, P.D.A.College of Engineering, Kalaburagi, India
Someshwari Agre, Smita Shabadi and Rudreshwar Hiremath, Students, Department of Industrial & Production Engineering, P.D.A.College of Engineering, Kalaburagi, India

ID 156  Study of the Impact of PLA Color on the Material Properties of FDM Printed Part
Md. Sabit Shahriar Haque, Abdul Quader, Sadman Yasin, Farzana Hoq and M. Azizur Rahman, Department of Mechanical & Production Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh

1:00 – 2:45, FRIDAY, July 9  Competitions  Room 3
Session Chair: Dr. Hayder Zghair

Simulation Competition
ID 141  Profit Maximization by Varying Inter arrival time, entities per arrival and batch size Using Arena Simulation Software and OptQuest Optimization Tool: A Pharmaceutical Case
Faisal Mahmud and Galib An Noor Amio, Department of Industrial & Production Engineering, Bangladesh University of Engineering and Technology Dhaka-1000, Bangladesh

Graduate Student Paper Competition
ID 097  Design of an Integrated Production Planning and Control System to Control Work in Process (WIP)
Samuel Trinata Winnyarto, Department of Technology Management, Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia
Niniet Indah Arvitrida, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia

ID 210  Smart Village based on Agriculture Data Analytic for Regional Development in Indonesia: Situational Analysis
Eneng Tita Tosida, Department of Computer Science, IPB University, Indonesia and Department of Computer Science, Universitas Pakuan, Indonesia
Yeni Herdiyeni, Department of Computer Science, IPB University, Indonesia
Marimin, Department of Industrial Technology, IPB University, Indonesia
Suprehatin, Department of Agrbusiness, IPB University, Indonesia
July 9, 2021 (Friday) - Session: 3:00 – 4:45 pm

3:00 – 4:45, FRIDAY       Global Engineering Education III       Room 1
Session Chair: Fitra Lestari, UIN Sultan Syarif Kasim, Riau, Indonesia

3:00 pm, Friday, July 9

Dr. Prasenjit Chatterjee
Dean (Research and Consultancy)
MCKV Institute of Engineering
Associate Professor and H.O.D., Mechanical Engineering
Kolkata, West Bengal, India

President, Institution's Innovation Council (IIC)
Chairman, NISP Committee
Chairman, Research Committee
Chairman, Publication Committee

MARCOS: A new decision making method for sustainable supplier selection in healthcare industries

3:20 pm, Friday, July 9

Dr. Alaa K. Ashmawy
Chief Academic Officer
The University of Balamand Dubai
UAE

3:40 pm, Friday, July 9

Dr. Aidin Delgoshaei
Postdoctoral Research
Industrial Engineering Department
Kharazmi University
Tehran, Iran

4:00 pm, Friday, July 9

Korhan Cengiz, PhD, SMIEEE
Department Vice Chair
Electrical-Electronics Engineering
Trakya University
Edirne, Turkey

Handling Editor, Microprocessors and Microsystems, Elsevier
Associate Editor, IET Electronics Letters
Editor, AEÜ International Journal of Electronics and Communications, Elsevier

4:20 pm, Friday, July 9

Fitra Lestari, BEng, MEng, PhD
Associate Professor
Head of Department
Industrial Engineering Department
UIN Sultan Syarif Kasim
Riau, Indonesia

ID 190  Outcome Based Education in Industrial Engineering Department: A case study in Indonesia

3:00 – 4:45, FRIDAY       Business Management       Room 2
Session Chair: Federico Fraboni, Alma Mater Studiorum – University of Bologna, Bologna, Italy

ID 209  Factors Influencing the Incidence of Low Birth Weight During the Pandemic at General Hospital West Pasaman
Detty Afriyanti S and Lisrawati Harahap, Midwifery Study Program Applied Bachelor Program and Midwifery Profession Faculty Of Health Fort De Kock University Bukittinggi City West Sumatra Indonesia
ID 212  Green Supply Chain Management of Manufacturing Sector in Malaysia – Modeling and Analysis  
Roshna Ahmed Shipa, Ph.D. Student in Technology Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat 86400, Johor, Malaysia  
Abdul Taib Bon, Professor of Technology Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat 86400, Johor, Malaysia  
Ahad Ali, Associate Professor and Director of Industrial Engineering, Lawrence Technological University, Southfield, Michigan, MI 48075, USA

ID 213  Issues and Challenges of Aviation Maintenance Repair and Overhaul in Southeast Asia  
Basri Fathiriza 1, Adibah Shuib 1, Wan Mazlina Wan Mohamed 1  
1 Malaysia Institute of Transportation (MITRANS), Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia

ID 214  Review of Engineer Professionalism in Construction Project Failure: A Case Toll Road Project in Indonesia  
Andri Irfan Rifai, Bagus P. Anugerah, Desiervius V. Indrayana, and Iman Purwoto, Engineering Professional Program, Universitas Indonesia, Depok, Indonesia

ID 215  Analysis of Impact Covid-19 on Parking Characteristics in the Office Area: Case of Jakarta City  
Andri Irfan Rifai, Faculty of Civil Engineering and Planning, University of International Batam, Indonesia  
Danang Listia Nugroho, Muhammad Isradi and Amar Muftiadin, Faculty of Civil Engineering and Planning, University of Mercu Buana Jakarta, Indonesia

ID 216  Human Factors and Cognitive Ergonomics in Industrial HRC: Challenges and Opportunities  
Federico Fraboni, Human Factors, Risk and Safety research Unit, Alma Mater Studiorum – University of Bologna, Bologna, 40122, Italy

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FREE PAPERS

ID 008  Marketing and Sustainability: The Concept of Green Awareness of Consumer  
Thorino Johansen, Calvin Pratama, Burton Affandi, Dzulfiqar Fakhri Faisal, Christopher Jeremy and Doni Purnama Alamsyah, Bina Nusantara University, Indonesia

ID 009  Sustainable Performance: Understanding the Concept of Consumer Trust to E-Commerce  
Manuel Moses, Bintang Mahardhika, Gregorius Geraldi Haryanto, Helena Martina Halim, Nina Widyastari, Doni Purnama Alamsyah, Bina Nusantara University, Indonesia

ID 010  Investigation of Comparability Over Time of Data and Its Impact on Credit Rating Model  
Jiali Du, Graduate School of Symbiotic Systems Sciences and Technology, Fukushima University, Fukushima city, Japan  
Yanwen Dong, Cluster of Science and Technology, Fukushima University, Fukushima city, Japan

ID 061  Multi-person Detection and Identification Method in Complex Industrial Sites under Intelligent Manufacturing  
Jihong Yan, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin 150001, China  
Chao Chen, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin 150001, China

ID 062  3D display of virtual assembly of large mechanical structure based on Virtual Reality Technology  
Lizhong Zhan, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin, China  
Li Zhang, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin, China

ID 153  The Acceptance of IoT: Study on Consumer Behavior  
Bryan Nicholas, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia  
Francesco Antonio Leendert Kiwol, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia  
Doni Purnama Alamsyah, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia

ID 155  Exploring Barriers to Mitigate Disruptions in Sustainable Supply Chain of Pharmaceutical Industry During COVID-19  
Shah Murtoza Morshed, Naimur Rahman Chowdhury, M.A.Tanvir Bhuiyan, Md. Abdur Rahim, Mohammad Sarwar Morshed, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology (AUST), Dhaka, Bangladesh
July 9, 2021 (Friday) - Session: 5:00 – 6:30 pm

5:00 – 6:45, FRIDAY    Global Engineering Education IV    Room 1
Session Chair: Anjum Ali, (Retd.) Professor of Electrical Engineering, FAST-NU, Lahore, Pakistan

5:00 pm – 5:20 pm, Friday, July 9

Dr. Mohammad Iqbal
Professor
Department of Industrial and Production Engineering
Shahjalal University of Science and Technology
Sylhet-3114, Bangladesh

ID 208 COVID-19 and Challenges for Industrial and Production Engineering Education in Bangladesh

5:20 pm – 5:40 pm, Friday, July 9

Professor Amr Eltawil
Dean, School of Innovative Design Engineering
Professor, Industrial and Manufacturing Engineering Department
Egypt Japan University of Science and Technology
Alexandria, Egypt

5:40 pm – 6:00 pm, Friday, July 9

Dr. Kazim Sari
Professor of Industrial Engineering
Vice Rector at Beykent University
Istanbul, Turkey

6:00 pm – 6:20 pm, Friday, July 9

Dr. Sadaf Zahoor
Assistant Professor
Department of Industrial and Manufacturing Engineering
UET, Lahore Pakistan
and
Post-Doctoral Fellow
Department of Mechanical, Automotive, and Materials Engineering
Faculty of Engineering
University of Windsor
Windsor, Ontario, Canada

Green Machining

6:20 pm – 6:40 pm, Friday, July 9

Dr. Alina Shamsuddin
Associate Professor (Technology Management)
Faculty of Technology Management and Business
Universiti Tun Hussein Onn Malaysia
Batu Pahat, Johor, Malaysia

6:40 pm – 7:00 pm, Friday, July 9

Anjum Ali, Ph.D.
(Retd.) Professor of Electrical Engineering, FAST-NU, Lahore, Pakistan
Ex. Associate Professor of Computer Engineering, LUMS, Lahore, Pakistan
Ex. Professor of Computer Science and Engineering

Impact of COVID19 on Engineering Education in Pakistan
ID 068  The Correlation of Motivation on Achievement in English Language Among Selected Secondary Schools Students in Seremban, Malaysia
Zahuren binti Abdul Kadir and Zulida binti Abdul Kadir, Universiti Tun Hussein Onn Malaysia, Parit Raja, Johor Darul Takzim, Malaysia

ID 069  The Variation of Energy Consumption and Economic Impact in Regards of Location, Building and System Type in UAE Air Conditioning Industry
Jaser Al-Hawarneh, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, United Arab Emirates
Mohammed Kamil, Department of Mechanical Engineering, University of Sharjah, Sharjah, United Arab Emirates
Hamad Rashid, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, United Arab Emirates

ID 052  Analysis of Electronic Procurement of Goods and Services in Central Mamuju Regency Government
Muhammad Aswar, Ansar, and Hendra Gunawan, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Lina Marlina, Politeknik Triguna, Tasikmalaya, Indonesia

ID 053  The Influence of Mother's Knowledge, Attitude and Education Level on Maternal Toddler Participation in Integrated Service Post (Posyandu) Activities
Sitti Nahajerah, and Ansar, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Ekafadly Jusuf, Fakultas Ekonomi dan Bisnis, Universitas Hasanuddin, Makassar, Indonesia
Saidn Aulfikar Bin Tahir, Universitas Iqra Buru, Maluku, Indonesia

ID 054  The Effect of Training and Competence, Work Discipline on Improving the Performance of State Civil Apparatus at the Regional Secretariat of Jeneponto Regency
Heriadi, Buyung Romadhoni, and Gunawan Bata Ilyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Gustika Sandra, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia

ID 064  Analysis of Vertical Vibration Absorbing Characteristics of Electric Vehicles with Tuned Mass Dampers
Chaozhong Guo, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin 150001, China
Luyu Li, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin 150001, China

ID 024  Increased Organizational Commitment with Facilities and Professionalism and Its Effect on The Performance of Extension Officers in Jeneponto Regency
Sukmawati, Gunawan Bata Ilyas, and Misbahuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 025  The Influence of Democratic Leadership Style on Organizational Culture and Motivation and Its Effects on Employee Performance in the District Government of Bantaeng
Yusrina Restuwati, Andi Rasyid Pananrangi, and Baharuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 26  The Effect of Rewards on Personnel Performance Through Training and Professionalism at the South Sulawesi Police Mobile Brigade Unit
Ramli, Hasmin Tamsah, and Nasaruddin Nawawi, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Masriadi Patu, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 122  Sentiment Analysis of Students' Reviews on Online Courses: A Transfer Learning Method
Thinh Vu Ngoc, and Mai Nguyen Thi, School of Economics and Management, Hanoi University of Science and Technology, Hanoi, Vietnam
Hang Nguyen Thi, School of Applied Mathematics and Informatics, Hanoi University of Science and Technology, Hanoi, Vietnam

ID 103  Failure modes, effects, and diagnostic analysis (FMEDA) of ESD Valves in oil and gas industry
Omar Bensmaine, Rachid Nail-Said and Fatih Zidani, Laboratory of Research in Industrial Prevention, Institute of Health & Safety, University of Chahid Mostepha Ben Boulden Batna 2, Batna, Algeria

ID 192  The Influence Of Work Motivation On The Level Of Employee Performance Achievement At Pt Pln (Persero) Upp Jjbt 1 Bandung
Siska Maydiana NurVita Sari, M Yahya Arwiyah, Mahir Pradana, and Tri Indra Wijaksana, Business Administration, Faculty of Communication and Business, Telkom University, Bandung, Indonesia

ID 202  Comparison Analysis of Accounting Information Systems Effectiveness at Sumber Indah Aluminium Store
Putri Astria and Tri Indra Wijaksana, Prodi Administrasi Bisnis, Fakultas Komunikasi dan Bisnis, Universitas Telkom, Bandung, Indonesia
July 10, 2021 (Saturday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, SATURDAY Industry 4.0 / Industry Solutions I Room 1
Session Chair: Dr. Kamal Aldeen Alzameli

8:00 am – 8:20 am, Saturday, July 10

Tom Gaasenbeek
Founder and CEO
Nexas Networks Inc.
Hamilton, Ontario, Canada

8:20 am – 8:40 am, Saturday, July 10

Corrado Licata
Co-Founder, IOMES Group
Senior Advisor, LMDB GROUP Hong Kong
Shanghai, China

8:40 am – 9:00 am, Saturday, July 10

Felix Veroya, PIE, AAE, MBB, CSM, DHum
Founder & CEO
Ask Lex PH Academy
Batangas, Philippines

9:00 am – 9:20 am, Saturday, July 10

Dr. Kamal Aldeen Alzameli
Doctor of Engineering in Manufacturing Systems
Design and Release multimedia system engineer
Research and vehicle technology
Product development center
OEM automotive

8:00 – 9:45 am, SATURDAY Masters Thesis Competition Room 2
Session Chair; Dr. Hayder Zghair, Penn State Berks

ID 139 Torque Harmonic Analysis of SRM 24/16 with Rotor Pole Shoe
Bui Dinh, HUST, Hanoi, Vietnam, Vietnam

ID 218 The Effect of Knowledge Management Orientation on the Performance of Container Shipping Firms: Supply Chain Integration as a Mediator
Soon Shu Bee, Universiti Sains Malaysia, Penang, Malaysia

8:00 – 9:45 am, SATURDAY Reliability Project Competition Room 3
Session Chair: Dr. Niel Murray, Adjunct Faculty, LTU, Michigan, USA and Manager at ZF

July 9, Friday, 8:00 - 8:15 pm (Michigan Time)
Vishesh Joshi, MSIE, LTU
ID 178 Improvement in vehicle reliability using warranty data analysis

July 9, Friday, 8:15 - 8:30 pm (Michigan Time)
Logan Dewan, MSET, LTU
ID 179 Industrial Display Value-add Assembly Manufacturing using Failure Mode Effects Analysis

July 9, Friday, 8:30 - 8:45 pm (Michigan Time)
Hadi Hidou, BSMMET, LTU
ID 180 Reducing Accidents in Autonomous Vehicles (AV)

July 9, Friday, 8:45 - 9:00 pm (Michigan Time)
Nykea Anderson, MSIE, LTU
ID 181 Title –
July 9, Friday, 8:00 - 9:15 pm (Michigan Time)
Rahul Yadav Ragam, MSIE, LTU
ID 182  Reliability and Maintainability using Six Sigma approach

July 9, Friday, 9:15 - 9:30 pm (Michigan Time)
Zachary Johnson, BSIE, LTU
ID 183  TPM strategy implementation in an automotive production line

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**July 10, 2021 (Saturday) - Session: 10:00 am – 12:50 pm**

**Keynote Speakers**

9:45 – 10:00, July 10, Saturday - **Welcome Address** – Room 1

10:00 – 10:40 am, July 10, Saturday - **Keynote V** – Room 1

**Dr. Saso Krstovski, MBB**
Lean Manufacturing Coach / Six Sigma Master Black Belt
Van Dyke Transmission Plant
Ford Motor Company, Michigan, USA

10:40 – 11:20 am, July 10, Saturday - **Keynote VI** – Room 1

**Prof. George Q. Huang**
Chair Professor of Industrial and Systems Engineering
Head of Department,
Director of HKU-ZIRI Laboratory of Physical Internet
Department of Industrial and Manufacturing Systems Engineering
The University of Hong Kong
Hong Kong, China

11:20 – 11:30 – Break

11:30 am – 12:10 pm, July 10, Saturday - **Keynote VII** – Room 1

**Dr. Xinlong Wang**
Development Leader
JANPOS Company
Ningbo, China

12:10 – 12:50 July 10, Saturday - **Keynote VIII** – Room 1

**Prof. Ruth Banomyong**
Dean
Thammasat Business School
Thammasat University
### July 10, 2021 (Saturday) - Session: 1:00 – 2:45 pm

#### Industry 4.0 / Industry Solutions II

<table>
<thead>
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<th>Speaker</th>
<th>Title</th>
<th>Institution</th>
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<tr>
<td>1:00 pm – 1:20 pm</td>
<td>Dr. Ir. Lina Gozali</td>
<td>Business Incubator - I.E. Technopreneurship</td>
<td>Tarumanagara University, Jakarta, Indonesia</td>
</tr>
<tr>
<td>1:20 pm – 1:40 pm</td>
<td>Dr. Rafiqul Islam</td>
<td>Sustainability Entrepreneurship for Rural Bangladesh</td>
<td>Western Sydney University</td>
</tr>
<tr>
<td>2:00 pm – 2:20 pm</td>
<td>Dr. Tawanda Mushiri</td>
<td>Optimization for Modeling Smart Manufacturing and Process Management in the Industry 4.0 Era</td>
<td>University of Zimbabwe</td>
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</table>

**Session Chair:** Dr. Ir. Lina Gozali, Tarumanagara University, Jakarta, Indonesia

### Engineering Education

<table>
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<th>Time</th>
<th>Speaker</th>
<th>Title</th>
<th>Institution</th>
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<tbody>
<tr>
<td>1:00 pm – 1:20 pm</td>
<td>Ishak Runi</td>
<td>The Principles of Organizational Citizenship Behavior in Disaster Mitigation</td>
<td>Universitas Andi Djemma, Palopo, Indonesia</td>
</tr>
<tr>
<td>2:00 pm – 2:20 pm</td>
<td>Marsus Suti, Amruddin Akbar Fisu, Ahmad Ali Hakam Dani, Apriyanto Apriyanto, Andi Dewi Angreyani and Amiul Amruh</td>
<td>Work Accident Risk at Hospital Construction Environment</td>
<td>Universitas Andi Djemma, Palopo, Indonesia</td>
</tr>
</tbody>
</table>
ID 136  Effectiveness of Academic Information System Quality on Improving Student Satisfaction in Higher Education Institutions
Bakhtiar Abbas, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Indonesia, Kendari, Indonesia
Ismail Suardi Wekke, Institut Agama Islam Negeri (IAIN) Sorong, Indonesia, West Papua, Indonesia
Muhammad Nuzul Qadri, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Indonesia, Kendari, Indonesia
Abdul Razak, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Indonesia, Kendari, Indonesia
Sudarmanto Saeka, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Indonesia, Kendari, Indonesia
Idris Idris, Universitas Negeri Malang, Indonesia, East Java, Indonesia
La Ode Almana, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Indonesia, Kendari, Indonesia

ID 137  Testing the Relationship of Academic Information System, Service Units Performance, and Student Satisfaction in Private Higher Education Institutions
Muhammad Nuzul Qadri, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Kendari, Indonesia
Ismail Suardi Wekke, Institut Agama Islam Negeri (IAIN) Sorong, Indonesia, West Papua, Indonesia
Bakhtiar Abbas, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Kendari, Indonesia
Asyraf Yunus, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Kendari, Indonesia
Sudarmanto Saeka, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Kendari, Indonesia
Idris Idris, Universitas Negeri Malang, East Java, Indonesia

1:00 – 2:45, SATURDAY  Business Management  Room 3
Session Chair: Wahyudi Sutopo, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 100  Development of Risk-Based Standardized WBS (Work Breakdown Structure) for Civil and Structural Works of Coal-Fired Steam Power Plant Construction Project in Indonesia to Improve Time Performance
Veriza Agustin, Leni Sagita Riantini and Yusuf Latief, Department of Civil Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 027  Improvement of Employee Performance at One Stop Administration Services Office in Takalar Regency Through Leadership and Employee Training and Motivation as Mediation Variable
Nasrullah, Baharuddin, and Abdul Latief R, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Masriadi Patu, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 029  The Influence of Situational Leadership on Employee Performance Through Work Discipline and Organizational Climate at the Department of Manpower and Industry Bantaeng Regency
Nursamsi, Miharsi Chandra, Syahruddin, and Mansur Azis, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

ID 121  Feasibility Study to Develop Production of Active Ingredients NaNi0, 5Ti0, 5O2 Sodium Cathode : A Case Study From Salt in Java Island
Ahmad Tito Prabowo, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Muhammad Hisjam, Laboratory 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 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 151  Consumer Behavior and Sustainable Performance: Perceived of E-Service Quality on Online Shopping
Jonathan Ricky Sandjaja, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia
Hiraga Seti Yustian, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia
Nurul Atiah, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia
Ahmad Naufal Haidar, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia
Muhammad Nadhiv Nibrasky, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia
Doni Purnama Alam Syah, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia

ID 193  The Influence of Self-Efficacy on Employee Motivation in Osds Division (Own Solution Delivery Service) Pt. Astra Graphia
Aprilius Nico Holong Silalahi, Anita Silvianita, Mahir Pradana and Ida Nurmaid, Study program Bachelor of Business Administration, School of Communication and Business, Telkom University, Bandung, Indonesia

ID 200  Organizational Commitment And Career Systems' Influence on Performance of Samapta Directorate of Metro Jaya Regional Police Officers
Nadya Deannisa Yandramadjid, Romat Saragih and Mahir Pradana, Bachelor Of Business Administration, Faculty Of Communication and Business, Telkom University, Bandung, Indonesia

July 10, 2021 (Saturday) - Session: 3:00 – 4:45 pm

3:00 – 4:45, SATURDAY  Industry 4.0 / Industry Solutions III  Room 1
Session Chair: Ts. Dr. Mehran Doulat, Xiamen University Malaysia (XMUM)
3:00 pm, Saturday, July 10
Title of Presentation: Challenges and Conflicts in Sustainable Supply Chain Management in SMEs

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)

3:20 pm, Saturday, July 10

Title of Presentation: Strategic Management and Innovation in Industry 4.0

Dr. Kayhan Tajeddini
Professor of Strategic Management and International Business
Institute for International Strategy
Tokyo International University, Japan
Editor-in-Chief for the Middle East Journal of Management (Inderscience)

3:40 pm, Saturday, July 10


Dr. Nader Ale Ebrahim
Research Visibility and Impact Consultant
Adjunct Lecturer
Al-zahra University
Tehran, Iran

4:00 – 4:20 pm, Saturday, July 10

Research and Development (R&D) Projects and Industry 4.0

Dr. Muhammad Adil Khattak, MASME, MANS, MASNT, MPEC, MEA, MIAENG
Materials Engineer
HRL Technology Group Pty Ltd
Queensland, Australia

4:20 pm, Saturday, July 10

3:00 – 4:45, SATURDAY Operations Excellence Room 2

ID 221 Internet Banking and Its Infrastructural Challenges: Analysis across Gender and Computer Awareness
Muhammad Ali Khan, Assistant Professor & PhD Scholar, Department of Industrial Engineering & Management, Mehran University of Engineering & Technology, Jamshoro, 76062, Sindh, Pakistan
Muhammad Ahmed Kalwar, Post Graduate Student Alumini (MUET) & Assistant Manager (Production), Shafi Private Limited, Lahore, Punjab, Pakistan
Mehmood Ali Gul, Post Graduate Student, Muhammad Ali Jinnah University (MAJU), Karachi, Sindh, Pakistan
Zartashia Kiran Imran, Assistant Professor, Department of Management Sciences, Muhammad Ali Jinnah University (MAJU), Karachi, Sindh, Pakistan

ID 222 Investigation of Defects in the Yarn Manufacturing Processes: A Case Study of Kotri, Sindh, Pakistan
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 & Technology, Jamshoro, 76062, Jamshoro, Sindh, Pakistan
Hussain Bux Marri, Meritorious Professor, Dean (Technology) & Chairman, Department of Mechanical Engineering, Benazir Bhutto Shaheed University of Technology & Skill Development (BBSUTSD), Khairpur Mirs, Sindh, Pakistan

ID 223 Analysis of Problems Reported by Patients during COVID-19 Pandemic: A Case Study across Patients’ Gender
Hamid Ali Kalwar, General Physician, Murshid Hospital, Karachi, Sindh, Pakistan
Shahid Majid, Gastroenterologist & Hepatologist, Indus Hospital Karachi, Sindh, Pakistan
Muhammad Ali Khan, PhD Scholar & Assistant Professor, Department of Industrial Engineering & Management, Mehran UET, Jamshoro, 76062, Sindh, Pakistan
Muhammad Ahmed Kalwar, Post Graduate Alumini (MUET) & Assistant Manager Production, Shafi Private Limited, Lahore, Punjab, Pakistan
3:00 – 4:45, SATURDAY

Manufacturing and Learning

Session Chair: Basri Fahriza, 1 Malaysia Institute of Transportation (MITRANS), Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia

ID 030  The Influence of School Environment and Student Discipline on Learning Outcomes through Learning Motivation at Technical implementation Unit (UPT) Senior High School (SMAN) 22 Makassar
Yuspianti, Mislia, and Gunawan Bata Iyas, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia

ID 031  The Influence of Human Resource Development and Organizational Culture on Public Service Quality through Employee Performance in Central Mamuju District
Nurlaela, Gunawan Bata Iyas, and Muhammad Natsir, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Elpisah, STKIP Pembangunan Indonesia, Makassar, Indonesia

ID 32  The Influence of Motivation and Competence on Health Care Quality and its Impact on Patient Satisfaction in Hospital Emergency Room in Majene Regency
Tasniah, Mattalatta Mattalatta, and Purnomo Purnomo, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Feby Triadi, Sekolah Tinggi Ilmu Administrasi Puanagrimagalatung, Makassar, Indonesia

ID 116  Issues and Challenges of Aviation Maintenance Repair and Overhaul in Southeast Asia
Basri Fahriza 1, 2, Adibah Shuib 1, 3 and Wan Mazlina Wan Mohamed 1, 4
1 Malaysia Institute of Transportation (MITRANS), Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia
2 Institut Transportasi & Logistik (ITL) Trisakti, Jl. IPN No.2, Jakarta Timur 13340, Indonesia
3 Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia
4 School of Mechanical Engineering, College of Engineering, Universiti Teknologi MARA, 40450 Shah Alam, Selangor, Malaysia

ID 059  Design and implementation of a real-time control system for industrial robots based on virtual reality technology
Jihong Yan, Professor in Industrial Engineering, Deputy Dean of School of Mechatronics Engineering, Head of intelligent Manufacturing Scientific Research Team, Harbin Institute of Technology, Harbin, China
Yuemin Chen, Bachelor, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin, China

ID 195  Evaluation of Competency Improvement through Functional Training Programs Using The Kirkpatrick’s Four-Level Method at the Ministry of State Secretariat’s Education and Training Center
Ayu Andini Nurzabira and Ade Irma Susanty, S1 Business Administration Study Program, Faculty of Communication and Business, Telkom University, Bandung, Indonesia

July 10, 2021 (Saturday) - Session: 5:00 – 6:45 pm

5:00 – 6:45, SATURDAY

Industry 4.0 / Industry Solutions IV - PANEL

Panel Title: "Human-centered manufacturing in Industry 4.0"

Panel Chair:

Dott. Ing. Luca Gualtieri
Research Fellow
Industrial Engineering & Automation (IEA)
Smart Mini Factory Laboratory
Free University of Bozen-Bolzano
Faculty of Science and Technology
39100 Bozen, Bolzano (BZ), Italy
5:00 - 5:10 pm, Saturday, July 10
Panel Speaker I

Prof. Sergio Salimbeni
Professor and Researcher
Universidad del Salvador
Argentina

ID 207  Humans and work in the Digital Factory: Designing the work organization
Sergio Salimbeni, Instituto de Ciencia y Tecnologia, Universidad del Salvador, Buenos Aires, Argentina
5:10 - 5:20 pm, Saturday, July 10
Panel Speaker II
Dr. Roberto A. Martins
Full Professor
Department of Industrial Engineering
Federal University of Sao Carlos
Sao Carlos, Brazil

Title of the speech "Performance Measurement Systems in Industry 4.0"
5:20 - 5:30 pm, Saturday, July 10
Panel Speaker III

Christina Schmidbauer, MSc
Human-Centered Cyber-Physical Production and Assembly Systems (HCCPPAS)
Institute of Management Science
TU Wien
Austria

Title of the speech “Democratization of Industrial Cobot Technology”
5:30 - 5:40 pm, Saturday, July 10
Panel Speaker IV

Dr. Federico Fraboni
Postdoctoral Researcher
University of Bologna
Italy

Title of the speech “Human Factors and cognitive ergonomics in industrial HRC: challenges and opportunities”
5:40 - 5:50 pm, Saturday, July 10
Panel Speaker V
5:50 - 6:45 pm, Saturday, July 10
Panel Discussion

5:00 – 6:45, SATURDAY  Service Systems and Service Management  Room 2
Session Chair: Aila Imane, Institute of Health & Safety, University of Chahid Mostepha Ben Boulaid Batna 2, Batna, Algeria

ID 049  The Effect of Village Fund Allocation and Village Funds on Increasing the Welfare of Village Communities through Performance Management in Jeneponto Regency
Johan, Mattalatta Mattalatta, and Andi Muh. Rum Tajang, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia

ID 050  Analysis of Transformational Leadership on Civil Servant Performance through Public Service Motivation and Human Resources Capacity (Study at the Office of the Ministry of Religion, Bulukumba Regency)
Imamwani Wahyudi Asbara, Umi Farida, and Hasmin Tamsah, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Saidna Zulfikar Bin Tahir, Universitas Iqra Buru, Maluku, Indonesia

ID 051  Analysis of Social Assistance Grants for Improving Community Welfare in West Sulawesi Province
Makiyah, Mattalatta Mattalatta, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Abdul Razak Munir, Fakultas Ekonomi dan Bisnis, Universitas Hasanuddin, Makassar, Indonesia
Misnawati, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia

ID 067  Design and Implementation of Vision-based Workpiece Recognition System for Intelligent Manufacturing
Jihong Yan, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin 150001, China
Chao Chen, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin 150001, China

ID 070  The Correlation of Motivation on Achievement in English Language Among Selected Secondary Schools Students in Seremban, Malaysia
Zahuren binti Abdul Kadir and Zulida binti Abdul Kadir, Universiti Tun Hussein Onn Malaysia, 86400, Parit Raja, Johor Darul Takzim, Malaysia

ID 071  Assessment of an Accidental Liquified Petroleum Gas Release at a Petrochemical Site: a Case Study
Aila Imane, and Chettouh Samia, Laboratory of Research in Industrial Prevention, Institute of Health & Safety, University of Chahid Mostepha Ben Boulaid Batna 2, Batna, Algeria
July 11, 2021 (Sunday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, SUNDAY  Global Supply Chain and Logistics I  Room 1
Session Chair: Dr. Au Yong Hui Nee, Universiti Tunku Abdul Rahman (UTAR), Kampar, Perak, Malaysia

8:00 am – 8:30 am, Sunday, July 11

Dr. Sunil Tiwari
Senior Research Fellow
Centre for Next Generation Logistics
Department of Industrial Systems Engineering & Management
National University of Singapore
Singapore

Automation of Warehouse Storage System

8:30 am – 8:50 am, Sunday, July 11

Hemendra Nath Roy
Graduate Research Student, University of Regina, Canada
Supply Chain Manager, Gildan, Dhaka, Bangladesh

8:50 am – 9:10 am, Sunday, July 11

Noman Husain
Founder
TRANSFORMability
Detroit, Michigan, USA

9:10 am – 9:30 am, Sunday, July 11
8:00 – 9:45 am, SUNDAY     Operations Management     Room 2

Session Chair: Weigang Li, Professor in Industrial Engineering, Dean of Industrial Engineering, Harbin Institute of Technology, Harbin, China

ID 005 Identifying Workers with Low Aptitude toward Assembly Tasks in Production Cells Based on General Aptitude Test Battery Score
Yanwen Dong, Cluster of Science and Technology, Fukushima University, Fukushima city, Japan
Jiali Du, Graduate School of Symbiotic Systems Sciences and Technology, Fukushima University, Fukushima city, Japan

ID 020 The Influence of General Allocation Funds, Special Allocation Funds, and Original Regional Revenue on Regional Expenditures of Mamuju Regency
Ahmad, Mattalatta Mattalatta, and Hasan Nongkeng, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Yusep Mulya, Universitas Pasundan, Bandung, Indonesia

ID 021 Improving Student Learning Outcomes through Teacher Competence, Academic Supervision as well as Education and Training
Sahran, Gunawan B. Ilyas, and Hasbi Hasbi, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Muhammad Ybnu, Universitas Tomakaka, Mamuju, Indonesia

ID 065 Research on the Data Mining Method for Design Knowledge of Industrial Robots Based on Association Rules
Weigang Li, Professor in Industrial Engineering, Dean of Industrial Engineering, Harbin Institute of Technology, Harbin, China
Chi Wang, Bachelor, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin, China
Jihong Yan, Professor in Industrial Engineering, Deputy Dean of School of Mechatronics Engineering, Head of intelligent Manufacturing Scientific Research Team, Harbin Institute of Technology, Harbin, China

ID 063 A production scheduling method for flexible flow shops based on simulation models
Jihong Yan, Professor in Industrial Engineering, Deputy Dean of School of Mechatronics Engineering, Head of intelligent Manufacturing Scientific Research Team, Harbin Institute of Technology, Harbin, China
Weiyl Zhao, Bachelor, School of Mechatronics Engineering, Harbin Institute of Technology, Harbin, China

ID 117 Pesantren Darul Huffadh Tuju-Tuju Indonesia: Model of Teaching and Learning in Social Environment
Muhammad Yusuf, UIN Alauddin Makassar, South Sulawesi, Indonesia
Wayuddin Naro, UIN Alauddin Makassar, South Sulawesi, Indonesia
Ismail Suardi Wekke, Sekolah Tinggi Agama Islam Negeri (STAIN) Sorong, West Papua, Indonesia, The Jusuf Kalla Research Center for Bugis Makassar Cultural Studies, Universitas Muslim Indonesia, South Sulawesi, Indonesia

8:00 – 9:45 am, SUNDAY     Business Management     Room 3

Session Chair: Christian Salomo, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia

ID 33 The Role of Parents’ Knowledge, the Environment on Student Behavior and Its Impact on Dental and Oral Health in the Work Area of the Community Health Center in Central Mamuju
Ni Putu Hendria Dewi, Hasmin Tamsah and Darti Darti, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Muhammad Ybnu, Universitas Tomakaka, Mamuju, Indonesia

ID 34 The Influence of Competence and Job Placement on Job Performance through Job Satisfaction in the Office of the XIX Region of South Sulawesi Land Transportation Management
Mardiana, Baharuddin, and Baharuddin Baharuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Firman H., Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 35 The Effect of Compensation and Supervision on Job Satisfaction through Work Discipline of Regional Contract Workers at the Regional General Hospital of Central Mamuju Regency
Setyo Bero, Hasmin Tamsah, and Purnomo Purnomo, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Armin Anwar, Postdoctoral Program, Universitas Muslim Indonesia, Makassar, Indonesia

ID 134 The Principles of Organizational Citizenship Behavior in Disaster Mitigation
Ishak Runi and A. Ferdian, Universitas Andi Djemma, Palopo, Indonesia
I. S. Wekke, Postgraduate Program, Institut Agama Islam Negeri (IAIN) Sorong, Indonesia

ID 138 Performance on Academic Information System Service Units and Student Satisfaction in Private Higher Education
Bakhtiar Abbas, Sekolah Tinggi Ilmu Enam Enam, Kendari, Indonesia
Ismail Suardi Wekke, Institut Agama Islam Negeri (IAIN) Sorong, The Jusuf Kalla Research Center for Bugis Makassar Cultural Studies, Universitas Muslim Indonesia, West Papua, Indonesia
Abdul Razak, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Kendari, Indonesia
Sudarmanto Saeka, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Kendari, Indonesia
Idris Idris, Universitas Islam Negeri, East Java, Indonesia
Asyraf Yunus, Sekolah Tinggi Ilmu Ekonomi Enam Enam, Kendari, Indonesia
Jul 11, 2021 (Sunday) - Session: 9:30 am – 1:00 pm

Keynote Speakers

9:40 – 10:20 am, July 11, Sunday – **Keynote IX** – Room 1

**Jd Marhevko**
Vice President of Quality, ZF Division U. Electronics & ADAS
ZF Group
Farmington Hills, Michigan, United States

10:20 – 11:00 am, July 11, Sunday – **Keynote X** – Room 1

**Dr. Sri Talluri**
Hoagland-Metzler Endowed Professor in Purchasing and SCM
Department of Supply Chain Management
Broad College of Business
Michigan State University
East Lansing, MI, USA

11:00 – 11:40 am, July 11, Sunday – **Keynote XI** – Room 1

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

11:40 am – 12:20 pm, July 11, Sunday – **Keynote XII** – Room 1

**Dr. Pengxiang Wang**
Associate Professor
School of Energy Science and Engineering
Harbin Institute of Technology
Harbin, China

12:20 – 1:00 pm, July 11, Sunday – **Keynote XIII** – Room 1
Dr. Yuchun Xu  
Professor and Chair in Manufacturing  
School of Engineering and Applied Science  
Aston Institute of Urban Technology and the Environment (ASTUTE)  
Aston University  
Birmingham, United Kingdom

July 11, 2021 (Sunday) - Session: 1:00 – 2:45 pm

1:00 – 2:45 pm, SUNDAY  
Global Supply Chain and Logistics II  
Room 1

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

1:00 pm – 1:20 pm, Sunday, July 11

Dr. Zulqurnain Ali  
Post Doctorate Researcher  
University of Science and Technology of China  
Hefei, Anhui, China  
Assistant Professor of Business Administration (Big data and Supply Chain)  
Department of Economics & Business Administration  
University of Education, Lahore, Pakistan

1:20 pm – 1:40 pm, Sunday, July 11

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

1:40 pm – 2:00 pm, Sunday, July 11

Dr. Aldy Gunawan  
Assistant Professor of Computer Science (Practice)  
School of Computing and Information Systems  
Singapore Management University  
Singapore

2:00 pm – 2:20 pm, Sunday, July 11

Moses Jeremiah Barasa Kabeyi  
Doctor of Engineering Scholar in Industrial Engineering  
Department of Industrial Engineering  
Durban University of Technology  
South Africa

2:20 pm – 2:40 pm, Sunday, July 11

Farhan Mirza  
President  
BAFF Consultants Inc.  
Orange County, California, United States

1:00 – 2:45 pm, SUNDAY  
Healthcare Systems  
Room 2

Session Chair: Arifuddin Rachmat Fisu, Universitas Hasanuddin, Makassar, Indonesia

ID 231 Pre-Implementation Roadmap of Telemedicine in Low-Income Low Medical Density and Low Literacy Regions with the Aid of Principal Component Analysis  
Ilham Kissani and Ghizlane Rehioui, School of Science and Engineering, Al Akhawayn University, Morocco
ID 94  Analysis of Employee Satisfaction at UD. Tito Medan
Dewi Angraini, Marketing Management Study Program, Politeknik Cendana, North Sumatera, Indonesia
Fahmi Sulaiman, Office Management Study Program, Sekolah Tinggi Ilmu Manajemen Sukma, North Sumatera, Indonesia
Supriyanto Supriyanto, Business Administration Study Program, Politeknik LP3i Medan, North Sumatera, Indonesia
Budi Hartono, Master in Public Administration, Universitas Medan Area, North Sumatera, Indonesia
Agung Suharyanto, Public Administration Study Program, Faculty of Social Science and Political Science, Universitas Medan Area, Indonesia
Endang Haryati and Rahma Afwina, Psychology, Universitas Medan area, North Sumatera, Indonesia

ID 95  The Influence of Organizational Culture and Knowledge Sharing on Employee Performance of PT. Hariff Daya Tunggal Engineering
Anita Silvianita, Mahendra Fakhri, Michael Joseph Aprilio Mahisa, and M Yahya Arwiyah, School of Communication and Business Telkom University, Bandung, West Java, Indonesia

ID 135  Work Accident Risk at Hospital Construction Environment
Marsus Suti, Amruuddin Akbar Fisu, Ahmad Ali Hakam Dani, Apriyanto Apriyanto, Andi Dewi Anggreyani and Amul Amruh, Universitas AND Djemaa, Palopo, Indonesia
Anfuddin Rachmat Fisu, Universitas Hasanuddin, Makassar, Indonesia
Ismaul Suardi Weke, Institutut Agama Islam Negeri (IAIN) Sorong, Indonesia

ID 36  The Influence of Health Facilities and Competence on Service Quality through the Performance of Health Workers in the Regional General Hospital of Mamuju Tengah Regency
Radia, Rasjidin Abdullah, and Hasmin Tamsah, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimaggalatung, Makassar, Indonesia

ID 148 The Role of Competency on The Effect of Training and Development System toward Job Productivity in The Human Resource Management Universal Corporation
Cholicul Hadi, Doctoral Program of Human Resource Development, Postgraduate School of Universitas Airlangga, Surabaya, Indonesia
Wanda Gema Prasadi Akbar Hidayat, 2Faculty of Psychology, Universitas Airlangga, Surabaya, Indonesia

1:00 – 2:45 pm, SUNDAY  Logistics and Supply Chain  Room 3

ID 92  Digitization and Wide Distribution of Mangrove Forests in the Coastal Region North Pising Bay on Kabaena Southeast Sulawesi
Aah Ahmad Almulaq, Fransiskus Xaverius Dako, and Emi Renoat, Forestry Department, Kupang State Polytechnic of Agricultural, Indonesia
Abdul Hapid, and Sudirman Daeng Massiri, Professor in Industrial Engineering, Faculty of Forestry, University of Tadulako, Indonesia
Muhammad Halkis, Indonesian Defense University, Indonesia
Melewanoto Patabang, Bogor Agricultural University, Indonesia

ID 093 HR Competence as an Intervening Variable the Effect of Strategic Planning on Company Performance
Wardayani Wardayani, Azhar Maksum, Erlina Erlina, and Rina Bukit, Faculty of Economy and Business, Universitas Sumatera Utara, North Sumatera, Indonesia

ID 101  Development of Risk-Based Standardized WBS (Work Breakdown Structure) for Preparatory, Instrumentation and Control Works of Coal-Fired Steam Power Plant Construction Project in Indonesia to Improve Time Performance
Fista Septianingtias, Lenin Sagita Riantini, and Yusuf Latief, Department of Civil Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 102 Malaysia Construction Logistics Performance Through A Lens Of Communication And Supply Base Strategy
Mohd. Faiz Aini, Malaysia Institute of Transport (MITRANS), Universiti Teknologi MARA (UiTM) Shah Alam, Shah Alam, 40450 Malaysia
Nasruddin Faisal, Senior Lecturer, Faculty of Architecture Planning & Surveying, Universiti Teknologi MARA (UiTM) Shah Alam, Malaysia
Norfashika Hashim, Senior Lecturer, Faculty of Architecture Planning & Surveying, Universiti Teknologi MARA (UiTM) Shah Alam, Malaysia

ID 060 Road Traffic Accident Hot Spots 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, Tunisia
Attig Ines, Department of Economics, Faculty of Economic Sciences and Management of Sousse, University of Sousse, Tunisia
Harizi Riadh, Department of Business Administration, University of Bisha, Bisha, Saudi Arabia, College of Business, BISHA, 61922, Saudi Arabia

ID 211 The Impact of Post-Covid-19 Container Shortage Crisis on Global Supply Chains
Mohamed Salah El Din, Dr. Masengu Reason, and Melissa Ncube, Lecturers, Department of Management Studies, Middle East College, Muscat, Sultanate of Oman
Sultan Al Kaabi, Operation Manager, Khazzan Logistics Management Service, Muscat, Sultanate of Oman

ID 220 Violence and Irritation on the Road While Driving: A Case Study
Muhammad Ahmed Kalwar, Post Graduate Alumni (MUET) & Assistant Manager Production, Shafl Private Limited, Lahore, Punjab, Pakistan
Shakeel Ahmed Shaikh, Associate Professor & Co-director (Post Graduate Studies), Department of Industrial Engineering & Management, Mehran UET, Jamshoro, 76062, Sindh, Pakistan
Muhammad Ali Khan, Post Graduate Student & Assistant Professor, Department of Industrial Engineering & Management, Mehran UET, Jamshoro, 76062, Sindh, Pakistan
July 11, 2021 (Sunday) - Session: 3:00 – 4:45 pm

3:00 – 4:45 pm, SUNDAY   Global Supply Chain and Logistics III    Room 1

Session Chair: Sagit Kedem-Yemini, Sapir Academic College, Sderot, Israel

3:00 pm, Sunday, July 11

Sagit Kedem-Yemini
Logistics Department
Sapir Academic College
Sderot, Israel

3:20 pm, Sunday, July 11

Dr. Zulkifli M. Udin
Associate Professor
Universiti Utara Malaysia
Malaysia

3:40 pm, Sunday, July 11

Shaik Abdul Khadar
Chief Executive Officer
Data Labs India Solutions Pvt Ltd.
INDIA

Presentation Topics:
How Supply Chain Control Tower helps to achieve supply chain excellence
Achieve manufacturing excellence through Manufacturing Execution System

4:00 pm, Sunday, July 11

Muthana Alsaeiq
Supply Chain Consultant
Business Associates
Riyadh, Saudi Arabia

4:20 pm, Sunday, July 11

Dr. Yaşanur Kayikci
Associate Professor of Industrial Engineering and Head of Industrial Engineering Program
Founding Head of Department of Industrial Engineering
Türkisch-Deutsche Universität, Istanbul, Türkei

ID 219 Holistic Design Framework of Digital Supply Chain
Yaşanur Kayikci, Turkish-German University

3:00 – 4:45 pm, SUNDAY   Engineering Management    Room 2

Session Chair: Adnin Fairuzy Putri, Universitas Indonesia, Depok, 16424, Indonesia

ID 037 The Role of Knowledge and Satisfaction of Nursing Services through Community Response to Immunization Coverage in the Work Area of the Community Health Center
Akhmad Furqan, Umi Farida, and Darti Darti, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Jumra, Sekolah Tinggi Ilmu Hukum Pengayoman, Makassar, Indonesia

ID 038 Analysis of Employee Competence and Innovation on Employee Performance through Compensation Scope of Development Planning Agency at Sub-National Level (BAPPEDA) Bulukumba Regency
Hafsa, Nasruddin Nawawi, and Hendra Gunawan, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
M Awaluddin A, Sekolah Tinggi Ilmu Administrasi Puangrimagglalutung, Makassar, Indonesia

ID 039 Analysis of the Influence of Leadership Style and Work Environment on Apparatus Performance in Improving Service Quality (Study at the Public Housing and Residential Areas of Mamuju Tengah District)
Muhammad Rusli, Agus budiono, and Muhammad Yahya, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Baharuddin, Universitas Bosowa, Makassar, Indonesia

ID 096 Service Quality Analysis with Importance-Performance Analysis at Warunk Upnormal Bandung
Devilia Sari, Nadya Moeliono, Farah Oktanani, Mahendra Fakhri, and Rima Novirayanti, School of Communication and Business Telkom University, Bandung, West Java, Indonesia
ID 098  The Effect Of The Use Of Influencer On The Purchase Decision Of Msme Culinary Products In Indonesia (Study on Snack Product “Kripik Belings” On Instagram)
Aditya Wardhana, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
Budi Rustandi Kartawinata, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia
Aldi Akbar, Politeknik Piksi Ganesha Bandung, Jalan Jend. Gatot Subroto No. 301, Bandung 40274, Indonesia
Irrianti Muslimin, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia

ID 099  Development of Risk-Based Standardized WBS (Work Breakdown Structure) for Mechanical and Electrical Works of Coal-Fired Steam Power Plant Construction Project in Indonesia to Improve Time Performance
Adin Fairuzi Putri, Lenti Sagita Riantini, and Yusuf Latief, Department of Civil Engineering, Universitas Indonesia, Depok, 16424, Indonesia

3:00 – 4:45 pm, SUNDAY    Data Analytics    Room 3
Session Chair: Rosmahalil Azrol Abdullah, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia

ID 046  The Influence of Service Quality and Nurse Performance on Patient Loyalty with Patient Satisfaction as Moderation Variables at Laspeang Health Center, Bantaeng Regency
Akbar Arfa, Hasmin Tamsah, and Baharudin Baharudin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimagallatung, Makassar, Indonesia

ID 047  Analysis of the Workload of Police Personnel in the Professional and Security Sector of the Central Sulawesi Regional Police
Nasrudin, Asep Putra Satria, Hendra Gunawan, and Buyung Romadhoni, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

ID 048  Analysis of the Effect of Health Promotion and Personal Hygiene on Covid 19 through Physical Distancing in Central Mamuju Regency
Rasjidin Abdullah, Universitas Islam Indonesia, Makassar, Indonesia
Yusriadi Yusriadi, Sekolah Tinggi Ilmu Administrasi Puangrimagallatung, Makassar, Indonesia

ID 090  Impact of Training and Development on Employee Performance on the Hotel Industry in Sri Lanka
Aysha Zeenath Aslam and Gayashini Shyananka Ratnayake, Informatics Institute of Technology, 57 Ramakrishna Rd, Colombo, Dehiwala, Sri Lanka

ID 091  Research on the Optimization of Cutlery Recycling Place Based on ProE Software
Guo Jidong, Ning Yuelan, Huang Langcheng, Ou Jianhai, Bie Xiwen, Wang Zuomei, Zou Xinfeng and Zhou Dawei, School of Industrial Automation Beijing Institute of Technology, Zuhuai, Guangdong Zuhuai, China

ID 086  Needs Analysis: A Japanese Language Learning Module of University Tun Hussein Onn Malaysia (UTHM)
Rosmahalil Azrol Abdullah and Zulida Abdul Kadir, Pusat Pengajian Bahasa, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia

July 11, 2021 (Sunday) - Session: 5:00 – 6:45 pm
Room 1

5:00 – 6:45 pm, SUNDAY    Global Supply Chain and Logistics IV    Room 1
Session Chair: Dr. Eldy Ramly, EFR Certification, Johor Bahru, Malaysia

5:00 pm, Sunday, July 11

Dr. Xiaohui Chen
Professor
Director of Council of Mechanical Engineering and Vehicle School
Chongqing University, China

ID 224  Supply Chain Innovation for Changing Business Environment: Empirical Evidence from PRC
Xiaohui Chen, An Youjun, Zhang Zhiyao, and Su Peng, Chongqing University, China

5:20 pm, Sunday, July 11

Dr. Olasumbo Makinde
Lecturer and Postgraduate Research Coordinator
Department of Operations Management
Tshwane University of Technology
Pretoria West, South Africa

ID 086  Needs Analysis: A Japanese Language Learning Module of University Tun Hussein Onn Malaysia (UTHM)
Rosmahalil Azrol Abdullah and Zulida Abdul Kadir, Pusat Pengajian Bahasa, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia

5:40 pm, Sunday, July 11

Dr. Vivek Soni
Assistant Professor
Coordinator -Internal Quality Assurance Cell
Coordinator Centre of Excellence (CoE) for Innovative Energy Solutions
Bharatiya Vidya Bhavan’s - Usha and Lakshmi Mittal Institute of Management
New Delhi, India

6:00 pm, Sunday, July 11

**Dr. Edly Ferdin Ramly**
Certification Director
EFR Certification
Johor Bahru, Malaysia

6:20 pm, Sunday, July 11

**Md Tanbiruj Jaman**
Supply Chain Planner
PepsiCo
Wichita, Kansas, USA

6:40 pm – 7:00 pm, Sunday, July 11

**Teresa Verduzco-Garza**
Researcher and Professor
Industrial and systems Engineering Department, Engineering School
University of Monterrey, Mexico

Topic: Synergy and Collaboration in Supply Chains

5:00 – 6:45 pm, SUNDAY

**Sustainability and Green Systems**
Room 2

Session Chair: R. Rudrabhi Ramu, Vignan’s Institute of information Technology(A), Duvvada, Visakhapatnam-49, India

**ID 043 The Effect of Competence and Rewards on Employee Performance through Motivation at the Sultan Daeng Radja Regional General Hospital, Bulukumba Regency**
Tria Hanury Damm, Erwin Wijaya, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Razak Munir, Ekfadyly Jusuf, Fakultas Ekonomi dan Bisnis, Universitas Hasanuddin, Makassar, Indonesia

**ID 044 Analysis of Work Capability with Work Environment Management and the Effectiveness of Education and Training on Civil Servant Performance**
Martina, Ansar, and Syafri Arief, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia
Geminastiti Sakkir, Universitas Negeri Makassar, Makassar, Indonesia

**ID 045 The Influence of Leadership Style and Organizational Culture on Employee Performance Through Motivation in PT. Angkasa Pura 1 (Persero) Unit Airport Rescue and Fire Fighting (ARFF) Sultan Hasanuddin Maros International Airport**
Farid Mampawa, Hasmin Tamsah, Baharudin Baharudin, and Umar Syarifuddin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

**ID 104 Digitalization of steel plants operations**
Corrado Licata, IOMES GROUP Limited Hong Kong, P.R. China

Mohd Noor Bin Mohd Isa and Siti Ayu Binti Jall, Malaysia Institute of Transport (MITRANS), Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia

**ID 115 Indonesian Science and Technology Higher Education: A Portrait from Tanah Papua of YAPIS Experiences**
Rudihartono Ismail, Universitas Amal Ilmiah Yapis Warnena, Indonesia
Helmawati Helmawati, Universitas Islam Nusantara, Indonesia
Ismail Suardi Wekke, Institut Agama Islam Negeri (IAIN) Sorong, Indonesia, The Jusuf Kalla Research Center for Bugis Makassar Cultural Studies, Universitas Muslim Indonesia, Indonesia

**ID 154 Managing Medical Waste during COVID-19 Outbreak: A Simulation Approach**
Agus Mulyadi and Niniet Indah Arvitrida, Industrial and System Engineering Department, Sepuluh Nopember Institute of Technology (ITS), Surabaya, 60111, Indonesia

**ID 163 Design of Mini Hydel power plant and Venturi meter diameter for Apple plantation Cultivation in Hilly areas**
R. Rudrabhi Ramu, Associate Professor, Department of Mechanical Engineering Vignan’s Institute of information Technology(A), Duvvada, Visakhapatnam-49, India
S. Yougeswararao Rao, Assistant Professor, Department of Basic Sciences & Humanities Vignan’s Institute of information Technology(A), Duvvada, Visakhapatnam-49, India
Sirisha Korrai, Associate Professor, Department of Basic Sciences & Humanities Vignan’s Institute of information Technology(A), Duvvada, Visakhapatnam-49, India
P.H.J. Venkatesh, Assistant Professor, Department of Mechanical Engineering Vignan’s Institute of information Technology(A), Duvvada, Visakhapatnam-49, India
5:00 – 6:45 pm, SUNDAY  
**Design and Analysis**  
Room 3

**Session Chair:** Guo Jidong, School of Industrial Automation, Beijing Institute of Technology, Zhuhai, Guangdong Zhuhai, China

**ID 040**  
The Effect of Locus of Control and Competency on Medical and Paramedic Functional Performance through Motivation in The Center of Veterinaries Maros  
Gembong Rachmadany, Hendra Gunawan, and Muhammad Tamrin, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia  
A. Suparlan Isya Syamsu, Pharmacy Department, Universitas Megarezky, Makassar, Indonesia

**ID 041**  
The Influence of Human Resource Management and the Work Environment on Employee Performance through the Quality of Human Resources at the Regional Secretariat of Bantaeng Regency  
Swasti Indasari, Budiman Haruna, and Hendra Gunawan, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia  
Zakir Muhammad, Sekolah Tinggi Ilmu Ekonomi Panca Bhakti, Palu, Indonesia

**ID 042**  
Professionalism Analysis of the Discipline and Performance of Police Officers at Polres Jeneponto  
Bakri, Muhammad Aswar, Ansar, and Syafri Arief, Sekolah Tinggi Ilmu Ekonomi AMKOP Makassar, Indonesia

**ID 118**  
Correlation between Intrinsic and Extrinsic Motivation to Employee Performance Through Commitment and Organizational Culture  
Aras Solong, Universitas Islam Makassar, Sulawesi Selatan, Indonesia  
Ismail Suaridi Wekke, Institut Agama Islam Negeri (IAIN) Sorong, The Jusuf Kalla Research Center for Bugis Makassar Cultural Studies, Universitas Muslim Indonesia, Sorong, Indonesia  
Dzulqarnain Aras, Universitas Muhamadiyah Bulukumba, Sulawesi Selatan, Indonesia  
Muh Makbul, Universitas Islam Negeri Alauddin Makassar, Sulawesi Selatan, Indonesia

**ID 088**  
Influence of Return On Assets (ROA) And Earning Per Share (EPS) To Share Price (Study On Property And Real Estate Companies Listed On IDX Period 2010 – 2014)  
Budi Rustandi Kartawinata, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia  
Rasyid Heryuda, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia  
Mahir Pradana, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia  
Aldi Akbar, Politeknik Piksi Ganesha Bandung, Jalan Jend. Gatot Subroto No. 301, Bandung 40274, Indonesia

**ID 089**  
Improvement of a Furniture Production Line Based on Flexsim  
Guo Jidong, Liang Yuyan, Zhang Kaibin, Jiang Junhao, Feng Caiping, Mo Yuwei, Zhang Yongyang, and Zhou Dawei, School of Industrial Automation, Beijing Institute of Technology, Zhuhai, Guangdong Zhuhai, China

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**July 11, 2021 (Sunday) - Session: 8:00 – 10:00 pm**

**Conference Awards Ceremony (Virtual)**
Used by 1.5 Million Students at Over 2,400 Institutions Worldwide

CATME Provides Instructor Tools for:

- Assigning students to better functioning teams using Team-Maker surveys
- Training students to work in teams through Teamwork Training Tools
- Identifying teams having teamwork difficulties
- Training students to rate teamwork behaviors using Peer Evaluation and Rater Practice surveys

Form and Manage Student Teams Online

For more information, go to info.catme.org
Third European IEOM Conference in Pilsen, Czech Republic, July 23-26, 2019

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
### IEOM Student Chapters around World

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<th>Country</th>
<th>Institute</th>
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<tbody>
<tr>
<td>Algeria</td>
<td>Adrar University</td>
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<tr>
<td>Australia</td>
<td>Queensland University of Technology (QUT), Brisbane</td>
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<td>Bahrain</td>
<td>University of Bahrain</td>
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<td>Ahsanullah University of Science &amp; Technology (AUST)</td>
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<td>Haiti</td>
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<td>India</td>
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### IEOM Executive Committee

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Titles and Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Director of Membership and Chapter</td>
<td>Professor Donald M. Reimer</td>
<td>President, Small Business Strategy Group, Detroit, Michigan, USA Adjunct Faculty – Lawrence Tech Southfield, Michigan, USA</td>
</tr>
<tr>
<td>Director of Program</td>
<td>Dr. Mohammad Khadem</td>
<td>Associate Professor Department of Mechanical and Industrial Engineering Sultan Qaboos University Muscat, Oman</td>
</tr>
<tr>
<td>Director of Publication</td>
<td>Dr. Mohammad Anwar Rahman</td>
<td>Associate Professor Manufacturing and Construction Management Central Connecticut State University New Britain, CT, USA</td>
</tr>
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<td>Executive Director</td>
<td>Dr. Ahad Ali</td>
<td>Associate Professor and Director of IE Program, A. Leon Linton Dept. of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, Michigan, USA</td>
</tr>
<tr>
<td>Competition and Workshop Director</td>
<td>Dr. Saso Krstovski</td>
<td>Lean Manufacturing Coach /Six Sigma Master Black Belt, Van Dyke Transmission Plant Ford Motor Company, Michigan, USA</td>
</tr>
<tr>
<td>Associate Program Director</td>
<td>Dr. Annamalai Pandian</td>
<td>Associate Professor and Director, Bachelor of Science in Engineering Technology Management Department of Mechanical Engineering Saginaw Valley State University Michigan, USA</td>
</tr>
<tr>
<td>Associate Program Director</td>
<td>Dr. Hayder Zghair</td>
<td>Assistant Teaching Professor of Industrial and Manufacturing Engineering, Pennsylvanian State University, The college: Penn State Berk, PA, USA</td>
</tr>
<tr>
<td>Associate Director of Chapter Development</td>
<td>Dr. Ir. Lina Gozali</td>
<td>Lecturer Industrial Engineering Department Tarumanagara University (UNTAR) Jakarta, Indonesia</td>
</tr>
<tr>
<td>Operations Manager</td>
<td>Dr. Taufiq Islam</td>
<td>IEOM Society International Southfield, Michigan, USA</td>
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<tr>
<td>Director of Web Development</td>
<td>Suvro Sudip</td>
<td>Software Engineer II Jervis B. Webb Company Detroit, Michigan</td>
</tr>
<tr>
<td>Director of Certification</td>
<td>Dr. Joseph M. Ogundu</td>
<td>President/CEO Emerald Global Consulting Inc. West Bloomfield, Michigan</td>
</tr>
<tr>
<td>Assistant Program Director</td>
<td>Ms. Rocksana Ahmed</td>
<td>Senior - BS in Mechanical and Manufacturing Engineering Technology, Lawrence Technological University, Southfield, Michigan, USA</td>
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</tbody>
</table>
IEOM Global Council

Professor Charles Mbohwa
Pro-Vice Chancellor Strategic Partnerships and Industrialisation
University of Zimbabwe
Mt Pleasant, Harare, Zimbabwe

Professor Abdul Talib Bon, Ph.D.
Professor of Technology Management, Department of Production and Operations Management, Universiti Tun Hussein Onn Malaysia

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

Prof. Jose Arturo Garza-Reyes, Ph.D.
Professor of Operations Management
Head of the Centre for Supply Chain Improvement
College of Business, Law and Social Sciences, Derby Management School
University of Derby, UK

Dr. Umar Al-Turki
Professor Systems Engineering Department
King Fahd University of Petroleum and Minerals
Dhahran, Saudi Arabia

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Graduate Program Coordinator Professor, Department of Industrial and Systems Engineering
North Carolina A&T State University
Greensboro, North Carolina, USA

Dr. Ilham Kissani
Assistant Professor of Engineering & Management Science
School of Science & Engineering
Al Akhawayn University
Ifrane, Morocco

Professor Abu Masud, Ph.D., P.E.
Emeritus Professor
Department of Industrial and Manufacturing Engineering
Wichita State University
Kansas, USA

Dr. Abdur Rahim
Professor
Faculty of Business Administration
University of New Brunswick
Fredericton, NB, Canada

Professor Hamid Parsaei, Ph.D., PE
Professor, Industrial and Systems Engineering
Texas A&M University (College Station)
USA

Professor Bernardo Villarreal, Ph.D.
Professor, Department of Engineering
Universidad de Monterrey
San Pedro Garza Garcia, NL Mexico
Upcoming Events

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/rome2020/

1st Indian International Conference on Industrial Engineering and Operations Management
August 16-18, 2021, Bangalore, India
Host: Amrita University, Bangalore
Conference Website: www.ieomsociety.org/india2021

2nd Asia Pacific Conference on Industrial Engineering and Operations Management
Sept. 14-16, 2021, Surakarta, Indonesia
Host: Sebelas Maret University (UNS)
Conference Website: www.ieomsociety.org/indonesia2021/

6th North American Conference on Industrial Engineering & Operations Management
Monterrey, Mexico, November 3-5, 2021
Venue: CINTERMEX-Monterrey Convention Center
Conference Website: www.ieomsociety.org/monterrey2020/

12th Annual IEOM Conference
Istanbul, Turkey, March 8-10, 2022
Host & Venue: Kadir Has University in collaboration with Sabanci University
Conference Website: www.ieomsociety.org/istanbul2022/

Industrial Engineering and Operations Management Society International
IEOM Society International
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Phone: 1-248-450-5660, www.ieomsociety.org, Email: info@ieomsociety.org