

5th European Conference on Industrial Engineering and Operations Management

July 26-28, 2022

Rome, Italy

Organizer



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"Achieving and Sustaining Operational Excellence"

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Industrial Engineering and Operations Management Society International

IEOM Society International, 21411 Civic Center Dr., Suite 205, Southfield, Michigan 48076, USA
Phone: 1-248-450-5660, Email: info@ieomsociety.org

Welcome to the 5th European Conference on Industrial Engineering and Operations Management in Rome

To All-Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the **5th European Conference on Industrial Engineering and Operations Management**, July 25-28, 2022, hosted by Sapienza – University of Rome. This unique international conference provides a forum for academics, researchers, and practitioners from many industries to exchange ideas and share recent developments in the fields of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of major trends in industrial engineering and operations management. There were more than 600 papers/abstracts submitted from 51 countries. After a thorough peer-review process, more than 400 have been accepted for presentation and publication. The program includes many cutting-edge topics in industrial engineering and operations management.

This conference will address many of the issues concerning the continuous improvement of quality and service. The IEOM Society is delighted to have the following keynote speakers at their 5th European Conference:

1. Dr. Giulio di Gravio, Full Professor at the Department of Mechanical and Aerospace Engineering and Coordinator of the PhD course in Industrial and Management Engineering, Sapienza – University of Rome, Rome, Italy
2. Dr. Alexandre Dolgui, Editor-in-Chief, International Journal of Production Research, Distinguished Professor, Head of Department Automation, Production and Computer Sciences, IMT Atlantique, Nantes, France
3. Andrea Benfenati, Founder and Senior Management Consultant, Newconsulting Srls, Parma, Emilia-Romagna, Italy
4. Prof. Dr. Tirta Nugraha Mursitama, Vice Rector of Research and Technology Transfer, Bina Nusantara University, Jakarta, Indonesia
5. Franco Megali, VP and CEO Italy, Israel and Greece, Siemens Industry Software S.r.l., Global Sales & Customer Success, Via Werner von Siemens, 1, 20128 Milano, Italy
6. Dr. Federica Caffaro, Faculty in Work and Organisational Psychology, Department of Education, Roma Tre University, Rome, Italy
7. Prof. Virgílio Cruz Machado, Director / Dean, Nova School of Science and Technology, Universidade NOVA de Lisboa, Caparica, Portugal
8. Dr. Tomohiko Sakao, Professor of Sustainable Product/Service Systems, Linköping University, Sweden
9. Dr. Maria Antonella Ferri, Dean, Economics and Business Management, Full Professor of Management, Universitas Mercatorum, Roma
10. Matteo Balboni, Sr. Engineering Manager | Quality Design | RCS, Medtronic, Mirandola, Italy
11. Raphael Grzebieta, Ph.D., Emeritus Professor (Road Safety), Transport and Road Safety (TARS) Research Centre, School of Aviation, University of New South Wales, Sydney, Australia
12. Dr. Juan Jesus Perez, Full Professor of Physical Chemistry, Universitat Politècnica de Catalunya, UPC, Barcelona, Spain
13. Luz María Valdez de la Rosa, Ph.D., Profesora del Departamento de Ingeniería Civil y Gestión, Universidad de Monterrey, Mexico
14. Mr. Salvatore Giuia, Head of MEP & Safety for Design & Built Activities, SYSTRA SWS, Rome, Italy, and Chairman of the Italian Technical Committee 4.4 "Tunnels" of the World Road Association

At this conference, the IEOM Society will hold its 32nd Global Engineering Education session. It will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The 31st IEOM Industry Solutions will showcase will also be held and feature major topics including IoT, AI, data analytics, iCloud, cybersecurity, automation, digital manufacturing, MSV, and industry best practices. The 2nd Global Business Management has three sessions. The 11th IEOM Global Supply Chain and Logistics will address the global logistic challenges due to the pandemic. Three-panel sessions have been planned: Global Engineering Education, Women in Industry and Transition to Human-Centric and Resilient Manufacturing Panel.

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

Sapienza - the University of Rome, the conference host, welcomes all participants. The IEOM Society Conference Organizing, and Planning Committee wishes all of you a very successful and meaningful conference. Enjoy the opportunity to listen, learn, and network. Hopefully, our guests will have an opportunity to explore the beautiful city of Rome.

Enjoy the conference!



Dr. Mario Fagnoli
Universitas Mercatorum (Committee Chairman)



Prof. Mara Lombardi
Sapienza - University of Rome



Dr. Patrick Dallasega
Free University of Bozen-Bolzano



Dr. Matteo Mario Savino
University of Sannio



Prof. Massimo Guarascio, Former full Professor at Sapienza-University



Dr. Andrea FALEGNAMI
Sapienza-University of Rome



Dr. Silvia COLABIANCHI
Sapienza-University of Rome



Dr. Ahad Ali
Lawrence Tech, MI, USA

Conference Overall Program

Day 1 – July 25 (Monday) - Online

6:00 am – 6:00 pm Student Competitions and Technical Presentations – Zoom Rooms 1-6
1:00 pm – 6:00 pm – Pre-Onsite Registration - Grand Hotel Palatino

ROOM A – CESARINI
ROOM B – TEVERE
ROOM C – ANIENE

Day 2 – July 26 (Tuesday)

06:00 – 07:45 am – Virtual Technical – Zoom Rooms 1-6
08:00 - 09:30 am - Global Engineering Education and Parallel Sessions – Onsite Rooms A, B & C and Zoom Rooms 1-4
7:30 am – 5:00 pm – Onsite Registration - Grand Hotel Palatino
09:45 - 10:00 am - Networking Break
10:00 - 10:20 am - Welcome Address: **Dr. Giulio di Gravio**, Full Professor at the Department of Mechanical and Aerospace Engineering, Coordinator of the PhD course in Industrial and Management Engineering, Sapienza – University of Rome, Rome, Italy
10:20 -11:00 am - Keynote Speaker I: **Dr. Alexandre Dolgui**, Editor-in-Chief, International Journal of Production Research, Distinguished Professor, Head of Department Automation, Production and Computer Sciences, IMT Atlantique, Nantes, France
11:00 - 11:40 am - Keynote Speaker II: **Andrea Benfenati**, Founder and Senior Management Consultant, Newconsulting Srls, Parma, Emilia-Romagna, Italy
11:40 am -12:20 pm - Keynote Speaker III: **Prof. Dr. Tirta Nugraha Mursitama**, Vice Rector of Research and Technology Transfer, Bina Nusantara University – BINUS University, Jakarta, Indonesia
12:20 - 12:40 pm - Keynote Speaker IV: **Franco Megali**, VP and CEO Italy, Israel and Greece, Siemens Industry Software S.r.l., Global Sales & Customer Success, Via Werner von Siemens, 1, 20128 Milano, Italy
01:00 - 02:00 pm - Lunch at Grand Hotel Palatino
02:00 - 03:45 pm - Global Engineering Education, WIIA Panel and Technical Parallel Sessions
04:00 - 05:45 pm - Global Engineering Education Panel and Technical Parallel Sessions

Day 3 – July 27 (Wednesday)

06:00 – 07:45 am – Virtual Technical – Zoom Rooms 1-6
08:00 - 09:30 am - Industry Solutions and Parallel Sessions - Onsite Rooms A, B & C and Zoom Rooms 1-4
7:30 am – 5:00 pm – Onsite Registration - Grand Hotel Palatino
09:45 - 10:00 am - Networking Break
10:00 - 10:30 am - Keynote Speaker V: **Dr. Federica Caffaro**, Faculty in Work and Organisational Psychology, Department of Education, Roma Tre University, Rome, Italy
10:30 -11:00 am - Keynote Speaker VI: **Dr. Virgílio Cruz Machado**, Director / Dean, Nova School of Science and Technology | FCT NOVA, Universidade NOVA de Lisboa, Caparica, Portugal
11:00 - 11:40 am - Keynote Speaker VII: **Dr. Tomohiko Sakao**, Professor of Sustainable Product/Service Systems, Linköping University, Sweden
11:40 am - 12:20 pm -Keynote Speaker VIII: **Dr. Maria Antonella Ferri**, Dean, Economics and Business Management, Full Professor of Management, Universitas Mercatorum, Roma, Italy
12:20 - 01:00 pm - Keynote Speaker IX: **Matteo Balboni**, Sr. Engineering Manager | Quality Design | RCS, Medtronic, Mirandola, Italy
01:00 - 02:00 pm - Lunch at Grand Hotel Palatino
02:00 - 03:45 pm - Industry Solutions and Technical Parallel Sessions
04:00 - 05:45 pm - Industry Solutions Panel and Technical Parallel Sessions

Day 4 – July 28 (Thursday)

06:00 – 07:45 am – Virtual Technical – Zoom Rooms 1-6
7:30 am – 5:00 pm – Onsite Registration - Grand Hotel Palatino
08:00 - 09:30 am - GSCM and Parallel Sessions - Onsite Rooms A, B & C and Zoom Rooms 1-4
09:45 - 10:00 am - Network Break
10:00 - 10:20 am - Conference Chairs Remarks
10:20 -11:00 am - Keynote Speaker X: **Raphael Grzebieta, PhD**, Emeritus Professor (Road Safety), Transport and Road Safety (TARS) Research Centre, School of Aviation, University of New South Wales, Sydney, Australia
11:00 - 11:40 am - Keynote Speaker XI: **Dr. Juan Jesus Perez**, Full Professor of Physical Chemistry, Universitat Politècnica de Catalunya (UPC), Barcelona, Spain
11:40 am - 12:20 pm -Keynote Speaker XII: **Luz María Valdez de la Rosa, Ph.D.**, Profesora del Departamento de Ingeniería Civil y Gestión, Escuela de Ingeniería y Tecnologías, Universidad de Monterrey, Mexico
12:20 - 1:00 pm - Keynote Speaker XIII: **Salvatore GIUA**, Head of MEP & Safety for Design & Built Activities, SYSTRA SWS, Rome, Italy and Chairman of the Italian Technical Committee 4.4 “Tunnels” of the World Road Association
01:00 - 02:00 pm – Lunch at Grand Hotel Palatino
02:00 - 03:45 pm – Plenary, GSCM and Technical Parallel Sessions
04:00 - 05:45 pm – GSCM, GMBE, Diversity and Inclusion Panel and Technical Parallel Session
7:30 - 10:00 pm - Conference Awards Dinner - Grand Hotel Palatino

Keynote Speakers – Ballroom (Room 1)

Tuesday, July 26, 2022

Conference Welcome and Opening: Tuesday, July 26, 2022, 10:00 – 10:20 am



Dr. Giulio di Gravio

Full Professor at the Department of Mechanical and Aerospace Engineering
Coordinator of the PhD course in Industrial and Management Engineering
Sapienza – University of Rome
Rome, Italy

Giulio di Gravio is a Full Professor at the Department of Mechanical and Aerospace Engineering of Sapienza University of Rome. He is a lecturer of Operations and Quality Management for BSc and MSc courses in Mechanical and Management Engineering and the Coordinator of the PhD course in Industrial and Management Engineering. His research activity mainly focuses on the analysis and evaluation of business performance, supply chain and business strategy, simulation and expert systems for operations management (production, logistics, maintenance), investment analysis of industrial systems, compliance & risk management, and resilience engineering.

Opening Keynote I: Tuesday, July 26, 2022, 10:20 – 11:00 am



Dr. Alexandre Dolgui

Editor-in-Chief, International Journal of Production Research
Distinguished Professor
Head of Department Automation, Production and Computer Sciences
IMT Atlantique
Nantes, France

Dr. Alexandre Dolgui is an IISE Fellow, Distinguished Professor and the Head of Automation, Production and Computer Sciences Department at the IMT Atlantique, France. His research focuses on manufacturing line design, production planning and supply chain optimization. His main results are based on the exact mathematical programming methods and their intelligent coupling with heuristics and metaheuristics algorithms. He is the co-author of 5 books, the co-editor of 25 books or conference proceedings, the author of 270 refereed journal papers, 4 prefaces of books, 31 editorials and 37 book chapters as well as over 400 papers in conference proceedings. He is the Editor-in-Chief of the International Journal of Production Research, an Area Editor of Computers & Industrial Engineering, past Associate Editor of International Journal of Systems Science (2005-2008), IEEE Transactions on Industrial Informatics (2006-2009) and Omega-the International Journal of Management Science (2009-2012), consulting Editor of the International Journal of Systems Science (2009-). He is Member of the Editorial Boards for 27 other journals, including the International Journal of Production Economics. He is an Active Fellow of the European Academy for Industrial Management, Member of the Board of the International Foundation for Production Research, former Chair of IFAC TC 5.2 Manufacturing Modelling for Management and Control (2011-2017, currently a vice chair), Member of IFIP WG 5.7 Advances in Production Management Systems, IEEE System Council Analytics and Risk Technical Committee, Guest editor of special issues of European Journal of Operational Research, International Journal of Production Research, International Journal of Production Economics, Omega – The International Journal of Management Science, Journal of Intelligent Manufacturing, Journal of Mathematical Modeling and Algorithms, and Annual Reviews in Control; he was General Scientific Chair of the 12th IFAC symposium INCOM'06, and IFIP APMS'2021, Chairman of International Program Committee of SCM'02, MOSIM'04, INCOM'09, INCOM'12, IESM'13, MIM'13, INCOM'15, IESM'17, GSC'18, MIM'19 and Chairman of Steering committee of MIM'16. Chairman of Organizing Committee of the International Conference MOSIM'01 and ROADEF'2011; last ten years, he was Member of Program Committees of over 200 International Conferences.

Keynote II: Tuesday, July 26, 2022, 11:00 – 11:40 am



Andrea Benfenati

Founder and Senior Management Consultant
Newconsulting Srls
Parma, Emilia-Romagna, Italy

Implementing ISO 9001 standard using lean six sigma tools

Andrea Benfenati is a seasoned and versatile professional with over 15 years of experience gained both in Italian and international companies, working in projects with great companies as Vodafone, BNL, Autogrill, H3G, Banca Aletti, SAI Sim, IES Italiana e Servizi, and also with smaller but agile companies throughout the Italian territory. He is the Founder of Newconsulting, a specialist consulting firm offering high-quality organization design and development services. At Newconsulting we help companies increase their efficiency and competitiveness hence, eventually, their revenues by streamlining their management processes; through our network of highly experienced professionals we can offer agile and pragmatic services able to support business leaders to make their change agendas come to life. Newconsulting operates in the area of organization design, process improvement, corporate governance, ISO standard implementation, compliance, providing also softwares to facilitate and implement all the activities. Throughout my career my focus has been on helping the organizations become more successful, supporting them to make the most of their combined capabilities and attributes. My passion is to face the challenge that change has on organizations and their people, working jointly with them, bringing my own perspective and experience to deliver real, lasting and sustainable benefits.

Industry expertise includes:

- Media & telecoms.
- Financial services.
- Information technology.
- Food & beverage.
- Constructions.
- Manufacturing.

Key Skills:

- ISO 27001, ISO 20000, ISO 22301, ISO 9001 Standard implementation.
- Organizational design, operating model construction, continuous improvement.
- Process development and improvement.
- Corporate governance and global strategy.
- Project management.
- Lean six sigma.
- Business Development.
- Operational Excellence.
- GDPR.

Keynote III: Tuesday, July 26, 2022, 11:40 am – 12:20 pm

Prof. Dr. Tirta Nugraha Mursitama, PhD
 Vice Rector of Research and Technology Transfer
 Bina Nusantara University
 Indonesia



Tirta Nugraha Mursitama is a full professor in International Business Management. He is the Vice Rector of Research and Technology Transfer, Bina Nusantara University. He received his bachelor's degree from the Department of International Relations, University of Indonesia, in 1999. He then received his master's degree in 2004 and doctorate in 2007, both in management, from the Graduate School of Management, Gakushuin University, Tokyo, Japan. He also obtained his second doctorate degree in international political economy from Padjadjaran University, Bandung, Indonesia in 2016. He is an active member of Academy of International Business (AIB).

Prof. Tirta has published numerous articles in international journal such as Asia Pacific Journal of Management, Journal of International Studies, Economics and Sociology, International Journal of Civic, Political, and Community Studies, Pertanika Journal of Social Sciences and Humanities and others. He was a visiting fellow at the School of Marketing, Management and International Business, Australian National University in September-November 2011. He also has been a visiting scholar at Cheng Shiu University Taiwan, and the College of Economics and Management Fujian Normal University China, and a Short-Term Visiting Scholar at Budapest Business School, Hungary. Currently, he is the Editor-in-Chief of the Journal of ASEAN Studies (JAS), indexed by Scopus and published by the Center for Business and Diplomatic Studies (CBDS) Department of International Relations, Bina Nusantara University and Research and Technology Transfer Office at Bina Nusantara University.

Keynote IV: Tuesday, July 26, 2022, 12:20 – 1:00 pm

Franco Megali
 VP and CEO Italy, Israel and Greece
 Siemens Industry Software S.r.l.
 Global Sales & Customer Success, Milano, Italy



Franco Megali has been in the manufacturing market for over 35 years.

He started his career in Brescia at Comser, Finbrescia group. Then he moved to Milan, where he worked at Intergraph Italia. In 1991 he joined McDonnell Douglas Information System which became EDS Unigraphics and UGS and finally Siemens Digital Industry Software after the acquisition of Siemens in 2007, with the current role of Italy CEO. Thanks to its profound knowledge of products and processes in the manufacturing industry, he achieved excellent results in the most important Italian manufacturing industries, in particular the Automotive & Transportation, Aerospace & Defense and Machinery sectors. Graduate in Mechanical Engineering at the University of Brescia, Franco Megali holds a Master in Business Administration (MBA) from Bocconi University in Milan in 1990.

Wednesday, July 27, 2022



Keynote V – Wednesday, July 27, 2022, 10:00 – 10:30 am

Dr. Federica Caffaro
Faculty in Work and Organisational Psychology
Department of Education
Roma Tre University
Rome, Italy

Federica Caffaro is a Psychologist and a PhD in Applied Psychology and Ergonomics. She is an assistant professor in Work and Organisational Psychology at the Department of Education, Roma Tre University, Italy. Her research interests primarily lie in occupational safety and health in the human-machine interaction, drivers of innovation adoption for sustainable organizations and the use of new technologies for workplace education and training. All these topics are investigated through an ergonomic user-centred perspective to promote workers' well-being and optimize the performance of the work systems.

Keynote VI: Wednesday, July 27, 2022, 10:30 – 11:00 am



Prof. Virgílio Cruz Machado
Director / Dean, Nova School of Science and Technology | FCT NOVA
Universidade NOVA de Lisboa
Caparica, Portugal

Prof. V. Cruz-Machado is currently a Full Professor of industrial engineering at and Dean of NOVA School of Science and Technology, Universidade Nova de Lisboa, Caparica, Portugal. He coordinates post-graduate programs in industrial engineering, project, and lean management. He teaches operations and production management and has published more than 150 papers in scientific journals and conferences, in addition to having supervised 50 M.Sc. and Ph.D. students. His main scientific activities are directed to the design of lean supply chains. Dr. Cruz-Machado is the president of UNIDEMI (R&D Unit in Mechanical & Industrial Engineering). He received the Ph.D. degree in computer-integrated manufacturing from Cranfield University, Bedfordshire, U.K.

Keynote VII: Wednesday, July 27, 2022, 11:00 – 11:40 am



Dr. Tomohiko Sakao
Professor of Sustainable Product/Service Systems
Linköping University, Sweden

Keynote Title: Engineering systemic changes towards circular economy

Tomohiko Sakao is Professor in Ecodesign and Integrated Product Service Engineering at the Division of Environmental Technology and Management, Department of Management and Engineering, at Linköping University (LiU) in Linköping, Sweden. He stayed at the Institute for Product Development and Machine Elements at the Darmstadt University of Technology in Darmstadt, Germany between 2005 and 2007. Dr. Sakao joined LiU as the Swedish engineers' (Sveriges Ingenjörer) Environmental Professor in 2007 and have been active in both carrying out projects with industry and publishing academic articles. He is one of the scholars that have published highest numbers of relevant articles in the area of product/service system worldwide, which is clear evidence of

his academic influence and expertise in the field. Since 2016, he has been elected as Associate Member of CIRP (The International Academy for Production Engineering). After studying at the University of Tokyo, Dr. Sakao worked at Mitsubishi Research Inst., Inc. in Tokyo for 8 full years, where he gained valuable industry experience before beginning his academic career.

Keynote VIII: Wednesday, July 27, 2022, 11:40 am – 12:20 pm



Dr. Maria Antonella Ferri
Dean, Economics and Business Management
Full Professor of Management
Universitas Mercatorum
Roma, Italy

Maria Antonella Ferri is Chief and Full Professor of Management at the Universitas Mercatorum, where she teaches Strategy, Marketing and Management. She got a PhD in Business Management at The University Ca' Foscari of Venice; she became a researcher at the University of Rome 'La Sapienza' and then Associate Professor at the Parthenope University of Naples. She is interested in strategic sustainability, social responsibility, business model and marketing plan. She published several books and articles on these items in many international journals such as the TQM Journal, Journal of Business Research, Mercati e Competitività, Italian Journal of Marketing

Keynote IX: Wednesday, July 27, 2022, 12:20 – 1:00 pm



Matteo Balboni
Sr. Engineering Manager | Quality Design | RCS
Medtronic
Mirandola, Italy

Matteo holds a master's degree in Physics. He has 15 years of experiences on Product Quality for healthcare industries, primary dialysis treatment and Pharma. In the last 5 year he is working as Sr. quality engineering Manager at Bellco an Italian Company acquired by Medtronic.

Thursday, July 28, 2022

Conference Chair Remarks – Thursday, July 28, 2022, 10:00 – 10:20 am

Keynote X: Thursday, July 28, 2022, 10:20 – 11:00 am



Raphael Grzebieta, PhD
Emeritus Professor (Road Safety), Transport and Road Safety (TARS) Research Centre
School of Aviation, University of New South Wales
Sydney, Australia

Topic: **Occupational Safety and Health (OSH)**

Raphael graduated in 1979 with BE (Hons) and M.Eng.Sci. degrees from Krakow Technical University, Poland and a PhD in 1991 from Monash University, Australia. He is Emeritus Professor of Road Safety within the Transport and Road Safety (TARS) Research Centre (previously the NSW Injury Risk Management Research Centre (IRMRC)) at the University of New South Wales (UNSW) and was the IRMRC's Acting Director in 2008. He is also an Adjunct Professor in the Department of Forensic Medicine at Monash University and the Victorian Institute of Forensic Medicine located at the Victorian Coroner's Court Precinct. He was previously in the Department of Civil Engineering at Monash University for 25 years, where as an Associate Professor he headed up Civil Engineering's road-safety, crashworthiness and rapid loading research team and supervised numerous PhD, Masters and project

students. He has over 350 publications in structural crashworthiness research, accident investigation, road safety, road and infrastructure design, injury causation and biomechanics, ambulance crashworthiness, failure analysis, numerical modelling and experimental testing of a variety of structures subjected to impact and large deformation loads.

He has carried out over 200 in-depth crash investigations and accident reconstruction analyses, providing expert reports and evidence in court. His latest cases have been for the Queensland, NSW, Victorian and New Zealand Coroners, NSW and Victorian Departments of Public Prosecutions, NSW Police, Victoria Police and Victorian WorkCover Authority as well as a number of cases for the CTP Insurers. He has also been involved and worked on major road safety projects (includes one or all of Safer Vehicles, Safer Roads, Safer People and Safe Speeds analyses, advice and reports) for: Cargill Worldwide in Indonesia; Pan Aust Mining in central Laos; BHP-Escondida Mine in Chile; World Bank under contract to the Romanian Ministry of Transport and the Lithuanian Ministry of Transport; United Nations and the Kuwait Ministry for Transport; Australian Defence Department; SafeWork NSW; WorkCover Victoria; VicRoads; Telstra; and a number of private Engineering firms.

The university research team he headed up at Monash carried out numerous crash tests, computer crash modelling and theoretical studies investigating and mitigating injuries in truck under-run, far-side impact, rollover, roadside barrier crashes and industrial work places. Raphael has supervised/co-supervised to completion 17 PhD and 4 MEngSci students in the area of vehicle crashworthiness, injury biomechanics, rapidly loaded and grossly deforming steel structures and truck safety. He developed and taught the most rigorous and theoretically demanding subjects in Civil Engineering for over 20 years. His research work attracted around \$8 million in Australian Research Council and Australian National Health and Medical Research Council grants and a further \$4 million in other university based contract research work.

Raphael was the past President of the Australasian College of Road Safety. He is also a member of a number of road safety, editorial, journal and standards committees. Raphael is regularly interviewed by radio and TV media and has appeared in science programs in relation to road safety and crash testing. He has also chaired a number of international conferences and given numerous invited public lectures and keynote papers. His international network in vehicle and roadside crashworthiness is extensive. Raphael was awarded the 2003 Warren Medal by the Institution of Engineers Australia, as co-author of the papers "Crashworthiness Systems – A Paradigm Shift in Road Safety Design", Parts I & II. He was also awarded in 2007 Fellow of the Australasian College of Road Safety in recognition of his exceptional international service to road safety. He was awarded the 2019 Kenneth Stonnex Award for his 30-year career improving safety for road users by the US National Academies of Sciences, Engineering and Medicine's Transportation Research Board's (TRB's) Roadside Safety Design Committee AFB20, is given to engineers and road safety experts who have dedicated their career to advancing transportation infrastructure and making roads safer. More recently he was awarded the Australian Road Research Board's (ARRB) national transport research organisation's 2019 Lifetime Research Award and Engineers Australia Sir John Holland Civil Engineer of the Year Award for 2020 in recognition of his outstanding achievements in Civil Engineering.

Keynote XI: Thursday, July 28, 2022, 11:00 – 11:40 am

Dr. Juan Jesus Perez
 Full Professor of Physical Chemistry
 Department of Chemical Engineering
 School of Engineering (ETSEIB)
 Technical University of Catalonia
 (Universitat Politècnica de Catalunya, UPC)
 Barcelona, Spain

Professor Juan Jesus Perez, after obtain his Ph.D. degree in computational chemistry by the Universidad de Barcelona he has carried out postdoctoral positions in the University of Manchester, UK; Max-Planck Institut für Physik in Garching bei München, Germany. He has also served as visiting Scientist at the IBM Laboratories in Kingston, New York, between 1987 and 1988 and as Senior Researcher in Molecular Research Institute of Palo Alto, California, between 1991 and 1994. Presently he is Full Professor of Physical Chemistry at the Department of Chemical Engineering of the Technical University of Catalonia (Universitat Politècnica de Catalunya, UPC) at the School of Engineering (ETSEIB) since 1984. He has served as deputy director for international relations at the School of Engineering during the period 1999 to 2002, working to promote the internationalization of the curricula of Mechanical and Chemical Engineers. From 2002 to 2006 he was vice-rector of research, doctoral studies and international relations. Author of more than 150 articles in specialized journals his research interest range from molecular engineering to sustainable development, engineering curricula development and university policy.

Keynote XII: Thursday, July 28, 2022, 11:40 am – 12:20 pm

Luz María Valdez de la Rosa, Ph.D.
 Profesora del Departamento de Ingeniería Civil y Gestión
 Escuela de Ingeniería y Tecnologías
 Universidad de Monterrey
 Monterrey, NL, Mexico

Luz María Valdez de la Rosa is a professor of Engineering Department at School of Engineering and Technologies at University of Monterrey (UEM). She has been in the academic field for more than 15 years, as a Director of Engineering Management and Industrial Engineering Bachelor Academic Programs and as a teacher at UEM, in the state of Nuevo Leon, Mexico. She earned a B.S. in Industrial Engineering and Systems and master's in quality management at University of Monterrey, Mexico, and Ph. D. in Administration Sciences from the Autonomous University of the State of Nuevo Leon, Mexico. She has 18 years of experience in the Quality field and 13 years as a higher education teacher. She has participated as consultant for the manufacturing and services in the quality field and participated as ASQ and IISE member.

Keynote XIII: Thursday, July 28, 2022, 12:20 – 1:00 pm

Mr. Salvatore GIUA
 Head of MEP & Safety for Design & Built Activities
 SYSTRA SWS, Rome, Italy
 Chairman of the Italian Technical Committee 4.4 "Tunnels" of the World Road Association

Salvatore Giua is a mechanical engineer with over 30 years of experience as a leader and coordinator of large infrastructure projects. He has an excellent knowledge of road safety, risk management and electromechanical plant engineering and tunnel automation, such as ventilation, lighting, fire prevention and other safety systems. He is a safety auditor with great experience in the design and safety supervision of tunnels and underground works in general. He often holds the "Third Expert" role for newly built or upgraded tunnels along with the Trans European Road Network (TERN). Since 2020 he has held the position of Head of MEP&Safety Department at SYSTRA SWS/SYSTRA ITALY and manages Design&Build projects for subways, roads and railway tunnels worldwide.

Salvatore Giua has been a member of the PIARC Italian Technical Committee on road tunnels since 1996 and was Vice-Chair from 2000 to 2004. Currently (2016-2023) he is the Chairman of the Italian Technical Committee D4.4 "Tunnels" and represents Italy within the corresponding International Technical Committee. At the level of the International Technical Committee 4.4 "Tunnel", he is the Leader of the Task Force on the "Road Tunnel Manual" and participates as a representative of Italy in the "DG-QRAM" Task Force for the updating of the risk analysis SW for the transport of dangerous goods in road tunnels. Since 2017 he is a member of the Board of Directors of PIARC Italia (2017-2024).

Plenary Speakers

Tuesday, July 26, 2022

Plenary I

8:00 – 9:30 am, Room A (Onsite) - Ballroom

Session Chair: Dr. Riccardo Patriarca

Speaker I – 8:00 – 8:30 am



Dr. Sunil Tiwari
Associate Professor
Department of Operations Management & Decision Science
ESSCA School of Management
Lyon, France

Dr. Sunil Tiwari is an Associate Professor of Supply Chain Management at ESSCA School of Management. He has a doctorate in Operations and Supply Chain Management from the Department of Operational Research, University of Delhi, INDIA. Prior to joining ESSCA School of Management, he worked as a Senior Research Fellow & Research Fellow in the Department of Industrial Systems Engineering & Management, National University of Singapore (2019-21), and as a Research Fellow & Project Lead in The Logistics Institute – Asia Pacific, National University of Singapore (2017-19). He also worked as an Assistant Professor (Adjunct) in the Department of Mathematics, Ambedkar University, Delhi (2016-17). During his tenure at the National University of Singapore, he led several industrial projects related to the optimization of Supply Chain & Logistics Operations, Healthcare Operations, Warehouse Operations, and E-commerce Logistics by proposing innovative and intelligent methods to enhance effectiveness and efficiency, which requires a large degree of stakeholder management and project management skills. Through his research and project works with various industries, he has established an effective relationship with different stakeholders and Researchers. Dr. Sunil research interests include supply chain management, inventory management, and simulation-based optimization. Recently, his research work has focused on healthcare operations, warehouse operations analysis & optimization, and E-commerce Logistics. His research work has been published in several journals including European Journal of Operational Research, International Journal of Production Economics, Annals of Operations Research, International Journal of Production Research, Computer & Operations Research, Computers & Industrial Engineering, amongst others.

Speaker II – 8:30 – 9:00 am



Dr. Tommaso Rossi
Full Professor
Director of Lean Club & i-FAB
LIUC – Università Cattaneo
Castellanza, Varese, Italy

Dr. Tommaso Rossi is full professor of Operations Management at the School of Industrial Engineering of Università Carlo Cattaneo – LIUC. He is also director of i-FAB the lean and Industry 4.0 model factory of LIUC. His research interests deal with lean manufacturing, Industry 4.0, and modelling and simulation of complex production and logistics systems. On these topics, he led many industrial projects with national and international companies and coordinates the activities of the operations management research group of LIUC.



Dr. Rossella Pozzi
Assistant Professor of Operations Management
School of Industrial Engineering
LIUC University
Castellanza, Varese, Italy

Dr. Rossella Pozzi is assistant professor of Operations Management at the School of Industrial Engineering of Università Carlo Cattaneo – LIUC. She is researcher and lecturer with 10+ years of experience in the operations management field. Her research interests are related to lean manufacturing, Industry 4.0, and mathematical and optimization models applied to operations management problems. Regarding lean manufacturing and Industry 4.0, her recent interest is in the relationship between these two paradigms and how to teach them to industrial engineers. She also led many industrial projects on these topics with national and international companies operating in various industries and coordinates the activities of Lean Club of LIUC Business School.

Speaker III – 9:00 – 9:30 am

Dr. Riccardo Patriarca
Tenure Track Assistant Professor
Resilience Engineering | Forbes 30u30 EU
Sapienza Università di Roma
Rome, Latium, Italy

Plenary II

July 27, Wednesday, 8:00 – 9:30 am, Room A (Onsite) - Ballroom

Session Chair: Dr. Andrea FALEGNAMI

Speaker IV – 8:00 – 8:30 am

Speaker V – 8:30 – 9:00 am

ID 468 Analysis of Work-Related Accidents in Italian Landfills

Mara Lombardi, Francesca Mauro and Quintilio Napoleoni, Sapienza - University of Rome, Italy

Mario Fargnoli, Universitas Mercatorum, Rome, Italy

Simona Berardi, Italian Institute for Insurance against Accidents at Work (INAIL), Rome, Italy

Speaker VI – 9:00 – 9:30 am



Prof. Andrea D'Ariano

Associate Professor, Department of Engineering
Roma Tre University, Rome, Italy

Andrea D'Ariano received the B.S. and M.S. degrees in Computer Science and Automation Engineering at Roma Tre University. In November 2003, he joined TRAIL Research School and Department of Transport and Planning, Faculty of Civil Engineering and Geosciences, Delft University of Technology. In April 2008, he successfully concluded his Ph.D. studies under the supervision of Prof. I.A. Hansen. In 2018, he got the Full Professor Italian scientific habilitation in Operations Research and Transportation Science. He served as expert for European Commission and numerous national research foundations. He is now working as Associate Professor at Department of Engineering, Roma Tre University. He is currently coordinating the AIRO (Italian Association of

Operations Research) Chapter on "Optimization in Public Transport and Shared Mobility". He is also Associate Editor of well-known international journals (including Transportation Research Part B,C,E). His main research interest is the study of scheduling and routing problems with application to public transport & logistics.

Plenary III

July 28, Thursday, 8:00 – 9:30 am, Room 1 (Onsite) - Ballroom

Session Chair: Leonardo Ramos Rodrigues, Electronics Division, Institute of Aeronautics and Space, São José dos Campos - SP, Brazil

Speaker VII – 8:00 – 8:30 am

ID 437 Analyzing the CO2 Emissions and Fuel Consumption of Light-duty Vehicles

Behzad Maleki Vishkaei, and Pietro De Giovanni, Department of Business and Management, LUISS University, Rome, Italy

Speaker VIII – 8:30 – 9:00 am

ID 295 A Hybrid Bio-Inspired Metaheuristic Applied to PID Controller Parameter Tuning

Leonardo Ramos Rodrigues, Electronics Division, Institute of Aeronautics and Space, São José dos Campos - SP, Brazil

João Paulo Pordeus Gomes, Department of Computer Science, Federal University of Ceará, Fortaleza - CE, Brazil

Speaker IX – 9:00 – 9:30 am

ID 230 An analysis of Sentiments of Tweets about Patents

Alptekin Durmuşoğlu, Associate Professor, Department of Industrial Engineering, Gaziantep University, Gaziantep, Turkey

Zeynep Didem Unutmaz Durmuşoğlu, Associate Professor, Department of Industrial Engineering, Gaziantep University, Gaziantep, Turkey

2:00 – 3:45, THURSDAY

Plenary IV

Onsite Room A

Session Chair: Damithri Gayashini Melagoda, The University of Hong Kong, Hong Kong SAR, China

2:00 pm – 2:20 pm (Thursday, July 28)

ID 516 Wrist Deviation influence on Initial Hand Force before wheelchair propulsion Using Digital Human Modeling

Osama T. Al Meanazel, Associate Professor, Industrial Engineering Department, Faculty of Engineering, The Hashemite University, Jordan

Mazen H. Obeidat, Associate Professor, Industrial Engineering Department, Faculty of Engineering, The Hashemite University, Az Zarqa, Jordan

Suliman Obeidat, Associate Professor, Industrial Engineering Department, Faculty of Engineering, The Hashemite University, Az Zarqa, Jordan

Hesham Ahmad Al-Momani, Associate Professor, Industrial Engineering Department, Faculty of Engineering, Hashemite University, Jordan

Mohammad M. Hamasha, Associate Professor, Industrial Engineering Department, Faculty of Engineering, The Hashemite University, Jordan

2:30 pm – 3:00 pm (Thursday, July 28)

ID 260 Collective Mindfulness: A Dimension of Construction Safety Climate

Damithri Gayashini Melagoda and Steve Rowlinson, Department of Real Estate and Construction, Faculty of Architecture, The University of Hong Kong, Hong Kong SAR, China

3:00 pm – 3:30 pm (Thursday, July 28)

Panel Sessions

Women in Industry and Academia (WIIA) Panel

Tuesday, July 26, 2022, 2:00 – 3:45 pm
Room A (Onsite)

Panel Chair



Dr. Silvia COLABIANCHI
Industrial and Management Engineering
Sapienza-University of Rome, Rome, Italy

Silvia Colabianchi is a researcher in Industrial and Management Engineering at Sapienza University of Rome. Her PhD project focused on industrial cybersecurity. The project underlines humans' role in cybersecurity socio-technical systems, investigating in which part humans are a threat or an opportunity for industrial cybersecurity. Her recent projects involved computer vision techniques, conversational agents, and virtual reality to improve industrial production in the smart factory context. In 2022, she has worked on a vision-based automated quality inspection tool to detect defects on plastic. She is currently working on incorporating enabling technologies for Industry 4.0 from a positive human-machine collaboration perspective. Specifically she is implementing a conversation agent for operational and safety training in the smart factory.

Panel Speakers



Dr.-Ing. Professor Susana Duarte
Assistant Professor of Industrial Engineering
School of Science and Technology of the Universidade Nova de Lisboa, Portugal
Lisboa, Portugal

Susana Duarte holds a Ph.D. in Industrial Engineering. Presently she is an Assistant Professor of Industrial Engineering at School of Science and Technology of the Universidade Nova de Lisboa, Portugal. She lectures several courses on topics related to industrial engineering including, production management, industrial management and strategy, industrial engineering, logistics, decision models, among others. She is a research member of UNIDEMI Research Center where develops their investigation in the area of lean manufacturing, green management, lean-green supply chain, and performance measurement systems. She has published scientific papers in several international refereed journals and international conference proceedings. She was awarded Excellence Award from Emerald Group Publishing, a Teaching Excellence Award from IEOM society and three awards from International Conferences. She is a member of the board of the Portuguese Institute of Industrial Engineering.



Valentina Bianchi
DSP Manager in Amazon Logistic

Dr. Valentina Bianchi is DSP Manager in Amazon Logistic, in her role she manages and coordinate delivery service providers who collaborate with Amazon Logistic. She studied at the Sapienza University in Rome and graduated in Management Engineering with Industrial Production Management option. Her interest is on integrated logistic process and production development, Resilience Engineering and his application in healthcare environment. After a short period in a Technology consultant company, she joined Johnson and Johnson Medical as Supply Chain Analyst and Demand Planner. In this role she has the opportunity to deepen supply chain and logistic processes and apply inventory management principles. She managed many optimization projects as implementation of lean return procedure to the supplier and creation of integrated process for physical scrap of unsuitable goods.



Luz María Valdez de la Rosa, Ph. D.
Profesora del Departamento de Ingeniería Civil y Gestión
Escuela de Ingeniería y Tecnologías
Universidad de Monterrey
Mexico

María Valdez de la Rosa is a professor of Engineering Department at School of Engineering and Technologies at University of Monterrey (UEM). She has been in the academic field for more than 15 years, as a Director of Engineering Management and Industrial Engineering Bachelor Academic Programs and as a teacher at UEM, in the state of Nuevo Leon, Mexico. She earned a B.S. in Industrial Engineering and Systems and master's in quality management at University of Monterrey, Mexico, and Ph. D. in Administration Sciences from the Autonomous University of the State of Nuevo Leon, Mexico. She has 18 years of experience in the Quality field and 13 years as a higher education teacher. She has participated as consultant for the manufacturing and services in the quality field and participated as ASQ and IISE member.

Saltanat Akhmadi

Engineering Management Program
School of Engineering and Digital Sciences
Nazarbayev University, Nur-Sultan, Kazakhstan

ID 335 Women and innovation: The missing link

Mariza Tsakalerou and Saltanat Akhmadi, Engineering Management Program, School of Engineering and Digital Sciences, Nazarbayev University, Nur-Sultan, Kazakhstan

Global Engineering Education Panel

Tuesday, July 26, 2022, 4:00 – 5:45 pm
Room A (Onsite)

Panel Chair



Dr. Patrick Dallasega

Assistant Professor in Factory Planning and Project Management
Free University of Bolzano, Italy

Patrick Dallasega is an Assistant Professor of Factory Planning and Project Management at the Faculty of Science and Technology of the Free University of Bolzano (Italy). He studied at the Free University of Bolzano (Italy), at the Polytechnic University of Turin (Italy) and got his PhD at the University of Stuttgart (Germany). From 2005 until 2010, he worked in the fields of plant and factory planning in a local food processing industry. Later, from 2012 until 2015, he was employed as Research Associate at Fraunhofer Italia Research where he managed and executed several research projects for private and public customers. Since 2016, he has been employed as Assistant Professor at the Free University of Bozen-Bolzano. His main research interests are in, supply chain management, Industry 4.0, lean construction, lean manufacturing and production planning and control in MTO and ETO enterprises.

Panel Speaker I



Priv.-Doz. Dr.-Ing. Fazel Ansari

Head – Research Group Smart and Knowledge-Based Maintenance, TU Wien
Digitalization and Competence Management, Fraunhofer Austria
Austria

Fazel Ansari is Head of Research Group “Smart and Knowledge-Based Maintenance” at the Vienna University of Technology (TU Wien) since 2018. He also leads Fraunhofer Austria's Group of “Digitalization and Competence Management”, since 2021. Fazel obtained his Habilitation degree in Industrial Engineering at the TU Wien and his summa cum laude PhD in computer science from the University of Siegen, in the specialization of knowledge-based systems and knowledge management. He holds a M.Sc. degree in Mechatronics from University of Siegen and B.Sc. in Mechanical Engineering from University of Tehran. Fazel is an interdisciplinary researcher conducting fundamental- and applied-oriented research at the intersection of AI, industrial engineering and production management. His research focuses specifically on Human-centred Cyber Physical Production Systems, operations and maintenance management, knowledge management 4.0 and Industrial AI. Fazel is engaged in several international scientific associations, namely as an IEEE Senior Member, member of IFAC's Technical Committee 5.2 “Management and Control in Manufacturing and Logistics”, and member of Scientific Committee and Head of

Working Group “Work-Based Learning” at the International Association of Learning Factories (IALF).

Panel Speaker II



Corina Pacher

Education Project Manager
Graz University of Technology
Austria

Corina Pacher is an Education Project Manager at the Life Long Learning Department at Graz University of Technology. She is mainly responsible for the project management of European projects, support in the development and expansion of CVET offers, and development of didactic concepts. She studied pedagogical and educational science at the University of Klagenfurt (Austria) with a specialization on social and inclusive education (master's degree) and on professional education (master's degree). Currently, Ms. Pacher is conducting her PhD in the field of profiling competence profiles for European Industrial Engineering and Management (IEM) curricula. During and after her studies, she gained work experience, e.g., as Head of educational programs and in different social public service enterprises as a social education worker. Currently, she is mainly focusing on raising the awareness for engineering education 4.0 by connecting research, education, and society.



Dr. Manuel Woschank

Deputy Head – Chair of Industrial Logistics
Montanuniversitaet Leoben
Austria

Manuel Woschank received a Ph.D. in Management Sciences with summa cum laude from the University of Latvia (Latvia) and the Habilitation in Industrial Engineering and Management from the Montanuniversitaet Leoben (Austria). He is currently Deputy Head of the Chair of Industrial Logistics at the Montanuniversitaet Leoben and an Adjunct Associate Professor at the Faculty of Business, Management, and Economics at the University of Latvia. He was a visiting scholar at the Technical University of Kosice and the Chiang Mai University. His research interests include the areas of production planning and control, logistics 4.0 concepts and technologies, behavioral decision making, and engineering education.

Transition to Human-Centric and Resilient Manufacturing Panel

Wednesday, July 27, 2022, 4:00 – 5:45 pm
Room A (Onsite)

Proposal for Panel discussion:

- Welcome and introduction in the topic by Panel Chair – 10 min
- Impulse talk by Dr. Kerstin Johansen about experiences of the Swedish research project “RaSP – Resilient and Sustainable Production” – 20min
- Questions and answers to speaker – 10 min

- Discussion round with 4 panel speakers moderated by panel chair – 65min (each speaker 2 questions with ~5min answer + questions from the audience)
- Closure by panel chair – 5min

Panel Chair

**Dr. Erwin Rauch**

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

Erwin Rauch is an Assistant Professor in Manufacturing Technology and Systems at Free University of Bolzano, Italy. He received his BSc in Logistics and Production Engineering from the Free University in Bolzano (Italy). He also holds an MSc in Mechanical Engineering from the Technical University Munich (TUM) and a Master in Business Administration from the TUM Business School. Since 2007, he worked in a Management Consultancy as a Consultant for Lean management. Later he obtained his PhD in Mechanical Engineering at the University of Stuttgart in Germany. Since 2014, he is Assistant Professor at the Free University of Bolzano and in 2017 Visiting Researcher at Worcester Polytechnic Institute (WPI) in Worcester, MA (USA). Further, he is Head of the Smart Mini

Factory laboratory for Industry 4.0 application at the Free University of Bolzano. His research interests include industry 4.0, smart and sustainable manufacturing and complex systems design.

Panel Speaker I

**Prof. Kerstin Johansen**

Senior Associate Professor
Project leader Resilient and Sustainable Production – Proactive greenfield and brownfield production development (RaSP)
Jönköping University
Sweden

Kerstin Johansen is Senior Associate Professor at Jönköping University and has more than 10 years of industrial experience. Kerstin is research leader of the Production Development Group in the Department of Industrial Product Development, Production and Design. Her research interest is on integrated product and production development, human-robot collaboration and sustainable manufacturing. She is project leader of the Swedish research project “RaSP – Resilient and Sustainable Production – Proactive greenfield and brownfield production development”. Dr Johansen joined Scientific Reports as an Editorial Board Member in 2021.

Panel Speaker II

**Dr. Susanne Vernim**

Member of the Management Board of the Institute for Machine Tools and Industrial Management (iwb)
Head of Department for Sustainable Production
Technical University of Munich (TUM)
Germany

Susanne Vernim is a member of the management board and Head of the Department for Sustainable Production at the Institute for Machine Tools and Industrial Management (iwb) at the Technical University of Munich (TUM). After two years in the automotive supplier industry, she started as a research associate at the iwb in 2014. In 2020 she finished her doctoral degree on the topic of workplace requirements for the assembly personnel in the digital transformation. Her current research interest focuses on human-centred manufacturing and Industry 5.0, the digitization of manufacturing workplaces, and the sustainable design and operation of manufacturing systems. Dr Vernim joined Scientific Reports as an Editorial Board Member in 2021.

**Dr. Emmanuel Francalanza**

Senior Lecturer
Head of Department of Industrial and Manufacturing Engineering
University of Malta, Malta

Emmanuel Francalanza is the Head of Department of Industrial and Manufacturing Engineering at the University of Malta. Before joining the University of Malta, he was employed by Methode Electronics Malta Ltd, an automotive switchgear OEM based in Malta, where he worked in the fields of both design and manufacturing. Dr Ing. Emmanuel Francalanza graduated with Honours in Mechanical Engineering from the University of Malta in 2005 and with an MSc in Integrated Product Development in 2008. His doctoral research involved the investigation of complex issues relating to supporting factory planners during the design of factories and their underlying manufacturing systems. His research interests range from the use of AI and collaborative robotics for smart and sustainable manufacturing,

to the application of design methods in product development.

Panel Speaker IV

**Dr. Matthias Wolf**

Assistant Professor
Deputy Head of Institute for Innovation and Industrial Management
Graz University of Technology, Austria

Matthias Wolf is an Assistant Professor in Industrial Engineering and Management at Graz University of Technology. He received his BSc in Mechanical Engineering, a MSc in Mechanical Engineering and Business Economics, and finished his doctoral degree in Industrial Engineering and Management at Graz University of Technology in 2020. Since 2021, he is an assistant professor and deputy head of the Institute of Innovation and Industrial Management. His research interests include industry 4.0, smart and sustainable manufacturing and complex systems design. His research interests include industry 4.0, human-centered work system design, Industry 5.0, green production, and engineering education with a focus on learning factories.

Diversity and Inclusion Panel Sponsored by Ford Motor Company

Thursday, July 28, 2022, 2:00 – 3:45 pm

Panel Chair



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

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

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

Panel Speakers



Professor Eldon G. Caldwell Marin, Ph.D., Sc.D, Dr.Ed. – IEOM President-Elect
 Professor, Industrial Engineering Department
 Engineering School
 University of Costa Rica
 San Jose, Costa Rica

Eldon Caldwell is full professor/Cathedraticus of the University of Costa Rica, Central America; member of the IEOM Society Academy of Fellows and member of the IEOM Society Global Council. Also, he has been recognized by the IEOM Society with the "Outstanding Service Award" for his career of over 30 years as an educator, researcher and promoter of development of industrial engineering and as "Distinguished Professor" by IEEE

Computer Society, USA.

Dr. Caldwell earned his B.Sc. and Master degree in Industrial Engineering at University of Costa Rica and he earned a Master degree in Service Marketing, as well in Financial Analysis at Interamerican University of Puerto Rico; M.Sc. Health Management Systems at UNED, Costa Rica and a M.Sc. Operations Management at ITESM, México. Finally, he earned three doctoral degrees: 1-Ph.D. in C.Sc. / Industrial Engineering, Autonomous University of Central America; 2- Ph.D. (Sc.D.) in Robotics and Automation, University of Alicante, Spain; and 3-Ph.D. (Dr. Ed.) in Education at the University of Costa Rica, developing the "Theory of Socio-educational Exergy-Anergy and Entropy".

He is author of many scientific articles and two books: "Marketing of Social Products & Services", UCR Publications; and "Lean Manufacturing: Fundamentals and techniques for cycle time reduction", Kaikaku Ins. Press, USA.

Dr. Caldwell served as Director of Industrial Engineering Department at Engineering School of University of Costa Rica, Operations Manager at MASECA, CA; Lean Manufacturing Project Manager at Eaton Corp. Costa Rica, General Manager at Quirós & Cia-Bandag Inc. and General Manager at Lean Systems Intl., USA. He has more than 30 years of experience as advisor and consultant in Operations Management, Lean Manufacturing and Lean Logistics at Interamerican Bank for Development, WHO, UN, World Wide Bank, Coca-Cola, Ministry of Health, Costa Rica, Honduras, Panamá, Costa Rican Institute for Electricity, RTC- Perú, Young Electrical Signs, Nevada, USA, AirCare Inc., Reno, Nevada, Plan International-Honduras, Bournes Co., DOLE Co. and many others. In addition, Dr. Caldwell currently serves as Director of the Central America Robotics and Industry 4.0 Challenge Contest (ROBOTIFEST) and General Manager at Kaikaku Institute Latin America.

Representatives from local organizing committee

Conference Committee

Conference Chairs

Dr. Mario Fargnoli (Chairman of the Committee)
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Technical Director, Italian Ministry of Agriculture, Rome, Italy

Prof. Mara Lombardi
Department of Chemical Engineering Materials Environment (DICMA)
Faculty of Civil and Industrial Engineering
Sapienza-University of Rome
Rome, Italy

Dr. Patrick Dallasega
Researcher – Assistant Professor
Industrial Engineering and Automation, Faculty of Science and Technology
Free University of Bozen-Bolzano
Bozen, Bolzano, Italy

Dr. Matteo Mario Savino
Professor, Industrial Operations and Industrial Management
University of Sannio
Benevento, Italy

Dr. Massimo GUARASCIO
Sapienza-University of Rome

Dr. Andrea FALEGNAMI
Sapienza-University of Rome

Dr. Silvia COLABIANCHI
Sapienza-University of Rome

Dr. Ahad Ali
Associate Professor
Director of Industrial Engineering Program
Lawrence Technological University
Southfield, Michigan, USA

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Prof. Massimo Tronci
Department of Mechanical and Aerospace Engineering
Faculty of Civil and Industrial Engineering
Sapienza – University of Rome
Rome, Italy

Prof. Francesco Costantino
Department of Mechanical and Aerospace Engineering
Faculty of Civil and Industrial Engineering
Sapienza University of Rome – Rome, Italy

Prof. Giulio Di Gravio
Department of Mechanical and Aerospace Engineering
Faculty of Civil and Industrial Engineering
Sapienza University of Rome – Rome, Italy

Dr. Riccardo Patriarca
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Program Chair
Professor Don Reimer, Director of Membership and Chapter Development,
IEOM Society

Organizing Committee
Prof. Stefano Scialla, Department of Engineering, Università Campus Bio-
medico di Roma, Italy

Conference Secretariat
Dr. Taufiqul Islam, Operations Manager, IEOM Society International

Track Chairs

Artificial Intelligence (AI)

Christoph Szedlak, University of Applied Sciences Koblenz, Faculty of
Operations Management, Koblenz, Germany

Automation and Control

Raúl Ramírez López, División de Estudios de Posgrado e
Investigación, Instituto Tecnológico de Querétaro, Mexico

Biomedical Devices and Systems

E.O. Ige, Department of Biomedical Engineering, Afe Babalola University, Ado
Nigeria

Business Analytics

Ufuk Cebeci, Department of Industrial Engineering, Istanbul Technical
University, Macka, 34367, Turkey

Business Management

Salma Elzarka, College of Management and Technology, Arab Academy for
Science, Technology and Maritime Transport, Alexandria, Egypt

Business Process Management and Digital Transformation

Jiri Tupa, University of West Bohemia

Case Studies

Deceree Anne A. Haboy, School of Industrial Engineering and Engineering
Management, Mapua University, Philippines

Construction Management

Rafiu Dimeji Seidu, School of the Built Environment and Architecture, London
South Bank University, 103 Borough Road, London, SE1 0AA, UK

Cybersecurity

Francesco Simone, Department of Mechanical and Aerospace Engineering,
Sapienza University of Rome, Via Eudossiana, 18 – 00184 Rome, Italy

Data Analytics and Big Data

Dr. Onur Dogan, Department of Industrial Engineering, İzmir Bakırçay
University, Turkey

Decision Sciences

Adel El Omri, Engineering Management and Decision Sciences, College of
Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar

Defense

Mohammed Maharroof, Engineering Management & Decision Sciences,
College of Science and Engineering, Hamad Bin Khalifa University (HBKU),
Education City, Qatar

Design

Prof. Leonardo Frizziero, Associate Professor, Department of Industrial
Engineering, Alma Mater Studiorum – Università di Bologna, Italy

Digital Manufacturing

Mohamed Gamal, Production Engineering Department, Faculty of Engineering,
Nahda University, Beni-Suef 62521, Egypt

E-Business and E-Commerce

Marvin I. Noroña, School of Industrial Engineering & Engineering
Management, Mapua University, Intramuros, Philippines

Energy

Ahmed M. Attia, Department of Systems Engineering, King Fahd University of
Petroleum & Minerals, Dhahran, Saudi Arabia

Energy and Resource Efficiency

Raid Al-Aomar, Master of Engineering Management, College of Engineering,
Abu Dhabi University, Abu Dhabi, UAE

Engineering Economy

Carlos Hernández, Universidad Austral de Chile

Engineering Education

Dr. Prof., Iryna Shvets, Vice-Rector for International Relations, Donetsk National Technical University, Pokrovsk, 85300 Ukraine

Engineering Management

Andile Mgudlwa, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

Entrepreneurship and Innovation

Prof. Stefano Scialla, Department of Engineering, Università Campus Bio-medico di Roma, Italy

Environmental Engineering

Sambasivam, Department of Environmental and Occupational Health, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia

ERP

Anitha Ravikumar, University of Technology and Applied sciences (HCT), Muscat, UAE

Facilities Planning and Layout

Marlene Brás, Department of Economics, Management, Industrial Engineering and Tourism, University of Aveiro, Aveiro, Portugal

Healthcare Systems

Susana Duarte, NOVA School of Science and Technology, Universidade NOVA de Lisboa, 2829-516 Caparica, Portugal

Human Factors and Ergonomics

Dr. Mario Fargnoli, Sapienza – University of Rome

Industrial Management

Fahmi Ramadhan Putra, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

Industry 4.0

Christoph Szedlak, Konrad-Zuse-Str. 1, Koblenz, Germany

Industry Solutions

Nathaniel Viandy Dondokambey, Industrial Engineering Department, Universitas Indonesia, Depok, Indonesia

Information Technology and Information Systems

Joel De Goma, School of Information Technology Department, Computer Science, Mapúa University, Makati, Philippines

Inventory Control

Youssef Boulaksil, UAE University Al Ain, Abu Dhabi, United Arab Emirates

IoT

Pratima Verma, Department of Information Management, College of Informatics, Chaoyang University of Technology, Taiwan, ROC

Knowledge Management

Sharmine Akther Liza, Ahsanullah University of Science & Technology, Dhaka, Bangladesh

Lean

Oludolapo Akanni Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

Logistics

Mahinthorn Pothiwan, Rajabhat Mahasarakham University, Thailand

Machine Learning

João Basto, INESC TEC – Technology and Science, Porto, Portugal

Manufacturing

Frederik Desplentere, Department of Materials Engineering, ProPoLiS research group, KU Leuven Bruges Campus, Bruges, Belgium

Mathematical Sciences

Md Haider Ali Biswas, Khulna University, Bangladesh

Mechatronics and Predictive Machinery Degradation

Shankar N V S, Vignan's Institute of Information Technology, India

Modeling and Simulation

Driss Ouazar, Equipe Analyse des systèmes hydrauliques (EASH), Ecole Mohammadia d'Ingénieurs, Mohammed V University of Rabat, Morocco

Operations Management

Dr. Naila Fares, Universitat Politècnica de València, Spain

Operations Research

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

Irina V. Burlakova, International Economy and Management Dept., Ural Federal University named after the first President of Russia B.N. Yeltsin, 19 Mira St., Ekaterinburg, 620002, Russia

Product Design and Development

Dr. Leonardo Frizziero, Alma Mater Studiorum University of Bologna, Department of Industrial Engineering, viale Risorgimento 2, 40136 Bologna, Italy

Product Lifecycle Management (PLM)

Dr. Gian Maria Santi, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Bologna, Italy

Product / Service Configuration

Sara SHAFIEE, Technical University of Denmark, Lyngby, Denmark

Production Engineering

Jai Kumar Drave, Department of Production Engineering, National Institute of Technology, Tiruchirappalli, India

Production Planning and Control

Francisco Reis, Department of Mechanical Engineering, School of Engineering, Polytechnic of Porto, Porto, Portugal

Project Management

Mohamed Ebrahim Helal Ebrahim ALZaabi, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Batu Pahat, Johor, Malaysia

Quality Control

Fazal Abbas, Institute of Quality and Technology Management, University of the Punjab Lahore, 54000, Pakistan

Reliability and Maintenance

Issen ABDELMOMEN, Doctorante en Mécanique des Matériaux, Laboratoire d'Etude des Microstructures et de Mécanique des Matériaux (LEM3), Université de Lorraine, Nancy, France

Service Engineering and Service Management

Emy Ezura Bt. A. Jalil, Technology and Supply Chain Excellence Institute, School of Technology Management, Universiti Utara Malaysia

Six Sigma

Cecilia Decesari, Alma Mater Studiorum University of Bologna, Department of Industrial Engineering, viale Risorgimento 2, 40136 Bologna, Italy

Supply Chain Management

Hafida BOULOIZ, Systems engineering and decision support laboratory, ENSA, Agadir, Morocco

Sustainability and Green Systems

Robert Valencia-Chapi, Escuela Técnica Superior de Ingenieros Industriales, Universidad Politécnica de Madrid, Madrid, Spain

Sustainability in Manufacturing, Services, Logistics, and Freight transportation

Roberto Panizzolo, Department of Management and Engineering, University of Padova, Vicenza, Italy

Sustainability in Supply Chains and Operations

Andreas Sterzing, Fraunhofer Institute for Machine Tools and Forming Technology, Fraunhofer Institute, Chemnitz, Germany

Sustainable Manufacturing

Imane Benkhalti, Faculté des Sciences Semlalia Marrakech, Casablanca, Morocco

Systems Dynamics

Mahdi Bastan, Department of Industrial Engineering, University of Eyvanekey, Semnan, Iran

Systems Engineering

Rolando Chavez, Department of Systems Engineering, San Luis Gonzaga University, Ica, 11000, Peru

Technology Management

Abdul Wadood, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia

TPM

Anouar Hallioui and Brahim Herrou, Industrial Techniques Laboratory, Center for Doctoral Studies in Engineering Sciences and Techniques – Faculty of Sciences and Techniques of Fez, SIDI MOHAMED BEN ABDELLAH University, Fez, Morocco

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Yevgen Zbykovskyy, Donetsk National Technical University, Pokrovsk, Ukraine

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32nd IEOM Global Engineering Education DISTINGUISHED SPEAKERS

Global Engineering Education I

July 26, Tuesday, 8:00 – 9:45 am – Room B (Onsite)

Session Chair: Dr. Ma. Angeles Gómez Gavito

8:00 am – 8:20 am (Tuesday, July 26)



Angeles Gómez Gavito

Doctor in Business Administration, Swiss Management Center University, Zug, Suiza
Master in Theory of Design, Universidad de las Américas Puebla, Mexico
Bachelor in Graphic Design, Universidad de las Américas Puebla, Mexico
Senior Lean Implementer & Black Belt MIT/ASU/UPAEP
Senior Lean Enterprise Transformer MIT
Senior Project Manager UPAEP

Angeles has 30 years of Professional Experience. She has been a consultant in Lean Six Sigma projects in worldwide industries like Volkswagen Mexico, Benteler Automotive, Rassini Breaks, Mead Johnson Nutrition, Gestamp Automotive, Volkswagen Bank, Bayer Pharmaceutical, Audi Mexico, Kayser Automotive, PWO Automotive, Schlemmer Automotive, Truck & Wheel, Clerprem Mexico, Flex&Gate, among others. Her interests are to consolidate a cluster of organizations grouped by industry sectors that actively participates in learning and collaborative network around the Lean Enterprise Philosophy, achieve considerable gains in their quality, costs, and delivery indicators, creating value for all stakeholders. Foster competitiveness in manufacturing, service, and government organizations, through the adoption and development of Lean Enterprise management tools and methodologies in their enterprise processes, thus increasing flexibility towards changes in the environment, improving their ability of innovation and continuous improvement, and creating a new business culture focused on value creation and a permanent pursuit of excellence. Angeles has 29 years of Academic Experience. She has been a professor of plenty of participants and students Attending more than 3000 people of Mexico, Colombia, Costa Rica and China. She has been a speaker in several congresses in Mexico, the USA, Spain, France, Singapore, and Argentina.

8:30 am – 9:00 am (Tuesday, July 26)

ID 522 Innovator's Dilemma: To be the First or to be the Best

Shirish D. Chikte and Sudhakar D. Deshmukh, MEDS and Operations Department, Kellogg School of Management, Northwestern University, Evanston, Illinois, USA

9:00 am – 9:30 am (Tuesday, July 26)

ID 567 Systematic Derivation of Learning Objectives for Fostering the Development of Sustainability Competences in the Education of Industrial Engineering and Management Students

Amila Omazic, Research and Teaching Assistant, Institute of Business Economics and Industrial Sociology, Faculty of Mechanical Engineering and Economic Sciences, Graz University of Technology, Graz, Austria
 Corina Pacher, Education Project Manager, Life Long Learning, Graz University of Technology, Graz, Austria
 Bernd Markus Zunk, Associate Professor, Institute of Business Economics and Industrial Sociology, Faculty of Mechanical Engineering and Economic Sciences, Graz University of Technology, Graz, Austria
 Manuel Woschank, Deputy Head and Senior Researcher, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

Global Engineering Education II

July 26, Tuesday, 2:00 – 3:45 pm – Room B

Session Chair: Alfred Wulff, Jade University of Applied Sciences, Wilhelmshaven, Germany

2:00 - 2:30 pm (Tuesday, July 26)

ID 568 Empirically-Based Recommendations for Competence Profiles for Industrial Engineering and Management Students in Austria: Theoretical Framework and Preliminary Empirical Findings

Amila Omazic, Research and Teaching Assistant, Institute of Business Economics and Industrial Sociology, Faculty of Mechanical Engineering and Economic Sciences, Graz University of Technology, Graz, Austria
 Corina Pacher, Education Project Manager, Life Long Learning, Graz University of Technology, Graz, Austria
 Bernd M. Zunk, Associate Professor, Institute of Business Economics and Industrial Sociology, Faculty of Mechanical Engineering and Economic Sciences, Graz University of Technology, Graz, Austria
 Manuel Woschank, Deputy Head and Senior Researcher, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

2:30 - 3:00 pm (Tuesday, July 26)

ID 477 The Effects of Online and Hybrid Teaching Practices on the Academic Performance of Engineering Students in Higher Education Institutions

Mhd Ayham, Industrial Engineering and Engineering Management Department, Sharjah - University of Sharjah, UAE
 Zehra Canan Araci, Assistant Professor, Industrial Engineering and Engineering Management Department, Sharjah - University of Sharjah, UAE

3:00 – 3:30 pm (Tuesday, July 26)

ID 434 Knowledge management in postgraduate engineering education

Alfred Wulff, Department of Management, Information and Technology, Jade University of Applied Sciences, Wilhelmshaven, Germany

Panel Chair

Dr. Patrick Dallasega
 Assistant Professor in Factory Planning and Project Management
 Free University of Bolzano, Italy

Panel Speaker I	Panel Speaker II	Panel Speaker III
Priv.-Doz. Dr.-Ing. Fazel Ansari Head – Research Group Smart and Knowledge-Based Maintenance, TU Wien Digitalization and Competence Management, Fraunhofer Austria	Corina Pacher Education Project Manager Graz University of Technology Austria	Dr. Manuel Woschank Deputy Head – Chair of Industrial Logistics Montanuniversitaet Leoben, Austria

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- | | | | |
|--------------------|----------------|----------------------|--------------------------|
| 1. Algeria | 14. Germany | 27. Malaysia | 40. South Africa |
| 2. Argentina | 15. Greece | 28. Mexico | 41. Spain |
| 3. Austria | 16. Hungary | 29. Morocco | 42. Switzerland |
| 4. Bangladesh | 17. India | 30. Nigeria | 43. Taiwan |
| 5. Brazil | 18. Indonesia | 31. Pakistan | 44. Thailand |
| 6. Canada | 19. Iran | 32. Papua New Guinea | 45. Turkey |
| 7. Chile | 20. Israel | 33. Peru | 46. United Arab Emirates |
| 8. China | 21. Italy | 34. Philippines | 47. United Kingdom |
| 9. Colombia | 22. Japan | 35. Portugal | 48. United States |
| 10. Czech Republic | 23. Jordan | 36. Qatar | 49. Uzbekistan |
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| 12. Egypt | 25. Kuwait | 38. Sierra Leone | |
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2nd IEOM Global Business Management DISTINGUISHED SPEAKERS

4:00 – 5:45 pm, TUESDAY Global Business Management I Onsite Room B

Session Chair: Athanasios Sidiropoulos, Aristotle University of Thessaloniki, Greece

4:00 – 4:30 pm, TUESDAY

ID 231 An Analysis Soft Skills Required in the Academic Faculty Positions

Zeynep Didem Unutmaz Durmuşoğlu, Associate Professor, Department of Industrial Engineering, Gaziantep University, Gaziantep, Turkey
Alptekin Durmuşoğlu, Associate Professor, Department of Industrial Engineering, Gaziantep University, Gaziantep, Turkey

4:30 – 5:00 pm, TUESDAY

ID 263 Importance of Same Day Delivery of Fast-Moving Consumer Goods for E-Commerce Companies

Onur Delikurt and Adnan Corum, Department of Industrial Engineering, Bahcesehir University, Istanbul, Turkey

5:00 – 5:30 pm, TUESDAY

ID 393 Business Process Optimization using a Real-Time Locating System

Athanasios Sidiropoulos, PhD Student, Department of Mechanical Engineering, School of Engineering, Division of Industrial Management, Aristotle University of Thessaloniki, Thessaloniki, Greece
Dimitrios Bechtsis, Assistant Professor, Department of Industrial Engineering and Management, International Hellenic University, Thessaloniki, Greece
Dimitrios Vlachos, Professor, Department of Mechanical Engineering, School of Engineering, Division of Industrial Management, Aristotle University of Thessaloniki, Thessaloniki, Greece

4:00 – 5:45, WEDNESDAY Global Business Management II Onsite Room B

Session Chair: Manuel Woschank, Montanuniversitaet Leoben, Leoben, Austria

4:00 – 4:30 pm, WEDNESDAY

ID 573 Sequencing Problems in Flow Shop Production Systems

Mario Hoffelner, Researcher and Project Assistant, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria
Manuel Woschank, Deputy Head and Senior Researcher, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

4:30 – 5:00 pm, WEDNESDAY

5:00 – 5:30 pm, WEDNESDAY

ID 27 Determining the Level of Prefabricated Modules Requirement in Offsite Construction

Rafiu Dimeji Seidu, Ruoyu Jin, Bert Ediale Young and John Ebohon, School of the Built Environment and Architecture, London South Bank University, London, UK
Yizhe Lu, The Bartlett School of Construction and Project Management, University College London, Faculty of the Built Environment, 1-19 Torrington Place London, UK

4:00 – 5:45, THURSDAY Global Business Management III Onsite Room B

Session Chair: Edison Atencio, Politecnico di Milano, Milan, Italy

4:00 pm – 4:30 pm (Thursday, July 28)

ID 303 Methodology for eliminating waste combining Lean Logistics and 4.0 Technologies With a case study of a warehouse of a food company

Yusra El kihel, Teacher researcher, IUT of Bordeaux, Department MLT,
Ali El kihel, Doctor of Industrial Engineering, FST Settati University Hassan I Morocco
Soufian Embraki, Engineer of smart factory, Laboratory of Industrial Engineering and Seismic Engineering, National School of Applied Sciences ENSA, University Mohamed Premier, Oujda, Morocco

4:30 pm – 5:00 pm (Thursday, July 28)

ID 405 Utilisation of Life Cycle Assessment in Environmental Management: Review

Petronella Nyakudya, Nkosinathi Madushele and Daniel M. Madyira, University of Johannesburg, Auckland Park, Johannesburg, South Africa

5:00 pm – 5:30 pm (Thursday, July 28)

ID 397 An ontology for Project-Based Organization design: The Star Model Case

Edison Atencio and Mauro Mancini, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Milan, Italy
Department of Industrial Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2241, Valparaíso, Chile
Mauro Mancini, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Bovisa, Milan, Italy
Guillermo Bustos, Department of Industrial Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2241, Valparaíso, Chile

31st IEOM Industry Solutions and Industry 4.0

Distinguished Speakers

July 27, Wednesday

Industry Solutions I

8:00 – 9:45 am – Meeting Room B (Onsite)

Session Chair: Dr. George Pappas, LTU

8:00 am – 8:30 am (Wednesday, July 27)

ID 570 Extending the Control Action - Feedback Loops in STPA-based Safety Analysis with Interdependence Analysis Principles

Arie Adriaensen, Faculty of Engineering Science – Centre for Industrial Management, KU Leuven – Belgium, Department of Mechanical and Aerospace Engineering, Sapienza - University of Rome, Italy and Flanders Make@KU Leuven - Belgium

Laure Buysse, Faculty of Engineering Technology - Dept. Electrical Engineering, KU Leuven Bruges Campus – Belgium

Riccardo Patriarca, Department of Mechanical and Aerospace Engineering, Sapienza - University of Rome, Italy

Liliane Pintelon, Faculty of Engineering Science – Centre for Industrial Management, KU Leuven - Belgium

Davy Pissort, Faculty of Engineering Technology - Dept. Electrical Engineering, KU Leuven Bruges Campus – Belgium

8:30 am – 9:00 am (Wednesday, July 27)

ID 75 Evaluation of the complexity of generic models in system configuration

Elise Vareilles, Professor, ISAE SUPAERO - Toulouse France

Michel Aldanondo, Professor, IMT Mines Albi - Albi, France

Thierry Coudert, Associated Professor, ENIT / LGP - Tarbes, France

Maryam Mohammadamini, PhD Student, ENIT / LGP – ISAE SUPAERO – IMT Mines Albi – France

9:00 am – 9:30 am (Wednesday, July 27)



Dr. George Pappas

Assistant Professor & Director, MSAI graduate program

Electrical + Computer Engineering

Lawrence Technological University

Southfield, Michigan, USA

Over 10 years of teaching, research, and work experience in embedded systems and high-performance computing. I am currently the director of the Master of Science in Artificial Intelligence (MSAI) program. Research projects included being a Principal investigator (PI) for a DENSO grant in machine vision safety systems in vehicles titled "Intelligent Smart Real-Time Vision (ISRTV) as an Embedded System for Advanced Applications". Also currently being a co-PI working on a Minimal Viable Product (MVP) Contextualizer that incorporates AI and software

integration for manufacturing integration for Stefanini. Artificial Intelligence (AI) in Autonomous vehicles, employs machine-learning techniques to collect, analyze, and transfer data for a safer driving experience. Also, investigate encryption and optimization algorithms and security of the transfer of electronic medical data using wireless cellular communication systems for evaluation, diagnosis, and treatment of patients in remote locations. Some additional research interests are Artificial Intelligence (AI) within radiology, specifically computerized tomography (CT) image reconstruction. Precise data analytics for pathology images. Virtual Reality (VR) in medical applications, Artificial Intelligence (AI) to aid diagnostics, Telemedicine, Medical and Health Informatics, Wireless implantable sensors, and biomedical Transducers.

July 27, Wednesday

Industry Solutions II

2:00 - 3:45 pm – Meeting Room B (Onsite)

Session Chair: Marialuisa Menanno, Department of Industrial Engineering, University of Sannio, Piazza Roma 21, Benevento, Italy

2:00 pm – 2:30 pm (Wednesday, July 27)

ID 43 Analysis of the Effect of Learning on the Solution of a Simple Assembly Line Balancing Problem

Zakaria Zine El Abidine, Imre Dimény and Tamás Koltai, Department of Management and Business Economics, Budapest University of Technology and Economics, Budapest, Hungary

2:30 pm – 3:00 pm (Wednesday, July 27)

ID 99 A Decision Support System for a Modified Kanban-Controlled Flowshop

Ali Ardalan and Roya Ardalan, Professor, Faculty of Information Technology and Decision Sciences, Strome College of Business, Old Dominion University, Norfolk, VA 23529, USA

3:00 pm – 3:30 pm (Wednesday, July 27)

ID 470 Exploring the concurrent impact of costs, travel time and CO2 emissions within a hybrid aisle-line warehouse through Genetic Algorithm

Marialuisa Menanno and Matteo Savino, Department of Industrial Engineering, University of Sannio, Piazza Roma 21, Benevento, Italy

11th IEOM Global Supply Chain and Logistics

DISTINGUISHED SPEAKERS

Global Supply Chain and Logistics - I

July 28, 8:00 – 9:45 am – Meeting Room B (Onsite)

Session Chair: Manuel Woschank, Deputy Head and Senior Researcher, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

8:00 am – 8:30 am (Thursday, July 28)

ID 395 Integration between Star Model components for Project-Based Organizations design: A network analysis

Edison Atencio, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Via Lambruschini 4b, Bovisa, Milan, Italy

Department of Industrial Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2241, 2340000, Valparaíso, Chile

Mauro Mancini, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Via Lambruschini 4b, Bovisa, Milan, Italy

Guillermo Bustos, Department of Industrial Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2241, Valparaíso, Chile

8:30 am – 9:00 am (Thursday, July 28)

ID 573 Sequencing Problems in Flow Shop Production Systems

Mario Hoffelner, Researcher and Project Assistant, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

Manuel Woschank, Deputy Head and Senior Researcher, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

9:00 am – 9:30 am (Thursday, July 28)

Global Supply Chain and Logistics II

July 28, 2:00 – 3:45 pm – Meeting Room B (onsite)

Session Chair: Behzad Maleki Vishkaei, Department of Business and Management, LUISS University, Rome, Italy

2:00 pm – 2:20 pm (Thursday, July 28)

ID 251 The influence of SCM practices on port supply chain performance: Moroccan case study

Doha Talkhokhet, Professor of Economics, Research Laboratory in Theoretical and Applied Economics, Faculty of Economics and Management of Settat, Morocco

Mohamed-Iliasse Mahraz, PhD in supply chain, AMIPS Team, Mohammadia School of Engineering, Mohammed V University in Rabat, Morocco

Rachida El Yamani and Mohamed Moutmihi, Professor of Economics, Research Laboratory in Economics and Logistics Performance, Faculty of Law, Economics and Social sciences of Mohammedia, Hassan II University of Casablanca, Morocco

2:30 pm – 3:00 pm (Thursday, July 28)

ID 115 Blockchain-based Smart Contracts for Sustainable Food Waste Management and Collaborations

Behzad Maleki Vishkaei and Pietro De Giovanni, Department of Business and Management, LUISS University, Rome, Italy

3:00 pm – 3:30 pm (Thursday, July 28)

ID 153 E-commerce challenges in Logistics Management

Judith Nkuna, Department of Quality and Operations Management, University of Johannesburg, South Africa

Andre Vermeulen, Faculty of Engineering and the Built Environment, Department of Engineering Management, University of Johannesburg South Africa

Jan-Harm Pretorius, Engineering and the Built Environment, Department of Engineering Management, University of Johannesburg, South Africa

Global Supply Chain and Logistics III

July 28, 4:00 – 5:45 pm – Meeting Room A (onsite)

Session Chair: Judith Nkuna, Department of Quality and Operations Management, University of Johannesburg, South Africa

4:00 pm – 4:30 pm (Thursday, July 28)

ID 184 Promoting the Development of Additive Symbiotic Networks with the Adoption of Blockchain Technology

Inês A. Ferreira, PhD Student, Industrial Engineering, NOVA School of Science and Technology, NOVA University of Lisbon, Caparica, Portugal

Helena Carvalho, Associate Professor, Industrial and Management Engineering, UNIDEMI – Department of Mechanical and Industrial Engineering, NOVA School of Science and Technology, Caparica, Portugal

4:30 pm – 5:00 pm (Thursday, July 28)

ID 426 The Role of Electrification of Transport In The Energy Transition

Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa

Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

5:00 pm – 5:20 pm (Thursday, July 28)

ID 152 The Improvement of Product and Process Design of Sanitary Pads

Judith Nkuna, Department of Quality and Operations Management, University of Johannesburg, South Africa

Andre Vermeulen, Faculty of Engineering and the Built Environment, Dept. of Engineering Management, University of Johannesburg, South Africa

Jan-Harm Pretorius, Engineering and the Built Environment, Department of Engineering Management, University of Johannesburg, South Africa

6th European Industrial Engineering and Operations Management Conference Lisbon, Portugal, July 18-20, 2023

Host: NOVA School of Science and Technology – FCT NOVA

Venue: Doubletree by Hilton Lisbon Fontana Park

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Parallel Sessions

All Times are in Rome Time

MONDAY, July 25, 2022 (Virtual)

	Virtual Room 1	Virtual Room 2	Virtual Room 3	Virtual Room 4	Virtual Room 5	Virtual Room 6
6:00 – 7:45 am	Undergraduate Paper Competition	Graduate Paper Competition	HF Competition	OR	Eng Economy	BM
8:00 – 9:45 am	Undergraduate Paper Competition	Graduate Paper Competition	SCM	PPC	TM	BM
10:00 – 11:45 am	Undergraduate Paper Competition	PhD Dissertation Competition	IM	HF	BM	BM
12:00 – 1:45 pm	Undergrad Research Competition	MS Thesis Competition	BM	Design	HF	BM
2:00 – 3:45 pm	Senior Design Competition	MS Thesis Competition	E-Commerce	Industry 4.0	HF	BM
4:00 – 5:45 pm	High School STEM Competition	LSS, SCM & Simulation Competition	Industry 4.0	Machine Learning	SCM	BM

TUESDAY, July 26, 2022 (Virtual)

	Virtual Room 1	Virtual Room 2	Virtual Room 3	Virtual Room 4	Virtual Room 5	Virtual Room 6
6:00 am	Sustainability	E-Business	Entrepreneurship	Transport and Traffic	Quality and Reliability	Transformation

TUESDAY, July 26, 2022 (Onsite)

	Onsite Room A – CESARINI Virtual Room 1	Onsite Room B – TEVERE Virtual Room 2	Onsite Room C – ANIENE Virtual Room 3	Virtual Room 4
8:00	Plenary I	GEE I	Competitions (Onsite)	PM
9:45	Morning Networking Coffee Break			
10:00	Welcome Address from Host - Welcome Address: Dr. Giulio di Gravio, Full Professor, Department of Mechanical and Aerospace Engineering, Coordinator- PhD course in Industrial and Management Engineering, Sapienza – University of Rome, Italy - Room A			
10:20	Keynote I (Opening Keynote): Alexandre Dolgui, Editor-in-Chief, International Journal of Production Research, Distinguished Professor, Head of Department Automation, Production and Computer Sciences, IMT Atlantique, Nantes, France - Room A			
11:00	Keynote II: Andrea Benfenati, Founder and Senior Management Consultant, Newconsulting Srls, Parma, Emilia-Romagna, Italy - Room A			
11:40	Keynote III: Prof. Dr. Tirta Nugraha Mursitama, Vice Rector of Research and Technology Transfer, Bina Nusantara University – BINUS University, Jakarta, Indonesia - Room A			
12:20	Keynote IV: Franco Megali, VP and CEO Italy, Israel and Greece, Siemens Industry Software S.r.l., Global Sales & Customer Success, Via Werner von Siemens, 1, 20128 Milano, Italy - Room A			
1:00	Lunch Break – Lunch Provided at Grand Hotel Palatino			
2:00	WIIA Panel	GEE II	SCM	Product Development
4:00	GEE Panel	Global Business Management Education I	EM	

Wednesday, July 27, 2022 (Virtual)

	Virtual Room 1	Virtual Room 2	Virtual Room 3	Virtual Room 4	Virtual Room 5	Virtual Room 6
6:00 am	Innovation	Lean Six Sigma	Healthcare Systems	Data Analytics	Decision Sciences	BM

Wednesday, July 27, 2022 (Onsite)

	Onsite Room A – CESARINI Virtual Room 1	Onsite Room B – TEVERE Virtual Room 2	Onsite Room C – ANIENE Virtual Room 3	Virtual Room 4
8:00	Plenary II	Industry Solutions I	OM	Energy
9:45	Morning Networking Coffee Break			
10:00	Keynote V: Dr. Federica Caffaro, Faculty in Work and Organisational Psychology, Dept. of Education, Roma Tre University, Italy - Room A			
10:30	Keynote VI: Virgilio Cruz Machado, Director / Dean, Nova School of Science and Technology FCT NOVA, Universidade NOVA de Lisboa, Caparica, Portugal			
11:00	Keynote VII: Tomohiko Sakao, Professor of Sustainable Product/Service Systems, Linköping University, Sweden - Room A			
11:40	Keynote VIII: Maria Antonella Ferri, Dean, Economics and Business Management, Full Professor of Management, Universitas Mercatorum, Roma, Italy			
12:20	Keynote IX: Matteo Balboni, Sr. Engineering Manager Quality Design RCS, Medtronic, Mirandola, Italy - Room A			
1:00	Lunch Break – Lunch Provided at Grand Hotel Palatino			
2:00	Sustainability	Industry Solutions II	AI	Eng Education
4:00	Industry 4.0 Panel	Global Business Management Education II	Design and Manufacturing	Sustainability

Thursday, July 28, 2022 (Virtual)

	Virtual Room 1	Virtual Room 2	Virtual Room 3	Virtual Room 4	Virtual Room 5	Virtual Room 6
6:00 am	Industry Best Practices	IT	Green Systems	OM	Case Studies	Modeling & Simulation

Thursday, July 28, 2022 (Onsite)

	Onsite Room A – CESARINI Virtual Room 1	Onsite Room B – TEVERE Virtual Room 2	Onsite Room C – ANIENE Virtual Room 3	Virtual Room 4
8:00	Plenary III	GSCM I	Energy	Design
9:30	Morning Networking Coffee Break – Foyer Area			
10:00	Keynote X: Prof. Massimo GUARASCIO (Expert in Safety and Risk Analysis), Professor, Department of Chemical Engineering Materials Environment (DICMA), Sapienza-University of Rome, Italy			
10:20	Keynote XI: Raphael Grzebieta, PhD, Emeritus Professor (Road Safety), Transport and Road Safety (TARS) Research Centre, School of Aviation, University of New South Wales, Sydney, Australia - Room A			
11:00	Keynote XII: Dr. Juan Jesus Perez, Full Professor of Physical Chemistry, Universitat Politècnica de Catalunya, Barcelona, Spain			
11:40	Keynote XIII: Luz María Valdez de la Rosa, Ph.D., Profesora del Departamento de Ingeniería Civil y Gestión, Escuela de Ingeniería y Tecnologías, Universidad de Monterrey, Mexico - Room A			
12:20	Keynote XIV: Salvatore GIUA, Head of MEP & Safety for Design & Built Activities, SYSTRA SWS, Rome, Italy and Chairman of the Italian Technical Committee 4.4 “Tunnels” of the World Road Association - Room A			
1:00	Lunch Break – Lunch Provided at Grand Hotel Palatino			
2:00	Plenary IV	GSCM II	Education	OM
4:00	GSCM III	Global Business Management Education III	Diversity and Inclusion Panel sponsored by Ford Motor Company	Smart Technologies
7:30	7:30 – 10:00 pm Conference Awards Dinner at Grand Hotel Palatino			

July 25 (MONDAY) - Session: 6:00 – 7:45 am

6:00 – 7:45 am, MONDAY**Undergraduate Paper Competition****Virtual Room 1**

Session Chair: Dr. Mario Fagnoli, Universitas Mercatorum, Rome, Italy

ID 30 Picking Optimization in a Peruvian SMEs Based on Lean Warehousing Techniques

Daniela Barrantes, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

Belen Galdos, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

Marcos Fernando Ruiz-Ruiz, Associate Professor, Universidad de Lima, Lima, Perú

Wilfredo Yushimito, Associate Professor, Universidad Adolfo Ibáñez, Santiago, Chile

ID 69 Design of Work Facilities in Magetan Leather Shoes SMEs

Amelia Rahma Dhani M., Dina Nurfitri Rahma, Fadhil Rafi Hidayat and Rizki Ananda Putra N.R., Undergraduate Program in Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Eko Liquiddanu, Head of Industrial Engineering Study Programme, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Retno Wulan Damayanti, Lecturer and Researcher of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 97 Workbench Design Based on the NIDA Method in The Finishing Stage of Leather Bag Production

Aldi Pascagama Nurrachman, Annisa Syahlantina, Muhammad Iqbalnur and Shafa Keysa Rinjani Hananta, Undergraduate Program in Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Co Author, Pringgo Widyo Laksono and Retno Wulan Damayanti, Research Group Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 101 Relationships Between Sleep Quality, Fatigue, Stress and Anxiety of IE41S1 in Technological Institute of the Philippine Quezon City: A Multiple Regression Analysis

Aban Martson, Art Jeffrey's Castillo, Russel Dela Merced, Donavel Lazarte, Alexander C. Malapitan and Paul Ezekiel Sonza, Department of Industrial Engineering, College of Engineering and Architecture Technological Institute of the Philippines - Quezon City Cubao, Quezon City Philippines

ID 248 Improving Coffee Xyz's Production Planning using Forecasting and Master Production Schedule

Farhan Ahmad Alfian, Ivandi Yudha Anugrah, Athallah Yuritra, and Arief Nurdini, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, West Java 16424, Indonesia

ID 249 Improvement Analysis on Optimization Production Management at Ginger Factory using Forecasting and Production Planning Method

Defananda Arya Fadaldala, Jihad Bangsawan, Naufal Setiawan and Rafindra Afnan, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, 16424, Indonesia

ID 571 Level of IFRS Implementation in SMEs: Exploratory Case Studies of SMEs Palembang, Indonesia

Amany Larassiyah Amir, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia

Muji Gunarto, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia

Amirudin Syarif, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia

Dian Cahyawati, Department of Mathematics, Faculty of Math and Natural Science, Universitas Sriwijaya, Palembang, Indonesia

6:00 – 8:00 am, MONDAY**Graduate Paper Competition****Virtual Room 2**

Session Chair: Judging Committee Chair

ID 58 Reduction of Manufacturing Defects in a Product from a Metallurgical Industry

Rodrigo Dias da Costa, Department of Industrial Engineering, Rio de Janeiro State University, Resende, Rio de Janeiro 27537000, Brazil

José Glênio Medeiros de Barros, Department of Industrial Engineering, Rio de Janeiro State University, Resende, Rio de Janeiro 27537000, Brazil

Antonio Henriques de Araujo Jr, Department of Industrial Engineering, Rio de Janeiro State University, Resende, Rio de Janeiro 27537000, Brazil

Ronald Palandi Cardoso, Department of Mechanical Engineering, Rio de Janeiro State University, Resende, Rio de Janeiro 27537000, Brazil

José Salvador da Motta Reis, Department of Industrial Engineering, Rio de Janeiro State University, Resende, Rio de Janeiro 27537000, Brazil

Nilo Antonio de Souza Sampaio, Department of Mathematics, Physics and Computing, Rio de Janeiro State University, Resende, Rio de Janeiro

ID 163 Effectiveness Comparison of Differentiation Strategies in Sports Footwear Industries Companies: A Case Study

Amiral Rasyid, Rizal Palapa and Salwa Nahlyta Tazkia, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia Depok, 16424, Indonesia

ID 202 Human Augmentation: Enhancement of Cognitive Abilities

Muna Ali, MEEM Graduate Student, Department of Industrial & Mechanical Engineering, Rochester Institute of Technology, Dubai, UAE

Dr. Slim Saidi, Associate Professor, Department of Industrial & Mechanical Engineering, Rochester Institute of Technology, Dubai, UAE

ID 239 A Proposed Factory Layout and Improved Process Time Using Lean Tools for FITCO Detergent Factory in Qatar

Maryam Mohdsaeed Abdulla, Petroleum Engineer, QatarEnergy, Engineering Management Masters Student, College of Engineering Qatar University, Doha, Qatar

Shaima Almuslimani, Health Facilities Licensing and Accreditation Engineer, Ministry of Public Health, Engineering Management Masters Student College of Engineering, Qatar University, Doha, Qatar

Zahra Al-Ansari, Production Planning Engineer, Qatar Airways, Engineering Management Masters Student, College of Engineering, Qatar University Doha, Qatar

Aisha Al-Nabet, Planning Engineer, ASTAD Project Management, Engineering Management Masters Student, College of Engineering, Qatar University, Doha, Qatar

Afaf H. Abunada, E-learning Coordinator, Ministry of Education and Higher Education, Doha, Qatar

6:00 – 7:45 am, MONDAY Human Factors and Ergonomics Competition Virtual Room 3

Session Chair: Judging Committee Chair

ID 57 Task Allocation Between Human and Manipulator in Final Semi-Automated Automobile Assembly

Ikrom Kambarov, PhD student, Department of Mechanical and Aerospace Engineering, Turin Polytechnic University in Tashkent, Uzbekistan

Jamshid Inoyatkhodjaev, Professor of Department of Mechanical and Aerospace Engineering, Turin Polytechnic University in Tashkent, Uzbekistan

ID 461 Measurement of Occupational Stress Level in the Oil Sector in Kuwait

Ayat Alwazzan, Awatif Alwogyan, Fatma Alshourafa, Hessa Alobaid, Nahla Alhindi Wasayef Alazemi and Suat Kasap, College of Engineering and Technology, Industrial Engineering Department, American University of the Middle East, Eqaila, Kuwait

ID 463 Employee Engagement: How Toxic Workplace Environment and Job Burnout as a Mediation Variable Influence It?

Novianti Lestari Saepudin, Student of Magister Management, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

Fetty Poerwita Sary, Lecture of Magister Management, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 533 Effects of Computer Workstation Design on the Body Discomfort of Online Gamers

Angela Mae B. Urbiztondo, Nicole Louise Josue, Erin Dominique U. Salazar, Carl Louie N. Cruz, and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines 1002

ID 535 Leadership coaching framework tool-based to support worker engagement and retention in Industry 4.0

Juliana Salvadorinho and Leonor Teixeira, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), Institute of Electronics and Informatics Engineering of Aveiro (IEETA), University of Aveiro, Aveiro, Portugal

ID 482 Clustering of Workers Based on the Effect of Downward Social Comparison

Yanwen Dong, Professor, Cluster of Science and Technology, Fukushima University, Fukushima, Japan

Qin Zhu, Professor, School of Economics & Management, Nanchang University, Nanchang, China

6:00 – 7:45 am, MONDAY Operations Research Virtual Room 4

Session Chair: Joel C. De Goma, School of Information Technology, Mapua University, Philippines

ID 321 Optimization and Simulation of Airport Ground Equipment and Staff Scheduling

Yiyun (Cindy) Fei, Graduate Student, Georgia Institute of Technology, Atlanta, Georgia, USA

ID 15 Hybrid Model for Locating Fire Station in A City

R.R.K. Sharma, Dept. of IME, IIT Kanpur, India

Vinay Singh, ABV-Indian Institute of Information Technology and Management Gwalior, India

Pranit Roy and Uddyan Goyal, IIT Bombay, India

KK Lai, President, CYUT Taiwan

ID 16 Model for Locating Hospitals in a City

Sheela R. Sharma, Rama Medical College, Kanpur, India

R.R.K. Sharma, Department of Industrial and Management Engineering, IIT Kanpur, Kanpur, India

Vinay Singh, ABV-Indian Institute of Information Technology and Management, Gwalior, India

Anshul Saraf, Shri G.S. Institute of Technology and Science, Indore, India

KK Lai, President, CYUT, Taiwan

ID 41 Interdicting dense clusters in network systems

Foad Mahdavi Pajouh, Stevens Institute of Technology, United States

ID 95 Optimization of the Cost and Duration in the Tower Crane Installation Using Goal Programming (GP) Model

Neil T. Awit, School of Information Technology, Mapua University, Philippines

Joel C. De Goma, School of Information Technology, Mapua University, Philippines

ID 289 Efficient Heuristic Methods for Minimizing the Cost of City Bus Operations of Indian Urban Road Transportation Organizations

Rupkatha Ghosh and M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bangalore 560012, India

ID 311 Conducting Operational Analysis on BLOSS

Abdulaziz Alsaghyir and Faisal Alrashid, Riyadh, Saudi Arabia

Dr Sobhi Mejjiaouli, Riyadh, Saudi Arabia

6:00 – 7:45 am, MONDAY Engineering Economy Virtual Room 5

Session Chair: Nihatunnajwa, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 253 Optimization Study: Bolt Food Delivery

Haifa AlShathry, Alfaisal University, Saudi Arabia

ID 307 The rising trend of Customized Flower Gifting Shops and Initiating Business within the Saudi Arabian market.

Abdulaziz Alsaghyir and Faisal Alrashid, Industrial Engineering Student at Alfaisal University, Saudia Arabia
Sobhi Mejjauoli, Assistant Professor of Industrial Engineering at Alfaisal University, Saudia Arabia

ID 314 Fifth European Conference on Industrial Engineering and Operations Management Classic Cars Investment Decision Making Model

Alanoud Alsalem, Areeb Alassaf, Moudhi Alsaud and Dr Sobhi Mejjauoli, Engineering Economy, Alfaisal university, Saudi Arabia

ID 316 Engineering Economy and Cost Analysis of Jahez Company

Shadin AlSalem, Department of Industrial Engineering, Alfaisal University, Riyadh, Kingdom of Saudi Arabia
AlJawhara AlSaud, Department of Industrial Engineering, Alfaisal University, Riyadh, Kingdom of Saudi Arabia
Haya AlQahtani, Department of Industrial Engineering, Alfaisal University, Riyadh, Kingdom of Saudi Arabia
Instructor, Dr. Sobhi Mejjauoli, Assistant Professor of Industrial Engineering department, College of Engineering – Alfaisal University, Riyadh, KSA

ID 399 Juice shop economic and break-even analysis at Alfaisal University

Dr. Sobhi Mejjauoli, Assistant Professor of Industrial Engineering, College of Engineering, Alfaisal University, Riyadh, Saudi Arabia
Alreem AlSaud, Mashael Binadwan, Layla Alshaya and Sara BinGhannam, Alfaisal University, Riyadh, Saudi Arabia

ID 410 Evaluating Shaddah Studio Cashflows to Maximize Annual Profit

Latifa AlHgbani, Undergraduate Electrical Engineering Student, Alfaisal University, Riyadh, Saudi Arabia
Sobhi Mejjauoli, Assistant Professor, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

ID 582 Choosing Supplier Using Analytical Hierarchy Process (Ahp) Method to Reduce Penalty Cost On PT. XYZ

Nihayatunnajwa, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Sarah Dwi Pratiwi, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Wyndah Pril Sisca Ria, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Bachtiar H. Simamora, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

6:00 – 7:45 am, MONDAY**Business Management****Virtual Room 6**

Session Chair: Galuh Tresna Murti, Faculty of Economic and Business, Telkom University, Bandung, West Java, Indonesia

ID 489 Design of Performance Appraisal based on Key Performance Indicators at PT XYZ

Dita Aditya Rahmawati, College Student, School of Economics and Business, Telkom University, Bandung, Indonesia
Ratri Wahyuningtyas, Associate Professor, School of Economics and Business, Telkom University, Bandung, Indonesia

ID 497 Examining the Product Innovation During Covid-19 Pandemic on Purchase Decision: A Study on Culinary Business in Indonesia

Jurry Hatammimi, Singgih Pradana, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 529 Customer Retention Strategies in Internet Provider: Assessment using MCDM Approach

Ahmad Tubagus D. P., Assistant Professor, Industrial Engineering Department, Binus University, Jakarta, Indonesia
Ezra Peranginangin, Assistant Professor, Industrial Engineering Department, Binus University, Jakarta, Indonesia

ID 542 The Elements of Customer Experience in the Themed Restaurants: A Systematic Review

Dimas Yudistira Nugraha, Faculty Member of Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung Campus, Bandung, Indonesia
Novia Yuliarni, Student, Universitas Pendidikan Indonesia, Bandung, Indonesia

ID 553 Do Males Share the Same Criteria as Females in Determining their Skincare Needs? A study of Consumers' Behavior

Aisyah Khoerunnisa Nurjamin, Faculty of Economics and Business, Telkom University, Indonesia
Maya Ariyanti, Faculty of Economics and Business, Telkom University, Indonesia

ID 66 Propose Design Application "Cash IT" as Payment Gateway & Content Sharing Platform

Siti Eida Hiererra, Information Systems Department, School of Information Systems, Bina Nusantara University, Jakarta, Indonesia 11480
Raesita Zahra, Information Systems and Accounting Department, School of Information system and Accounting, Bina Nusantara University Jakarta, Indonesia

ID 591 The Determining Factors For Innovation Performance Success (An Empirical Study of Indonesian Commercial Banking)

Galuh Tresna Murti, Faculty of Economic and Business, Telkom University, Bandung, West Java, Indonesia
Alfian, Faculty of Economic and Business, Lambung Mangkurat University, Banjarmasin, South Kalimantan, Indonesia

July 25 (MONDAY) - Session: 8:00 – 9:45 am**8:00 – 9:45 am, MONDAY****Undergraduate Paper Competition****Virtual Room 1**

Session Chair: Dr. Mario Fargnoli, Universitas Mercatorum, Rome, Italy

ID 531 Determining the Disaster Preparedness and Readiness of Filipinos based on Ergonomic Factors

Jun Carl Caesar Laingo, William Henry R. Tapucar, Dea Monique Cruz and John Rey Lumen, College of Engineering and Architecture, Industrial Engineering Program, Malayan Colleges Mindanao, Davao City, Davao del Sur, Philippines
Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

ID 543 Sentiment Analysis on User Reviews Mutual Fund Ajaib App With K-Nearest Neighbor (KNN) Method

Adellia Maulanie Fadilla, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Tacbir Hendro Pudjiantoro, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Fajri Rakhmat Umbara, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Asep Id Hadiana, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia

ID 544 Sentiment Analysis of Live.On Digital Provider Application Using Naive Bayes Classifier Method

Cendana Idli Mulia Asriguna, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Tacbir Hendro Pudjiantoro, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Puspita Nurul Sabrina, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Asep Id Hadiana, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia

ID 545 Influence of Intellectual Capital and Corporate Social Responsibility on Company Financial Performance (Case Study on Indonesian Conventional Banking Listed in Indonesian Stock Exchange (IDX) on Period 2016-2020)

Rafif Ridanus Pratama and Dewa Putra Krishna Mahardika, Bachelor of Accounting, Faculty of Economic and Business, Telkom University Indonesia

ID 554 Sentiment Analysis Online Shop Social Media on Tik-Tok App with Naive Bayes Classifier (NBC) Method

Asmia Nur Khaliza, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Yulison Herry Chrisnanto, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Puspita Nurul Sabrina, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia
Asep Id Hadiana, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia

ID 576 Layout Design to Enhance the Working Effectivity: A Case Study Applied in PT XYZ

Imanella Indah Nugroho, Evy Nuryudhiani, Hanin Tsimar Andriyani and Azam Abdul Munib, Undergraduate Program in Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
Pringgo Widyo Laksono and Retno Wulan Damayanti, Lecturer and Researcher of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

8:00 – 9:45 am, MONDAY**Graduate Student Paper Competition****Virtual Room 2**

Session Chair: Judging Committee Chair

ID 308 Investigating Barriers and Challenges to Artificial Intelligence (AI) Implementation in Logistic Operations: A Systematic Review of Literature

Jasim Al Suwaidi, Hamad Rashid and Ridvan Aydin, Department of Industrial Engineering and Engineering Management, College of Engineering, University of Sharjah, P.O. Box 27272, Sharjah, United Arab Emirates

ID 388 Fire Hazards by Aluminum Composite Cladding in High-rise Buildings

Amal Almarzooqi, Arwa Alzubaidi and Safa Alkatheeri, Graduate Students, MEng In Health, Safety and Environment Engineering, Khalifa University, UAE

ID 408 Contribution of Weather Conditions on the Spread of Wildfires with Management System for Preparedness Enhancement

Hasan Alhammadi, Department of Engineering in Health, Safety and Environment, Khalifa University, Abu Dhabi, UAE
Asmaa Alsereidi, Department of Engineering in Health, Safety and Environment, Khalifa University, Abu Dhabi, UAE
Marwah Aldhanhani, Department of Engineering in Health, Safety and Environment, Khalifa University, Abu Dhabi, UAE
Dr. Saed Talib Amer, Department of Industrial and Systems Engineering, Khalifa University, Abu Dhabi, UAE

8:00 – 9:45 am, MONDAY**SCM****Virtual Room 3**

Session Chair: Xue-Ming Yuan, Singapore Institute of Manufacturing Technology, Agency for Science, Technology and Research (A*STAR), Singapore

ID 398 India's Medical Oxygen Supply Chain: Challenges and Optimization

Firoj Khan, Jindal Steel and Power Limited, Gurgaon, Haryana, India
Ravi Kumar Kushwaha, Jindal Steel and Power Limited, Angul, Odisha, India
Ashish Trivedi, O.P. Jindal Global University Sonipat, Haryana, India

ID 400 Transportation of Construction Steel by using Two-Stage Optimization Model: An Indian Case Study

Gaurav Kumar Sharma, Coal Management Group, Jindal Steel and Power Limited, India
Soumyadeep Chatterjee, Coal Management Group, Jindal Steel and Power Limited, India
Ashish Trivedi, O.P. Jindal Global University Sonipat, India

ID 449 Challenges in the LNG Industry: Megaproject Management of Qatar's LNG Value Chain Expansion

Salman Hussain Ashkanani, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar
Dr. Robert Eduard Franzoi, Postdoctoral Researcher, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar

Professor Dr. Laoucine Kerbache, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University and HEC Paris, Doha, Qatar

ID 60 Improving Firm Performance through Supply Chain Adaptability and Resilience: Service-Blockchain Based View

Darjat Sudrajat, Assistant Professor, BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia
Engkos Achmad Kuncoro, Associate Professor, BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia
Hardijanto Saroso, Assistant Professor, BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia
Anisa Larasati, Lecturer, BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia
Andre Kreie, Director Logistics Education – LEED, Kuehne Foundation, Switzerland

ID 61 Enterprise Operations in a Three-Level Supply Chain Under Cap-and-Trade Regulation

Fatemeh Rezaei, Faculty of Economics and Business, KU Leuven, Belgium
IESEG School of Management, Paris, France
Maximiliano Udenio, Assistant Professor, Faculty of Economics and Business, KU Leuven, Belgium
Linda L. Zhang, Professor of Operations Management, IESEG School of Management, Univ. Lille, CNRS, UMR 9221 - LEM – Lille Economie Management, F-59000 Lille, France

ID 382 Inventory Performance Development in Private Hospitals: A Case Study in Thailand

Akaphong Pansuwan, The Cluster of Logistics and Rail Engineering, Faculty of Engineering, Mahidol University, Nakhon Pathom, Thailand
Duangpun Kritchanchai, Department of Industrial Engineering, Mahidol University, Nakhon Pathom, Thailand

ID 272 Stochastic Programming Inventory Model for Perishable Materials with Uncertain Demand and Multiple Suppliers

Xue-Ming Yuan, Darrell Ong, Rajarshi Bardhan, Joel Tay and Huey Yuen Ng, Singapore Institute of Manufacturing Technology, Agency for Science, Technology and Research (A*STAR), Singapore 138634, Singapore

8:00 – 9:45 am, MONDAY

Production Planning and Control

Virtual Room 4

Session Chair: Rahmat Nurcahyo, Department of Industrial Engineering, Universitas Indonesia

ID 136 Scheduling Problem Challenges Arising in a Textile Company and Solution Proposals

Dilara Muhacir and Muhammed Idris Aktaş, Boyar Kimya A.Ş., 2nd Organized Industrial Zone, Gaziantep 27650, Turkey
Eren Özceylan, Assoc. Professor, Department of Industrial Engineering, Gaziantep University, Gaziantep 27100, Turkey

ID 240 Improving Production Planning Strategy in Micro Business by Using Forecasting and Master Production Scheduling: Soku Bakery Case Study

Dendy Rio Casillas Pratama, Muhammad Kafin Nur, Muhammad Zaki Fuadi, Surya Marthen and Arief Nurdini, Department of Industrial Engineering Universitas Indonesia, Depok, West Java 16424, Indonesia

ID 242 Optimizing Inventory Management in Micro Small Medium Enterprise (MSME) Using Material Requirement Planning (MRP)

Naura Diva Atmika, Tania Marcella Tarigan, Yumi Annisa and Arief Nurdini, Department of Industrial Engineering, Universitas Indonesia Depok, Indonesia

ID 243 Optimizing Efficiency through Application of the Materials Requirement Planning and Demand Forecasting: A Case Study of a Small and Medium-Sized Enterprise in the Tea Beverage Industry

Alivanza Firdaus Rhufyano, Hanif Rahman Arifin, Jalaludin Shofa Mufti, Muhammad Fawwaz Robbani, and Ardhy Lazuardy, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 244 Demand Forecasting and Material Requirements Planning to Improve Production Planning of Small Apparel Enterprise

Abigail Naomi Ariela, Ardhy Lazuardy, Mahesti Layla Nursea, Syaniar Tiara and Wynona Salsabila Hafiz, Department of Industrial Engineering Universitas Indonesia, Depok, Indonesia

ID 245 Aggregate Planning to Minimize Cost of Production of ABC Company with Forecasting and Master Production Schedule Approach

Gloria Fenny Delavina Simanjuntak, Hani Saffanah Putri, Intan Putri Maharani Sinaga, and Nastiti Adibestari, Department of Industrial Engineering Universitas Indonesia, Depok, 16424, Indonesia
Ardhy Lazuardy, Assistant Professor, Department of Industrial Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 246 Improving Inventory Management by Better Forecasting Method for Healthcare Industry Company

Atsalabi Dimas Fadillah, Arif Furqan Wantuah, Mahardhika Hendra Bramasta Surya, Muhammad Zharfan Ainun Azka, and Djoko Nurprawito, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 247 Material Requirements Planning for PT Petrokimia Gresik's Fertilizer Production to Reach Production Cost Efficiency

Aldyth Ardiyanto, Destohalgia Amaanullah, Faiz Faruqi Fadhillah, Rizqi Adhipratama, and Rahmat Nurcahyo, Department of Industrial Engineering Universitas Indonesia, Depok, Jawa Barat 16424, Indonesia

ID 252 Fuel Consumption Forecasting in a Mining Industry Using Moving Average Forecasting Method and Single Exponential Smoothing Method in PT. Pertamina Geothermal Energy

Allendra Amala Haqqi, Fariz Alfariysi, Mochammad Rafi, Raffles Chrisostomus, and Djoko Nurprawito, Department of Industrial Engineering Faculty of Engineering, Universitas Indonesia, Universitas Indonesia, Depok, 16424, Indonesia

8:00 – 9:45 am, MONDAY

Technology Management

Virtual Room 5

Session Chair: Federico Walas Mateo, Universidad Nacional Arturo Jauretche, UNAJ, Buenos Aires, Argentina

ID 91 Provide Appropriate Methods for Technology Transfer to Countries with Technological, Political, and Economic Conditions Similar to Iran

Amin Sanaei, School of Management, Economics and Progress Engineering, Iran University of Science and Technology, Tehran, Iran
 Kaveh Mohammad Cyrus, Industrial Engineering Faculty, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
 Abbas Ahmadi, Faculty of Industrial Engineering and Management Systems, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
 Amir Sanaei, Deputy of Research and Technology, Bushehr University of Medical Sciences, Bushehr, Iran

ID 105 The Phenomenon Of E-Wallet Usage in Indonesia Based On The Theory Of Technology Acceptance Model

Aini Farmania, Fulltime Lecturer, Management Department – BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
 Riska Dwindia Elsyah, Management Program, Bakrie University, Jakarta Indonesia

ID 322 Workplace Pro-environmental Behavior Determinants: A Systematic Literature Review and Preliminary Study

Nor Kamariah Kamaruddin, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia
 Nor Hazana Abdullah, Center of Leadership and Competencies, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia
 Nurazwa Ahmad, Mohd Zarir Yusoff and Hafizah Zulkifli, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia Johor, Malaysia

ID 383 The Business Model of Circular Economy

Maryam Goodarzi, Ph.D. in Management of Technology, Faculty of Management and Economy, Science and Research Branch, Islamic Azad University, Tehran, Iran
 Mehdi Goodarzi, Associate Professor, School of Management and Accounting, Allameh Tabataba'i University, Tehran, Iran

ID 154 The Improvement of Product and Process Design of Sanitary Pads

Judith Nkuna, University of Johannesburg, South Africa

ID 411 Investigating the Main Determinant of Sustainability Development in SMEs in the Context of Developing Countries

Huy Q. Phan, Mohammed Saad and Vikas Kumar, Bristol Business School, University of the West of England, Bristol, BS16 1QY, UK

ID 412 Industry 5.0 and new business models in mining. Adoption Case of Machine Learning to optimize the process at a copper Semi Autogenous Grinding (SAG) Mill.

Federico Walas Mateo, Universidad Nacional Arturo Jauretche, UNAJ., Buenos Aires, Argentina
 Andres Redchuk, ETSII, Computer Sciences, Universidad Rey Juan Carlos, Madrid, Spain
 Julian Eloy Tornillo, Engineering Faculty, Universidad Nacional de Lomas de Zamora, UNLZ., Buenos Aires. Argentina

8:00 – 9:45 am, MONDAY**Business Management****Virtual Room 6**

Session Chair: Vinod Kumar Yadav, Associate Professor, Harcourt Butler Technical University, Kanpur- 208001, India

ID 369 A Differentiative Approach in Organizational Agility in Service & Manufacturing Industries

Vinod Kumar Yadav, Associate Professor, Department of Humanities, School of Humanities & Social Sciences, Harcourt Butler Technical University Kanpur- 208001, India
 Almas Tasneem, UGC-Junior Research Fellow, Department of Humanities, School of Humanities & Social Sciences, Harcourt Butler Technical University, Kanpur- 208001, India

ID 455 An Analysis of Use Behavior Through Behavioral Intention Of E-Wallet Using SEM-PLS

Annisa Prameswariputri and Khairani Ratnasari Siregar, Faculty of Economic and Business, Telkom University, Bandung, Indonesia

ID 466 The Influence of Business Strategy, Asset Management and Capital Structure on the Financial Performance of the Food and Beverage Industry Listed on the Indonesia Stock Exchange (IDX)

Leny Suzan and Anisa Ramadhanti, Faculty of Business and Economics, Telkom University, Dayeuhkolot, 40257, Kabupaten Bandung, Indonesia

ID 467 The Influence of Leverage, Liquidity, Investment Opportunity Set, Free Cash Flow and Asset Growth on Dividend Policy Case Study on Mining Sector Companies Listed on the Indonesia Stock Exchange (IDX) in 2017-2020

Farida Titik Kristanti, Faculty of Business and Economic, Telkom University, Dayeuhkolot, 40257, Kabupaten Bandung, Indonesia
 Ni Made Swasti Mega Putri, Faculty of Business and Economic, Telkom University, Dayeuhkolot, 40257, Kabupaten Bandung, Indonesia

ID 475 An Assessment of the Foreign Debt Management in Sierra Leone: Case Study- Ministry of Finance

Alimamy Kamara and Osman Angeles Conteh, Students of the University of Sierra Leone

ID 480 The Influence of Intellectual Capital and Good Corporate Governance on Profitability at Conventional Commercial Banks in Indonesia

Leny Suzan and Wafa Hadiya Sabila, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 481 A Systematic Literature Review: Implementation of Quality Control in Improving the Quality and Quality of Red Bricks

Haryadi Sarjono, BINUS Business School Undergraduate, Bina Nusantara University, Jl. K.H. Syahdan No.9, Palmerah, Jakarta Barat, Indonesia
 Popi Ariska, Sekolah Tinggi Ilmu Ekonomi Bisnis Indonesia, Management, Jl. Kebayoran Lama No. 46, South Sukabumi, West Jakarta, Indonesia

July 25 (MONDAY) - Session: 10:00 – 11:45 am**10:00 – 11:45 am, MONDAY****Undergraduate Paper Competition****Virtual Room 1**

Session Chair: Dr. Mario Fargnoli, Universitas Mercatorum, Rome, Italy

ID 258 An assessment of the Interactive Game for Mental Recollection (SuSci) to determine strategies

Christine Anne A. Arches, John Oliver M. Datu, Ethan Enrico U. Eseo, Grace Lorraine Intal and Cristina Pascua, School of Information Technology Mapúa University, Makati, Philippines

ID 301 Real Estate Investment Decision Making Model

Dr. Sobhi Mejjaouli, Department of Industrial Engineering, Alfaisal University, Riyadh, Saudi Arabia
Abdulaziz Albalwi, Industrial Engineering Student, Alfaisal University, Riyadh, Saudi Arabia
Abdulrahman Alazzam, Industrial Engineering Student, Alfaisal University, Riyadh, Saudi Arabia

ID 453 Impact of the preschool program on the socio-connective variables developed by the beneficiary children: The case of rural Morocco

Soumia Ettahri, PhD student, Laboratory of Economics and Management of Organizations, Faculty of Law, Economics and Social Sciences, Ibn Toufail University Kenitra, Morocco
Rachid Hasnaoui, Professor, Laboratory of Economics and Management of Organizations, Faculty of Law, Economics and Social Sciences, Ibn Toufail University, Kenitra, Morocco

ID 454 Lean Implementation to Reduce Process Waste: A Case Study

Nawang Putri Salsabila and Tasya Santi Rahmawati, Undergraduate Program in Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia
Bambang Suhardi and Retno Wulan Damayanti, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 457 Factors on Determining Audit Delay: Evidence from Indonesia

Dhitiya Atika Susilawati and Dedik Nur Triyanto, Faculty of Economics and Business, Telkom University, Bandung, 40257, Indonesia

ID 465 The Influence of XBRL, Independent Commissioner, Management Ownership, and Operation Complexity on Timeliness of Financial Reporting: Evidence from Indonesian Energy Sector

Dedik Nur Triyanto and Aurelia Widya Kusumaningtyas, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 579 The Influence of Company Size, Institutional Ownership, Financial Distress and Implementation of IFRS on Timeliness of Financial Statement Submission

Desiana Woro Pawestri, Student, Accountancy, Faculty of Economics and Business, Telkom University, Buah Batu, Bandung, West Java, Indonesia
Kurnia, Faculty of Economics and Business, Telkom University, Buah Batu, Bandung, West Java, Indonesia

ID 580 The Role of Training and Competence in Improving The Performance of Central Lombok Police Personnel

Melinda Umpu Sila, Faculty of Economics and Business, Universitas Telkom, Indonesia
Dian Indiyati, Faculty of Economics and Business, Universitas Telkom, Indonesia

10:00 – 11:45 am, MONDAY**Doctoral Dissertation Competition****Virtual Room 2**

Session Chair: Judging Committee Chair

ID 6 Multi-Optimization of Line Start Permanent Magnet Assistance Synchronous Reluctance Considering Skewed Effect and Demagnetization

1Bui Minh Dinh, Hanoi University of Science and Technology (HUST), Vietnam
Faculty of Electrical-Electronic Engineering, University of Transport and Communications (UTC), Vietnam

ID 273 MABENA: An Innovative Model for Strategic Planning and Management (Model Description with a Case Study)

Kaveh Mohammad Cyrus, Industrial Engineering Faculty, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
Hossein Bahramipour, M.Sc. Student in Industrial Engineering, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
Iman Naderi, M.Sc. Student in Industrial Engineering – Project Management, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran

ID 282 Managing Projects Under Different Payment Schemes

Juan Zhao, School of Management and Economics, University of Electronic Science and Technology of China, Chengdu, China
Yinping Mu, School of Management and Economics, University of Electronic Science and Technology of China, Chengdu, China

ID 447 Assessing the Benefit B2b E-Commerce Consulting Platform to Increasing Sme Competitive Advantage

Siu Min, Doctor of Research in Management, BINUS Business School, Bina Nusantara University, Jl. Hang Lekir I No. 6, Senayan, Kebayoran Baru, Jakarta Selatan, DKI Jakarta, Indonesia
Mts. Arief, Doctor of Research in Management, BINUS Business School, Bina Nusantara University, Jl. Hang Lekir I No. 6, Senayan, Kebayoran Baru, Jakarta Selatan, DKI Jakarta, Indonesia

ID 581 The Sustainable Agents of Habitus and Capital on Prospective Kenshūsei (Training) and Jisshūsei (Intern Training)

Roberto Masami Prabowo, Faculty Member – Lector, Faculty of Humanities, Japanese Literature of Bina Nusantara University, Jakarta, Indonesia
Dade Mahzuni, Senior Lecturer, Faculty of Cultural Sciences, History Studies of Padjadjaran University, Bandung, Indonesia
Yuyu Yohana Risagarniwa, Associate Professor, Faculty of Cultural Sciences, Culture Studies of Padjadjaran University, Bandung, Indonesia
Putri Andam Dewi, Faculty Member – Lector, Faculty of Humanities, Japanese Literature of Bina Nusantara University
Jakarta, Indonesia

ID 616 Comparison of the Application of Different Machine Learning Outlier Detection Methods on Actual Chemical Process Plant Data

Mohammed Alkatheri, Department of Chemical Engineering, University of Waterloo, Waterloo, Ontario, N2L 3G, Canada
Ali Almansoori, Professor of Chemical Engineering and Associate Provost for Education, Khalifa University of Science and Technology, Abu Dhabi, UAE
Peter L. Douglas, Professor of Department of Chemical Engineering, University of Waterloo, Waterloo, Ontario, N2L 3G, Canada

Ali Elkamel, Professor of Department of Chemical Engineering, University of Waterloo, Waterloo, Ontario, N2L 3G, Canada

ID 615 Optimal Design and Operation of a Renewable Energy-based Polygeneration System: A Deterministic Approach

Tuhin Kanti Poddar, Peter L. Douglas and Ali Elkamel, Department of Chemical Engineering, University of Waterloo, Ontario, Canada
Ali Almansoori, Professor of Chemical Engineering and Associate Provost for Education, Khalifa University of Science and Technology, Abu Dhabi, UAE

10:00 – 11:45 am, MONDAY

Industrial Management

Virtual Room 3

Session Chair: Imane Moufid, National School of Applied Sciences university campus, BP 241, Kenitra - Morocco

ID 18 Systems Theory and Evidence-Based Decision Making as Keys for Arbitrating between Optimal Production and Efficient Maintenance: A Case Study

Anouar Hallioui, Industrial Techniques Laboratory, Center for Doctoral Studies in Sciences and Techniques and Medical Sciences, Faculty of Sciences and Techniques of Fez, Sidi Mohamed Ben Abdellah University, Fez 2202 - Imouzzer road, Morocco
Brahim Herrou, Superior School of Technology of Fez, Sidi Mohamed Ben Abdellah University, Fez 2427 - Imouzzer road, Morocco
Industrial Techniques Laboratory, Center for Doctoral Studies in Sciences and Techniques and Medical Sciences, Faculty of Sciences and Techniques of Fez, Sidi Mohamed Ben Abdellah University, Fez 2202 - Imouzzer road, Morocco
Ricardo S. Santos, GOVCOOP, University of Aveiro, 3810-193 Aveiro, Portugal
Mechanical Engineering Department, ISEL, Polytechnique Institute of Lisbon, Lisbon, 1959-007, Portugal
Polinpapilinho F. Katina, Department of Informatics and Engineering Systems, University of South Carolina Upstate, 800 University Way, Media 211, Spartanburg, SC 29303, USA
Hassan Khadiri, Industrial Techniques Laboratory, Center for Doctoral Studies in Sciences and Techniques and Medical Sciences, Faculty of Sciences and Techniques of Fez, Sidi Mohamed Ben Abdellah University, Fez 2202 - Imouzzer road, Morocco

ID 81 Factors Determining the Behavioral Intention to use ConSite Application for Heavy Machine Management System: Using TAM 2 Model

Mukromin Kamal, Ryan Andriadi and Habib Herwanto, Undergraduate Students, Management Department, Faculty of BINUS Online Learning Bina Nusantara University, Jakarta, Indonesia
Lianna Wijaya, Faculty Member, Management Department, Faculty of BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia

ID 161 Comparison of Porter's Generic Strategies in Indonesia's Fashion Retail Companies: A Case Study

Aqil Athalla Reksoprodjo, Hafizh Rifqi and Muthia Khadijah, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Indonesia

ID 178 Analysis of Cost Leadership Strategy in Cosmetic Industry

Fauzia Ashwin Hadits, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Indonesia
Giri Aji Anggoro, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Indonesia
Putri Aysha Qalbi, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Indonesia

ID 191 Strategic Implementation Comparison of the Indonesian Telecommunications Industry along Pre-Pandemic until Post-Pandemic Covid 19 Era

Alwin Ponco Nugroho, Hanif Hamdani and Ilham Nur Pratama, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia Depok, Indonesia

ID 193 Analysis of Business Strategy in Logistics Companies as Contract Logistics of Finished Goods in The Technology Sector

Luthfi Azmaiza Hadsyah, Taufik Rizkiandi and Tody Isfitazli, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia Jakarta, Indonesia

ID 336 Optimizing Agent Productivity of Rider Support for a food delivery app

Noura Bin Yousef, Lujain Bamuflih and Najd AlHammad, Supervised by: Sobhi Mejjaoui, Department of Industrial Engineering, Alfaisal University Riyadh, 11533, Kingdom of Saudi Arabia

ID 496 Study of the effects of heat treatment on the quality of mechanical transmission Half Shaft by the Analytical Hierarchy Process (AHP)

Imane Moufid, Oussama Bouazaoui and Ismail Lagrat, Advanced Systems Engineering (ISA), National School of Applied Sciences university campus, BP 241, Kenitra - Morocco

10:00 – 11:45 am, MONDAY

Human Factors and Ergonomics

Virtual Room 4

Session Chair: Saed T. Amer, Faculty of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE

ID 315 Investigating the Effect of Seat Features and Cushion Material on Seat Comfort using Finite Element Analysis

Hala Bermamet, Shayaan Syed, and Saed Amer, Department of Industrial and Systems Engineering, Khalifa University, Abu Dhabi, UAE

ID 325 Assessment of 18-Seater Vans to Determine Seating Comfortability of Passengers for UV Express Service Vans in the Philippines

Ryan Mark R. Silvestre and Almarose C. Villapando, School of Industrial Engineering and Engineering Management, Mapúa University 685 Muralla St., Intramuros, Manila 1002, Philippines

ID 337 Role of Career Development and Job Satisfaction for Employee Engagement for Start-ups

Muhamad Imam Mustaqim, Student of Magister Management, Faculty of Economics and Business, Telkom University, Bandung, Indonesia
Fetty Poerwita Sary, Lecturer of Magister Management, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 340 Conceptualization Theory of Employee-People Brand Community

Aini Farmania, Fulltime Lecturer, Faculty of Management Department, BINUS Business School University, Jakarta, Indonesia
 Riska Dwindi Elsyah, Management Program, Bakrie University, Jakarta Indonesia

ID 401 Work Productivity and Human Wellbeing in Offices Using Natural Light VS Artificial Light

Asmaa Alsereidi, Department of Engineering in Health, Safety and Environment, Khalifa University, Abu Dhabi, UAE
 Hasan Alhammedi, Department of Engineering in Health, Safety and Environment, Khalifa University, Abu Dhabi, UAE
 Dr. Saed Talib Amer, Department of Industrial and Systems Engineering, Khalifa University, Abu Dhabi, UAE

ID 432 Goods-to-Person Picking Strategies Human Factor Simulation and Validation

Fatma Almazrouei, Student of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE
 Alreem Almansoori, Student of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE
 Maryam Aldhamani, Student of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE
 Sara Alhosani, Student of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE
 Saed T. Amer, Faculty of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE

10:00 – 11:45 am, MONDAY

Business Management

Virtual Room 5

Session Chair: Arief Nurdini, Universitas Indonesia

ID 198 Implementation of Cost Leadership Strategy in Indonesian Fertilizer Company

Arief Nurdini, Elsa Wahyu Harliana and Lathifah Karina Putri, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia
 Kampus UI Depok, 16424, Indonesia

ID 200 Internal and External Assessment for Cyber Defense Platform Startup

Ardhy Lazuardy, Nadya Tamara Genta Maharani, and Tamara Rahma Widowati, Industrial Engineering Department, Faculty of Engineering
 Universitas Indonesia, Depok, Indonesia

ID 201 How to Enhance Purchase Intention in Dry Port Service Business

Darjat Sudrajat, Engkos Achmad Kuncoro, Aini Farmania, Michael Dimas Abi Birowo, and Achmad Ichsan Aryobimo, Management Department,
 BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 334 Do Training, Development and Competence on Digitalization Increase HR Performance MSMEs in The Covid-19 Pandemic?

Rini Kurnia Sari, Lecturer, Management Department, BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia
 Raden Ajeng Almadiira Dzakhirah, Student, Management Department, BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia
 Komarul Hidayat, Student, Management Department, BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia
 Nur Anesfa Ramadhana, Student, Management Department, BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia

ID 342 Exploring Public Knowledge Worker Well-Being Using Rasch Model

Maria Grace Herlina and Dicky Hida Syahchari, Senior Lecturer, Management Department, BINUS Business School Undergraduate Program
 Bina Nusantara University, Jakarta, Indonesia

ID 343 The Impact of Service Quality and Price on Customer Satisfaction in Building Customer Loyalty

Maria Grace Herlina, Senior Lecturer, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University
 Jakarta, Indonesia
 Dewi and Johanne Jodie Aurelia, Senior Lecturer, Senior Student, Business Creation Program, Management Department, BINUS Business School
 Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 368 The Influence of Pro-Environmental Behaviour on the Leadership for Sustainability Among Employees in Jakarta

Maria Grace Herlina, Senior Lecturer, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University
 Jakarta, Indonesia
 Rivaldo, Senior Student, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 594 Developing Strategy in Pandemic Era: Analyzing, Formulating, and Prioritizing Alternative Rice Milling Strategies

Febby Candra Pratama, Agung Purnomo, Riza Rizqiyah, and Riefky Prabowo, Entrepreneurship Department, BINUS Business School,
 Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

10:00 – 11:45 am, MONDAY

Business Management

Virtual Room 6

Session Chair: Widi Sriwahyuni Pasaribu, Department of Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 583 Innovation and Implementation of Enterprise Resource Planning: A Literature Review

Muhammad Hikmatrizqi Purnama, Gerald Solihin, and Noerlina, Information Systems Department, School of Information Systems, Bina Nusantara
 University, Jakarta, Indonesia
 Tirta Nugraha Mursitama, International Relations Department, Faculty of Humanities, Bina Nusantara University, Jakarta, Indonesia

ID 617 Process Mining Applications in Government Sector: A Systematic Literature Review

Dias Rawiro, BINUS Graduate Program, Doctor of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia
 Ford Lumban Gaol, BINUS Graduate Program, Doctor of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia
 Suhono Supangkat, Smart City dan Community Innovation Center, Bandung Institute of Technology, Bandung 40116 Bandung
 Benni Ranti, Computer Science Department, Faculty of Computer Science, Universitas Indonesia, Depok, Indonesia

ID 618 Development of a Conceptual Framework for Quality Management System Implementation in Small and Medium Enterprises in South Africa

Aluwani Yvonne Magodi, Department of Industrial Engineering, University of South Africa, South Africa

Ilesanmi Daniyan and Khumbulani Mpofu, Department of Industrial Engineering, Tshwane University of Technology, Pretoria, South Africa

ID 623 Assessing the Implementation Challenges of Industrial IoT for Electronics Manufacturing Industry of Bangladesh

Subrata Talapatra and Ali Al Mamun, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna-9203, Bangladesh.

ID 595 A Linguistic MCDM Methodology to Investigate Enablers for Food Security in Sustainable Agri-Food Chains

Deniz Uztürk, Department of Management, Business Research Center, Galatasaray University, Ortaköy, Istanbul, Turkey
Gülçin Büyükköçkan, Professor, Department of Industrial Engineering, Galatasaray University, Ortaköy, Istanbul, Turkey

ID 593 Carbon Footprint and the Adoption of Supply Routing Tactics in Multi-Facility Networks

Seyed Mehdi Zahraei, Senior Lecturer, School of Business, Singapore University of Social sciences, Singapore

ID 559 The Effect of Content Marketing Instagram Sociolla on Customer Engagement, Customer Decision, Customer Satisfaction, and Customer Loyalty

Widi Sriwahyuni Pasaribu, Department of Faculty of Economics and Business, Telkom University, Bandung, Indonesia
AMA Suyanto, Department of Faculty of Economics and Business, Telkom University, Bandung, Indonesia

July 25 (MONDAY) - Session: 12:00 – 1:45 pm

12:00 – 1:45 pm, MONDAY

Undergraduate Research Competition

Virtual Room 1

Session Chair: Judging Committee Chair

ID 2 A Comparative Study of Cognitive Factors Affecting Social Distancing Among Vaccinated and Unvaccinated Filipinos

Belara. Emmanuel Carlo, Dela Merced, Albert John, Dominguez, Mark Anthony, Erasga, Diomari, Ferrer, Jerome, Ombrog and Bernard, Technological Institute of the Philippines, College of Engineering and Architecture, Industrial Engineering Department, 938 Aurora Blvd., Cubao, Quezon City, Philippines

ID 32 Agility in Resilient Supply Chain Risk Management Design to Cope with Supply Shortage under Covid-19 Pandemic: Simulation-based Supplier Strategy

Sheren Aurelia Dyka Chandra, Department of Industrial and Systems Engineering, Faculty of Engineering, The Hong Kong Polytechnic University, Hung Hom, Hksar, China
C.K.M. LEE, Associate Professor, Department of Industrial and Systems Engineering, Faculty of Engineering, The Hong Kong Polytechnic University, Hung Hom, Hksar, China

ID 103 Aggregate Inventory Control Using EOQ and ROP Models Boost Efficiency During Pandemic

Adi Teguh Suprpto, Alysa Nahdah, Lolita Wahyuningrum and Nahdia Aisya, Management Department, Binus Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 205 A Correlation Study of Perceived Stress and Performance of Internship of Graduating Students

Wendell Gil L. Atencia, Rinzel Janelle M. Co, Lara Camille V. Gicale, Richard D. Lumokso, Jessica I. Regondola, Coleen Charlotte O. Simon and Lemuel Edwin L.Tan, Department of Industrial Engineering – College of Engineering and Architecture, Technological Institute of the Philippines Cubao, Quezon City Philippines

ID 319 Arabic Food Category Recognition and Calorie Estimation Using AlexNet CNN Architecture

Tasneem Istanbuli, Zainab Salem Hussain, Asma Altoorah and Takeaki Toma, College of Engineering and Technology, Faculty of Industrial Engineering, American University of the Middle East, Egaila, Kuwait

ID 392 Utilizing Machine Learning to enhance risk assessment at Tamara

Dr. Sobhi Mejjaouli, Department of Industrial Engineering, College of Engineering, Alfaisal University, Riyadh 11451, Saudi Arabia
Noura AlMandeel, Department of Industrial Engineering, College of Engineering, Alfaisal University, Riyadh 11451, Saudi Arabia
Nouf AlSultan, Department of Industrial Engineering, College of Engineering, Alfaisal University, Riyadh 11451, Saudi Arabia
Hind AlBabtain, Department of Industrial Engineering, College of Engineering, Alfaisal University, Riyadh 11451, Saudi Arabia

ID 441 Design of an Integrated Risk Management System

Volkan Çakir, Assistant Professor of Practice, Faculty of Industrial and Mechanical Engineering, Lebanese American University, Lebanon
Sasha Nasser, Industrial Engineering Senior Student, Faculty of Industrial and Mechanical Engineering, Lebanese American University, Lebanon
Jana Hilal, Industrial Engineering Senior Student, Faculty of Industrial and Mechanical Engineering, Lebanese American University, Lebanon
Sym Bou Zeid, Industrial Engineering Senior Student, Faculty of Industrial and Mechanical Engineering, Lebanese American University, Lebanon
Grace Berdkan, Industrial Engineering Senior Student, Faculty of Industrial and Mechanical Engineering, Lebanese American University, Lebanon

ID 578 The Effect Of Leverage, Profitability, Company Size, and Political Connection on Tax Avoidance

Khairunnisa, Lecture, Faculty of Economics and Business, Bandung – Telkom University, Indonesia
Ratna Angyani, Student, Faculty of Economics and Business, Bandung – Telkom University, Indonesia

12:00 – 1:45 pm, MONDAY

Master Thesis Competition

Virtual Room 2

Session Chair: Judging Committee Chair

ID 5 Optimization Approach for the Design of IPM Synchronous Motor for Express MotorCycle

Bui Minh Dinh, School of Electrical Engineering, Hanoi University of Science and Technologies, Vietnam

ID 7 Peak Torque Evaluation of IPM 150kW for EVs

Bui Minh Dinh, Hanoi University of Science and Technology (HUST), Vietnam
 Nguyen Chi Dung, Hanoi Viettel High Technology (VHT), Vietnam

ID 8 Optimal Design of Induction Motor using Genetic Algorithm with Different Rotor Slot Number

Bui Minh Dinh, School of Electrical Engineering and Electronics, Hanoi University of Science and Technology, Vietnam
 Nguyen Viet Anh, Hanoi University of Industry, Vietnam

ID 223 The Power of Mind Control

Ali Majed, Master of Science in Engineering Management, Rochester Institute of Technology, Dubai, UAE
 Dr Slim Saïdi, Associate Professor of Industrial Engineering, Rochester Institute of Technology, Dubai, UAE

ID 338 Fostering workforce engagement in Industry 4.0 through development plans: concept, model and prototype of a digital tool

Tiago Bastos, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal
 Juliana Salvadorinho, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal
 Leonor Teixeira, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), Institute of Electronics and Informatics Engineering of Aveiro (IEETA), University of Aveiro, Aveiro, Portugal

ID 345 Sustainable municipal service delivery through a real-time integrated collaborative model: A case study

Job Katlego Ditshego and Jan Harm C. Pretorius, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 563 Effect of Emotional Intelligence and Competency On Lecturer's Performance

Muji Gunarto, Management Department of Economics and Business Faculty, Universtas Bina Darma, Palembang, Indonesia
 Alfi Nura, Management Department of Economics and Business Faculty, Universtas Negeri Medan, Indonesia
 Pitri Yanti, Masters Student of Management, Postgraduate Program, Universitas Bina Darma, Palembang, Indonesia.

12:00 – 1:45 pm, MONDAY**Business Management****Virtual Room 3**

Session Chair: Sambil Charles Mukwakungu, Department of Quality and Operations Management, University of Johannesburg, South Africa

ID 87 The Management of Change and Organizational Culture within the Media Industry in South Africa

Sambil Charles Mukwakungu, Portia Makamu and Nita Sukdeo, Department of Quality and Operations Management, University of Johannesburg Johannesburg, South Africa

ID 92 Effect of Entrepreneurial Marketing on Innovative Capability in Coffee Shop Industry

Teguh Sriwidadi, Hartiwi Prabowo, and Ridho Bramulya Ikhsan, Management Department, BINUS Online Learning, Bina Nusantara University Jakarta, Indonesia

ID 93 Effect of Entrepreneurial Marketing on Innovative Capability in Coffee Shop Industry

Teguh Sriwidadi, Hartiwi Prabowo, and Ridho Bramulya Ikhsan, Management Department, BINUS Online Learning, Bina Nusantara University Jakarta, Indonesia

ID 94 Effect of Entrepreneurial Marketing on Innovative Capability in Coffee Shop Industry

Teguh Sriwidadi, Hartiwi Prabowo, and Ridho Bramulya Ikhsan, Management Department, BINUS Online Learning, Bina Nusantara University Jakarta, Indonesia

ID 110 Systematic Literature Review: Employee Stress Levels During A Pandemic in The Manufacturing Industry

Haryadi Sarjono, Adi Teguh Suprpto, Juliann Virginia, Metta Phannadhika, Mirza Nurrahman and Teddy Hartono, BINUS Business School Undergraduate, Bina Nusantara University, Jl. K.H. Syahdan No.9, Palmerah, Jakarta Barat, Indonesia

ID 111 Defensive Strategy Living and Rising from Industry Tourist During Time Pandemic

Haryadi Sarjono and Hendry Hartono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia
 Renwarin William Renato, Hadi Surya, Stefanus Krisna Wahyu and Enrico Matthew Chandra, BINUS Business School Undergraduate, Bina Nusantara University; Ring Road Boulevar Blok WA No.1 Summarecon Bekasi Ex, RT.006/RW.003, Marga Mulya, Kec. North Bekasi, Bks City, West Java, Indonesia

ID 116 Business Ethics 4.0 Industrial Revolution Era: Systematic Literature Review

Haryadi Sarjono, Okta Prihatma Bayu Putra, Andrew P. Purnawan, Sultan R. A. Radhi, Vincent Polim and Yohanes, BINUS Business School Undergraduate, Universitas Bina Nusantara, Jl. KH Syahdan No. 9, Palmerah, Jakarta Barat, Indonesia

12:00 – 1:45 pm, MONDAY**Design****Virtual Room 4**

Session Chair: Jonathan Pellondou, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

ID 275 Electric Vehicle for Mobility of Disabled People in Indoor Public Environment

Ilenia Cataldo, Master's degree student, Dept. of Civil Engineering and Architecture Sciences, Faculty of Industrial Design, Politecnico di Bari, Italy
 Fabio Ferrante, Master's degree student, Department of Civil Engineering and Architecture Sciences, Faculty of Industrial Design, Politecnico di Bari Bari, Italy
 Piera Losciale, Master's degree student, Department of Civil Engineering and Architecture Sciences, Faculty of Industrial Design, Politecnico di Bari Bari, Italy
 Paolo Ferrari, Adjunct Professor, Dept. of Civil Engineering and Architecture Sciences, Faculty of Industrial Design, Politecnico di Bari, Bari, Italy
 Giovanni Pappalettera, Associate Professor, Department of mechanics, mathematics & management, Politecnico di Bari, Bari, Italy

ID 471 Design and Implementation of Krucuk Website as a Culinary Information Center in Malang City using Agile Software Method

Jonathan Pellondou, Honggo Sanjaya, Safira Cahyani and Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

ID 472 Mobile App Japanese Food Expert: Posting and Sharing Japanese Restaurant in Malang

Yutaro Tanaka, William Deovaldo, Rizky Octavian Dwipratama and Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

ID 483 A Bibliometric Analysis of Design Thinking Research

Novida Nur Miftakhul Arif and Donna Carollina, Visual Communication Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia

Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

Febby Candra Pratama and Riefky Prabowo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 528 Evaluation of User Interaction in Virtual Showroom in Car Industries in Indonesia

Yosica Mariana, Associate Professor, Architecture Department, Binus University, Jakarta, Indonesia

Ezra Peranginangin, Assistant Professor, Industrial Engineering, Binus University, Jakarta, Indonesia

ID 536 Colors in User Interface Design: A Review and Bibliometric Analysis

Donna Carollina, Visual Communication Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia

Fairuz Iqbal Maulana and Albert Verasius Dian Sano, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 537 The Function of Color as Brand Identity: A Bibliometric Analysis and Research Trends

Donna Carollina, Visual Communication Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia

Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

12:00 – 1:45 pm, MONDAY

Human Factors and Ergonomics

Virtual Room 5

Session Chair: Ma. Janice J. Gumasing, Mapúa University, Intramuros, Manila, Philippines

ID 450 Stature Estimation Using Sitting Knee Height and Sitting Shoulder Height of the Bangladeshi Population

Md. Imran Hossain, Chowdhury Sakib-Uz-Zaman, Mushaer Ahmed, Md. Shovon Zahid and Md. Ashfaqur Arefin, Department of Industrial and Production Engineering, Dhaka University of Engineering and Technology, Gazipur-1707, Bangladesh

ID 479 Retrospective Studies of Human-Centric in Creative Thinking Research

Asri Radhitanti, Donna Carollina and Miranti Nurul Huda, Visual Communication Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia

Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta,

Faizal Ardiansyah, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

ID 485 Work Satisfaction and Organizational Commitment Impact to Turn Over Intention in XXX Bank Papua Indonesia

Puspita Wulansari, Senior Lecturer, School of Economics and Business, Telkom University-Indonesia

Indah Diah Pratiwi, Student, School of Economics and Business, Telkom University-Indonesia

ID 498 Effect of Perceived Line Manager Relationship and Working Environment to Intention to Stay in Ceramic & Glass Manufacturing Company

Yussy Santoso, Management Department, Binus Business School Doctor of Research in Management, BINUS Business School, Bina Nusantara University, Jl. Hang Lekir I No. 6, Senayan, Kebayoran Baru, Jakarta Selatan, DKI Jakarta, Indonesia

Mohammad Hamsal, Management Department, Binus Business School Doctor of Research in Management, BINUS Business School, Bina Nusantara University, Jl. Hang Lekir I No. 6, Senayan, Kebayoran Baru, Jakarta Selatan, DKI Jakarta, Indonesia

Asnan Furinto, Doctor of Research in Management, BINUS Business School, Bina Nusantara University, Jl. Hang Lekir I No. 6, Senayan, Kebayoran Baru, Jakarta Selatan, DKI Jakarta, Indonesia

Rano Kartono, Doctor of Research in Management, BINUS Business School, Bina Nusantara University, Jl. Hang Lekir I No. 6, Senayan, Kebayoran Baru, Jakarta Selatan, DKI Jakarta, Indonesia

ID 523 Mapping Research Trend of Human-Centered Design

Donna Carollina, Visual Communication Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia

Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

R Aditya Kristamtomo P, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Faizal Ardiansyah, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

ID 532 Effects of Noise Sources on the Perceived Task Performance of Students during Online Class

Jeunise A. Piamonte, Eunice Gabrielle A. Reyes, Krizia Ein Z. Saguibo, Clarice Ann M. Verdeflor, and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

12:00 – 1:45 pm, MONDAY

Business Management

Virtual Room 6

Session Chair: Aisha Hafiza S., Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 162 Alternative Business and Operational Strategies of an Airport Service Company

Bonang Ananta Sakti, Haikal Rastinggi and Made Nindya Kirana, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia Jawa Barat, Indonesia

ID 174 Porter's Generic Strategies: A Case Study of The Transition of Indonesian Conventional Taxi Company to An Online Based

Aliya Qonita, Industrial Engineering Department, Faculty of Engineering, University of Indonesia, Depok, West Java, Indonesia
 Djoko Nurprawito, Industrial Engineering Department, Faculty of Engineering, University of Indonesia, Depok, West Java, Indonesia
 Marissa Puspita, Industrial Engineering Department, Faculty of Engineering, University of Indonesia, Depok, West Java, Indonesia

ID 181 Emergent Strategies from COVID-19 Pandemic on Indonesian Medical Equipment Manufacturer

Rifqi R Prathama, Daffa R Kaiyandra and Muhammad Habiburrahman, Department of Industrial Engineering, Faculty of Engineering Universitas Indonesia, Depok, West Java, Indonesia

ID 183 Effective Leadership style for Generation Z

Diena Dwidienawati, Dicky Hida Syahchari and David Tjahjana, Management Program, BINUS Business School Undergraduate Program, Bina Nusantara University, Indonesia and Universitas Multimedia Nusantara

ID 194 Improving Entrepreneurial Orientation Through Entrepreneurship Motivation and Innovation Capability

Dicky Hida Syahchari and Diena Dwidienawati, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
 Yopy Maulana, Tourism Destination Department, Faculty of Digital Communication and Hospitality and Tourism, Bina Nusantara University, Jakarta, Indonesia

ID 195 Effect of Brand Psychological Ownership and Value Congruity to Brand Attachment and Behavioral Brand Loyalty through Customer Brand Engagement

Teguh Sriwidadi, Hartiwi Prabowo, Rini Kurnia Sari, Finddy Wong and Muhammad Alfarizi, Management Department, BINUS Online Learning Bina Nusantara University Jakarta, Indonesia

ID 196 Implementation of Porter's Generic Strategy in Indonesian MRO Company Post COVID-19 Pandemic

Aisha Hafiza S. and Panji Pratama Hendra Surya, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

July 25 (MONDAY) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, MONDAY**Senior Design Competition****Virtual Room 1**

Session Chair: Prof. Don Reimer, IEOM

ID 70 Designing a Storage Facility Using the Value Engineering Method for the Semi-Finished Leather Shoe Product: A Case Study on Small Leather Shoes Industry in Indonesia

Amanda Syifa Ariqoh, Calvin William Santosa, Aditya Mahendra and Amelia Kurnia Mahardina, Undergraduate Program in Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 460 Mental Workload Measurement of ICU Nurses by Using NASA-TLX Method

Abrar Alshemali, Eiman Alikhan, Fatemah Alenezi, Saja Abdulsalam, Wuroud Alhajri, and Suat Kasap, College of Engineering and Technology, Industrial Engineering Department, American University of the Middle East, Eqaila, Kuwait

2:00 – 3:45 pm, MONDAY**Master Thesis Competition****Virtual Room 2**

Session Chair: Judging Committee Chair

ID 433 Blockchain Role in Supply Chains during the Covid-19 Pandemic.

Mohamed Grida, Associate Professor, Faculty of Engineering, Zagazig University, Egypt
 Gawaher Soliman, Assistant Professor, Faculty of Computer and Informatics, Zagazig University, Egypt
 Mirna Magdy, Teaching Assistant, Faculty of Computer and Informatics, Zagazig University, Egypt

ID 534 E-roadmap to support the Digital Transformation: study, design and development of a tool to accelerate digitalization in lean companies

Juliana Basulo Ribeiro, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal
 Marlene Amorim, Research Unit on Governance, Competitiveness and Public Policies (GOVCOPP) and Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal
 Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Governance, Competitiveness and Public Policies (GOVCOPP), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro Portugal

ID 538 The Effect of Remuneration and Work Environment on Job Satisfaction and its Impact on Performance at Public Institution

Restu Amalia, Forester & Masters Students of Management, Postgraduate Program's, Universitas Bina Darma, Palembang, Indonesia.
 Muji Gunarto, Management Department of Economics and Business Faculty, Universitas Bina Darma, Palembang, Indonesia

ID 539 The Impact of the Covid-19 Pandemic on the Behavior of Teachers and Junior High School Students in Palembang City

Meita Putri Utama, Civil servant & Masters Students of Management, Postgraduate Program's, Universitas Bina Darma, Palembang, Indonesia
 Muji Gunarto, Management Department of Economics and Business Faculty, Universitas Bina Darma, Palembang, Indonesia

ID 540 Analysis of Land and Building Taxpayer Compliance in Palembang City

Sylvia Martha Mozi, Civil Servant & Masters Students of Management, Postgraduate Program's, Universitas Bina Darma, Palembang, Indonesia
 Muji Gunarto, Management Department of Economics and Business Faculty, Universitas Bina Darma, Palembang, Indonesia

ID 619 Anomaly Detection for insider threat using user

Anand Sagar, M. Tech Cyber Security, Cyber Security technology division, CDAC Mohali, India

Gurmohan Singh, Joint Director, Cyber Security technology division, CDAC Mohali, India

2:00 – 3:45 pm, MONDAY**Business and E-Commerce****Virtual Room 3**

Session Chair: Grace Lorraine Intal, School of Information Technology Mapua University, Intramuros, Manila, Philippines

ID 44 Socialization interaction Model Increase Knowledge Transfer in E-learning for Student in Higher Education

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Rivaldhy N. Muhammad, Study Program of Law, Faculty of Law, Social and Political Sciences, Open University, Indonesia
 Sugeng Riyanto, STIE Pertiwi, Bekasi, Indonesia
 Siti Elda Hiererra, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Enggal Sriwardiningsih, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
 Prasetya Cahya S, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Nico Djundharto Djajasinga, Politeknik Transportasi Darat Indonesia
 Destiana Kumala, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Bogor, Indonesia

ID 79 Antecedents of the Online Shopping Behavior during the COVID-19 Pandemic

Dhafin Khairi Ma'mun, Rieska Aprillia, and Riko, Undergraduate Students, Management Department, Faculty of BINUS Online Learning
 Bina Nusantara University, Jakarta, Indonesia
 Lianna Wijaya, Faculty Member, Management Department, Faculty of BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia
 Dhafin Khairi Ma'mun, Rieska Aprillia, and Riko, Undergraduate Students, Management Department, Faculty of BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia
 Lianna Wijaya, Faculty Member, Management Department, Faculty of BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia

ID 226 Some e-Government challenges in South Africa. A Review of the Literature

L T Mabinane, Emmanuel Innocents Edoun, Charles Mbohwa and N. Sukdeo, Department of Quality and Operations Management, University of Johannesburg, South Africa

ID 227 Multilevel Integration in E Retailing: Concept and Framework

Anchit Agarwal, Ph. D Scholar (Management), Department of Humanities, Harcourt Butler Technical University, Kanpur
 Vinod Kumar Yadav, Associate Professor, Department of Humanities, Harcourt Butler Technical University, Kanpur

ID 256 Assessment of TechPlus, A Proposed Website Application for Consumers and Vendors Interaction Through Livestream

Ian Alcantara, John Robert Briz, Alfonso Lapinoria and Grace Lorraine Intal, School of Information Technology Mapua University, Intramuros, Manila, Philippines

2:00 – 3:45 pm, MONDAY**Industry 4.0****Virtual Room 4**

Session Chair: Dinara Dikhanbayeva, School of Engineering and Digital Sciences, Nazarbayev University, Nur-Sultan, Kazakhstan

ID 84 Implementing a PSS approach to improve maintenance operations of facility equipment

Nicolas Haber, Mario Fargnoli, Mara Lombardi and Massimo Tronci, Faculty of Civil and Industrial Engineering, Sapienza University of Rome Rome, Italy

ID 145 Mining Process Systems in the Industry 4.0 Mandate Towards the Plant of Future

Mohammed Yaqot and Brenno C. Menezes, Division of Engineering Management and Decision Sciences, College of Science and Engineering Hamad Bin Khalifa University, Doha, Qatar Foundation, Qatar

ID 186 Decentralized freight intelligence implementation of Industry 4.0 in the transport part: The status quo and future perspectives

Fellaki Soumaya, El Jaouhari Asmae and Amejwal Mohamed, Laboratory of Technologies and Industrial Services, Higher School of Technology, Sidi Mohamed Ben Abdellah University, Fez, Morocco
 Arif Jabir, Laboratory of Technologies and Industrial Services, Higher School of Technology, Sidi Mohamed Ben Abdellah University, Fez, Morocco
 Laboratory of Modeling and Optimization of Industrial Systems and Logistics, National School of Applied Sciences, Tetouan, Morocco

ID 235 The Challenges of Digitalisation – the role of leadership, culture and technology based on a systematic review

Thorsten Schölvler, PhD Student, Universidade de Aveiro, Aveiro, Portugal
 Leonor Teixeira, Associate Professor, Department of Economics, Management and Industrial Engineering and Tourism (DEGEIT) / Institute of Electronics and Informatics Engineering of Aveiro (IEETA), University of Aveiro, Portugal
 Marco Pimpão, Adjunct Professor, Escola Superior de Tecnologia e Gestão de Águeda (ESTGA), University of Aveiro, Portugal

ID 376 COMMA 4.0: Comprehensive Maturity Assessment Model for Industry 4.0

Dinara Dikhanbayeva, School of Engineering and Digital Sciences, Nazarbayev University, Nur-Sultan, Kazakhstan
 Yevgeniy Lukhmanov, Civil and Environmental Engineering, School of Engineering and Digital Sciences, Nazarbayev University, Nur-Sultan, Kazakhstan
 Essam Shehab, Head of Mechanical and Aerospace Engineering Department, School of Engineering and Digital Sciences, Nazarbayev University, Nur-Sultan, Kazakhstan
 Idriss El-Thalji, Department of Mechanical Engineering, Building and Materials Technology, University of Stavanger, Stavanger 4036, Norway
 Ali Turkiylmaz, Industrial Engineering and Engineering Management, School of Engineering and Digital Sciences, Nazarbayev University, Nur-Sultan, Kazakhstan

2:00 – 3:45 pm, MONDAY**Human Factors and Ergonomics****Virtual Room 5**

Session Chair: Suat Kasap, Industrial Engineering Department, American University of the Middle East, Egaila, Kuwait

ID 109 Ergonomic improvement in a roll-forming station for a metal-mechanical company

Martin Camet and Frank Tweddle, Universidad de Lima, Escuela de Ingeniería y Arquitectura, Carrera de Ingeniería Industrial, Lima, Perú
 José Antonio Taquía Gutiérrez, Universidad de Lima, Instituto de Investigación Científica, Grupo Tecnologías Exponenciales, Carrera de Ingeniería Industrial, Lima, Perú

ID 131 Indonesia Human Resources Quality vis-à-vis Textile Industry Investment

Lifia Meranti and Roseno Aji Affandi, International Relations Department, Faculty of Humanities, Bina Nusantara University, Jakarta, Indonesia

ID 137 Determination of Occupational Stress Factors of Firefighters in Kuwait

Nicolas Lopez and Suat Kasap, College of Engineering and Technology, Industrial Engineering Department, American University of the Middle East, Egaila, Kuwait

ID 259 Occupational Safety and Health Risk Assessment of Workers in the Hospitality Industry

Alliah Jane S. Agunos, Gilene Ruth P. Cruz, Maria Kathryn A. Illescas and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 262 Stress Factors Affecting the Motivation of Senior High School STEM Students at Mapua University in a Virtual Learning Set-Up During COVID-19 Pandemic

Kaneesha Ysabel B. Rosales, Marc Andrei B. Besana and Derek Patrick M. Santos, Science, Technology, Engineering and Mathematics, Mapua University, Manila, Philippines

Alma Rose Villapando, Department of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 292 A Study on the Effect of Video Conferencing on the Fatigue of Students during Online Classes

Abigail V. Malang, Undergraduate Student, Industrial Engineering, Department of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Metro Manila, Philippines

Almarose C. Villapando, Assistant Professor, Industrial Engineering, Department of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Metro Manila, Philippines

ID 297 Determining the Factors Affecting the Work-related Musculoskeletal Disorder of Nurses Amidst COVID-19 in the National Capital Region

Vernin R. Felix and Engr. Almarose C. Villapando, School of Industrial Engineering and Engineering Management, Mapua University, 685 Muralla St., Intramuros, Manila 1002, Philippines

2:00 – 3:45 pm, MONDAY

Business Management

Virtual Room 6

Session Chair: Novia Yuliani, Universitas Pendidikan Indonesia, Bandung, Indonesia

ID 117 Consumer Loyalty to the Use of e-Marketplaces in Indonesia: A Systematic Literature Review

Haryadi Sarjono, Adi Teguh Suprpto, Alifa Zulaykha, Andre Gunawan, Jason and Jessy Felicia Chai, BINUS Business School Undergraduate, Bina Nusantara University, Jl. K.H. Syahdan No.9, Palmerah, Jakarta Barat, Indonesia

ID 119 Regenerating Innovative Behavior in Non-Profit Organization

Maria Grace Herlina, Hardijanto Saroso and Dicky Hida Syahchari, Senior Lecturer, Management Department, BINUS Business School, Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 139 Empowering Innovative Team: McClelland's Needs Theory with Rasch Model Analysis

Maria Grace Herlina, Randy Hadipoespito and Jefta Harlianto, Senior Lecturer, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 140 Determinants of Dividend Policy of Family Firms in Indonesia

Farida Titik Kristanti, Faculty of Economics and Business, Telkom University, Bandung, West Java, Indonesia

Febiananda Tasya Wardani, Faculty of Economics and Business, Telkom University, Bandung, West Java, Indonesia

ID 142 A comparative study on skill development between male and female expatriates in Taiwan

Somya Agrawal, College of Informatics, Chaoyang University of Technology, Taichung, Taiwan

Yindhika Lawrence, College of Humanities and Social Sciences, Chaoyang University of Technology, Taichung, Taiwan

ID 149 Examining Entrepreneurial Orientation Among Newbie Entrepreneurs in COVID Pandemic Era based on McClelland's Social Motives

Maria Grace Herlina and Dicky Hida Syahchari, Senior Lecturer, Management Department, BINUS Business School Undergraduate Program Bina Nusantara University, Jakarta, Indonesia

Banu Rinaldi, Senior Lecturer, Business Creation Program, Management Department, BINUS Business School Undergraduate Program

Bina Nusantara University, Jakarta, Indonesia

ID 156 Tourist Loyalty in the European Themed Restaurants

Novia Yuliani and Ratih Hurriyati, Student and Professor, Universitas Pendidikan Indonesia, Bandung, Indonesia

Dimas Yudistira Nugraha, Faculty Member of Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung Campus, Bandung Indonesia

July 25 (MONDAY) - Session: 4:00 – 5:45 pm

4:00 – 5:45 pm, MONDAY

High School STEM Competition

Virtual Room 1

Session Chair: Prof. Don Reimer, IEOM

ID 78 War of the Wilds: Predicting Future Invaders and Invasions

Nicholas Lu, Student, The Haverford School, Pennsylvania, United States

ID 452 Analysis of Restaurant Ratings and Prices in Beijing and Los Angeles

Zhixing Lu (Amy), Stanford Online High School, Redwood City, CA 94063, USA

ID 278 Consumer Research of Choice Design Model and Extended Warranty Purchase

Mason Chen, Stanford OHS, Academy Hall Floor 2 8853 415 Broadway, Redwood City, CA 94063, USA

4:00 – 7:00 pm, MONDAY

Competitions

Virtual Room 2

Session Chair: Judging Committee Chair

Lean Six Sigma Competition

ID 173 How can management and process methodologies help to define a roadmap for digitization? A proposal based on a practical case

Juliana Basulo Ribeiro, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal

Juliana Salvadorinho, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal

Marlene Amorim, Research Unit on Governance, Competitiveness and Public Policies (GOVCOPP) and Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal

Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Governance, Competitiveness and Public Policies (GOVCOPP), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro Portugal

ID 288 Exploring Barriers and Facilitators to Lean Implementation in Healthcare Organizations

Camila Corrêa, Doctoral Student, University of Sao Paulo, Sao Paulo, Brazil

Izabelle Martinez, Masters Student, University of Sao Paulo, Sao Paulo, Brazil

Gabriel Rampini, Doctoral Student, University of Sao Paulo, Sao Paulo, Brazil

Fernando Berssaneti, Professor of Industrial Operations and Industrial Management, University of Sao Paulo, Sao Paulo, Brazil

ID 387 Applying DMAIC in the Educational Process

Chibuikwe Okika, Masters Student of Electrical Engineering and Computing Sciences, Rochester Institute of Technology, Dubai, UAE

Dr Slim Saïdi, Associate Professor of Industrial Engineering, Rochester Institute of Technology, Dubai, UAE

ID 626 Increasing the Efficiency of Help Desk Responses: A Six Sigma Approach

Kayla J. Buczkowski, Applications Service Engineer at A&D Technology and Masters of Engineering Management and Masters of Industrial Engineering Candidate of the College of Engineering, Lawrence Technological University, Southfield, MI 48075, USA

Robert Lutes, Design Engineer at Magnetic Products, Incorporated, Masters of Engineering Management Candidate, Lawrence Technological University, Southfield, MI 48075, USA

Simulation Competition

ID 64 Collision avoidance and trajectory tracking for multiple autonomous mobile robots in robot operating system

Cheung Ho Hin, Department of Industrial and Systems Engineering, Faculty of Engineering, The Hong Kong Polytechnic University, Hung Hom, Hksar, China

C.K.M. LEE, Associate Professor, Department of Industrial and Systems Engineering, Faculty of Engineering, The Hong Kong Polytechnic University, Hung Hom, Hksar, China

ID 65 Minimizing Maximum Lateness for a No-Wait Flowshop Scheduling

Harun Aydilek, Mathematics & Natural Sciences Department, Gulf University for Science and Technology, Kuwait

Asiye Aydilek, Economics & Finance Department, Gulf University for Science and Technology, Kuwait

Muberra Allahverdi, Department of Mathematical Sciences, Kean University, New Jersey, USA.

Ali Allahverdi, Industrial and Management Systems Engineering Department, Kuwait University, Kuwait

ID 189 Fleet Sizing of Heterogenous Fleet of Trucks in a Material Handling System Using Anylogic Simulation Modelling

Mohamed Amjath, PhD Student, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar

Laoucine Kerbache, Professor, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar and HEC Paris

Adel Elomri, Assistant Professor, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar

James MacGregor Smith, Professor, Department of Mechanical and Industrial Engineering, University of Massachusetts, Amherst, MA 01003, USA

SCM Competition

ID 150 The Impact of Production and Operations Within Transport Management Supply Chain Industry.

Judith Nkuna, Andre Vermeulen and Jan-Harm Pretorius, Department of Quality and Operations Management, Department of Engineering Management, University of Johannesburg, South Africa

ID 299 Identification of Importance Criteria for Evaluating Suppliers' Performance during the Trial Production Stage: Case Study in Automotive Manufacturer

Kamphon Pingsusaen, Detcharat Sumrit and Assadej Vanichchinchai, The Cluster of Logistics and Rail Engineering, Faculty of Engineering, Mahidol University, Nakhon Pathom, Thailand

ID 474 Effectively Managing Supply Chain Practices, Financial Performance and Competitive Advantage to Enhance a Robust Retail Supply Chain Management in Sierra Leone: Case Study- Freetown

Sahr Fillie and Alimamy Kamara, Former Students of the Faculty of Industrial Technology, Department of Industrial Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

Covid Data Analytics Competition**ID 112 A Study to Analyze the Impacts of COVID-19 on The Textile Industry: Evidence from Bursa, Turkey**

Melike Bulur and Eren Özceylan, Industrial Engineering Department, Gaziantep University, Turkey
Cihan Çetinkaya, Management Information Systems Department, Adana Alparslan Turkes Science and Technology University, Turkey

ID 143 Towards Smart Society: Deployment of Drones in Optimizing the Allocation of Covid-19 Vaccines, the Case of Qatar

Aseel Wazwaz, Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar
Laoucine Kerbache, Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar and HEC Paris, Jouy-en-Josas, France

ID 300 Determinants of vaccine hesitancy among Indian adults: An empirical study based on Covid-19 vaccination

Bitu Afsharina, Senior Research Scholar, Department of Management Studies, Indian Institute of Science, Bangalore, India
Anjula Gurtoo, Professor, Department of Management Studies, Chairperson, Centre for Society and Policy, Indian Institute of Science, Bangalore, India

4:00 – 5:45 pm, MONDAY**Industry 4.0****Virtual Room 3**

Session Chair: Enfel Barkat, Assistant Professor, Department of Electrical and Computer Engineering, Effat University, Jeddah, Saudi Arabia

ID 389 Types of HR Analytics used for the prediction of Employee Turnover in different Strategic Firms with the use of Enterprise Social Media

Sonal Gupta, Department of Industrial & Management Engineering, Indian Institute of Technology Kanpur, Kanpur, India
R.R.K. Sharma, Department of Industrial & Management Engineering, Indian Institute of Technology Kanpur, Kanpur, India

ID 391 Industry 4.0 maturity models for SMEs: lessons learned and recommendations for their adoption based on the literature review

Kim Häring, PhD Student, University of Aveiro, Portugal
Leonor Teixeira, Depart. of Economics, Management, Industrial Engineering and Tourism (DEGEIT), IEETA, University of Aveiro, Portugal
Carina Pimentel, Depart. of Economics, Management, Industrial Engineering and Tourism (DEGEIT), GOVCOPP, University of Aveiro, Portugal

ID 402 Understanding the Barriers and Enablers of the Adoption of Supply chain 4.0 in Large Firms

Giang Nguyen, Vikas Kumar, Anabela Soares and Linh Duong, Bristol Business School, University of the West of England, Bristol BS16 1QY, UK

ID 423 Cyber-Security Challenges in Industry 4.0

Fabio S. Oliveira, Center for Information, Automation and Mobility, Technological Research Institute, São Paulo, Brazil
Brenno C. Menezes, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar Foundation, Qatar

ID 519 Procurement 4.0: Drivers, Challenges, Remedies, and Benefits

Areej Althabatah, Ph.D. Student, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar
Robert Eduard Franzoi, Postdoctoral Researcher, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar
Brenno Menezes, Assistant Professor, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar
Laoucine Kerbache, Professor, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar

ID 521 Depot Management in an ISO Tank Container Terminal: Challenges and Opportunities

Rodrigo Pereira do Nascimento, Graduate Program in Computer Science, Institute for Technological Research (IPT), São Paulo, SP, Brazil
Dr. Brenno C. Menezes, Assistant Professor, Hamad Bin Khalifa University (HBKU), Education City, Doha, Qatar

ID 422 Modified (R, Q) Policy to Mitigate Risks in Supply Chains

Sugoutam Ghosh, Senior Lecturer, School of Business, Singapore University of Social Sciences, Singapore

ID 85 IoST: A Multi-CubeSat Cognitive Radio Network

Enfel Barkat, Assistant Professor, Department of Electrical and Computer Engineering, Effat University, Jeddah, Saudi Arabia

4:00 – 5:45 pm, MONDAY**Machine Learning and Data Analytics****Virtual Room 4**

Session Chair: Gamal Nawara, Faculty of Engineering, Zagazig University, Egypt

ID 379 Credit Scoring Model Construction Based on LinkedIn Social Media Data

Dian Puteri Ramadhani, Putri Mentari Wijaya and Andry Alamsyah, School of Economic and Business, Telkom University, Bandung, Indonesia

ID 462 Website Quality for E-Commerce using Sentiment Analysis (Case Studies in Tokopedia and Shopee)

Triyulia Annisa, Department of Faculty of Economics and Business, Telkom University, Bandung, Indonesia

Krishna Kusumahadi, Department of Faculty of Economics and Business, Telkom University, Bandung, Indonesia

Eva Nurhazizah, Department of Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 56 Analyzing Lexical and Prosodic Features of Bilingual Job Interviews in Evaluating Interview Performance

Matthew Von Nathaniel Corcuera, Rudnick James Donaire, Rey Victor Mendillo, Dr. Larry Vea, and Joel De Goma, School of Information Technology, Mapúa University – Makati, Makati, Philippines

ID 89 American Sign Language Interpret using Web Camera and Deep Learning

Kurt Christian G. Fernandez, Brian Quintin A. Paredes, Janiño I. Perfecto and Joel C. De Goma, School of Information Technology, Mapúa University – Makati, Makati, Philippines

ID 318 Project Management Pedagogy for Complex Online Machine Learning Capstone Projects

Takeaki Toma and Nicolas Lopez, College of Engineering and Technology, Faculty of Industrial Engineering, American University of the Middle East Egaila, Kuwait

ID 440 Heart disease prediction approach using machine learning and Multi-Criteria Decision Making methods.

T.J Malapane, Department of Electrical and Electronic Engineering Technology, University of Johannesburg, Gauteng, South Africa
W. Doorsamy and B.S Paul, Institute for Intelligent Systems, University of Johannesburg, Gauteng, South Africa

ID 451 Sales forecasting of short-life cycle products using clustering and classification techniques

Mohamed Grida, Abdelhamid Rabah and Gamal Nawara, Faculty of Engineering, Zagazig University, Egypt

4:00 – 5:45 pm, MONDAY

SCM

Virtual Room 5

Session Chair: Darjat Sudrajat, BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia

ID 59 Supply Chain Agility, Complexity and Resilience: An Empirical Study of Blockchain-Technology Application in Indonesia Logistics Service Providers

Darjat Sudrajat, Assistant Professor, BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia
Hardijanto Saroso, Assistant Professor, BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia
Hendry Hartono, Assistant Professor, BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia
Dicky Hida Syahchari, Assistant Professor, BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia
Andre Kreie, Director Logistics Education – LEED, Kuehne Foundation, Switzerland

ID 100 The Effectiveness of Covid-19 Vaccine Supply Chain in Indonesia and Hungary

Rosita Widjojo, Faculty Member, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Santi Setyaningsih, PhD Student, Regional Science and Business Administration, Széchenyi István University, Győr, Hungary
Fachri Rizky Sitompul, Masters Student, Supply Chain Management, Faculty of Economics, Széchenyi István University, Győr, Hungary

ID 267 Demand and Inventory Simulation using Time Series.

Jhon Rodríguez Salsavilca and Ingrid Guevara Niño, Universidad de Lima, Carrera de Ingeniería Industrial, Lima, Perú
José Antonio Taquía Gutiérrez, Universidad de Lima, Instituto de Investigación Científica, Carrera de Ingeniería Industrial, Lima, Perú

ID 287 Blockchain-enabled Supply Chain Management for a Digital Circular Economy Transition: A Systematic Literature Review

Han Zhang, Assistant Lecturer, School of Strategy and Law, Faculty of Business and Law, Coventry University, UK
Muhammad Mustafa Kamal, Associate Professor, School of Strategy and Law, Faculty of Business and Law, Coventry University, UK
Dongmei Cao, Assistant Professor, School of Strategy and Law, Faculty of Business and Law, Coventry University, UK

ID 396 Fuel Cost Optimization of Coal-Fired Power Plants using Coal Blending Proportions: A MILP Model

Prashant Shukla, Coal Management Group, Jindal Steel and Power, Tamnar, India
Amit Kumar Singh, Coal Management Group, Jindal Steel and Power, Raigarh, India
Ashish Trivedi, O.P. Jindal Global University Sonipat, India

4:00 – 5:45 pm, MONDAY

Business Management

Virtual Room 6

Session Chair: Sambil Charles Mukwakungu, University of Johannesburg, Johannesburg, South Africa

ID 19 The Digital Transformation of Small Business Models: Challenges of Emerging Economies during COVID-19 Pandemic

Najam Ul Zia, Felicita Chromjaková, Ledislav Burita, and Aydan Huseynova, Faculty of Management and Economics, Department of Industrial Engineering and Information Systems, Department of Management and Marketing, Tomas Bata University in Zlín, Czech Republic

ID 24 Application of Marketing Management Techniques in Bio Coal Marketing

M. M. Manyuchi, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa
N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 68 Enabling Railway AM Optimization Using a Rationale KPIs Framework

Rossana Coccia, Alessandro Corsini, Michele Vincenzo Migliarese Caputi and GianPiero Pavirani, Department of Mechanical and Aerospace Engineering, Sapienza University of Rome, Italy
Donatella Fochesato, Lorenzo Di Pasquale, Federico Biasi and Matteo Coltellacci, Rete Ferroviaria Italiana S.p.A., Piazza della Croce Rossa 1, Roma, Italy

ID 72 Communication plan for the Scientific Documentation and Archive (DYAC) web platform

Verónica Rosales-Moscoso, Marketing School, Universidad del Azuay, Cuenca, Ecuador
 Michelle Tamay-Campoverde, Marketing School, Universidad del Azuay, Cuenca, Ecuador
 Priscila Verdugo-Cardenas, Business Administration Faculty, Universidad del Azuay, Cuenca, Ecuador
 Catalina Astudillo-Rodriguez, Computer Science Engineering School, Universidad del Azuay, Cuenca, Ecuador
 Jaqueline Verdugo-Cardenas, Business Administration Faculty, Universidad del Azuay, Cuenca, Ecuador

ID 74 Methodology for the Evaluation of the Value Chain in the Chemical Industry

María José González Calle, Ana Carolina Armijos Orellana, Juan Manuel Maldonado-Matute and Pedro Fernando Guerrero Maxi, Faculty of Management Sciences, Business Administration School, Universidad del Azuay, Cuenca, Ecuador

ID 76 Thinking about the sustainability of a Start Up project: UDA-ERP case

Esteban Crespo-Martinez and Catalina Astudillo-Rodriguez, Engineering of Production School, Computer Science Engineering School, Universidad del Azuay, Cuenca, Ecuador
 Ana Vasquez-Aguilera, Gabriela Chica-Contreras and Carolina Neira, Engineering of Production School, Universidad del Azuay, Cuenca, Ecuador

ID 86 Assessing the Empowerment Program at a South African University

Sambil Charles Mukwakungu, Sandy Ndlovu and Nita Sukdeo, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

July 26 (TUESDAY)

July 26 (TUESDAY) - Session: 6:00 – 7:45 am

6:00 – 7:45 am, TUESDAY

Sustainability and Green Systems

Virtual Room 1

Session Chair: Salwa Beheiry, United Arab Emirates, Sharjah, United Arab Emirates

ID 96 Performance Investigation of a Light Car Assisted by Solar Panels

Soufiane Benoumhani, PhD student, Department of mechanical Engineering, University of Kasdi Merbah, Ouargla, Algeria
 Nadia Saifi, Assistant Professor, Department of mechanical Engineering, University of Kasdi Merbah, Ouargla, Algeria
 Boubekeur Dokkar, Professor, Department of mechanical Engineering, University of Kasdi Merbah, Ouargla, Algeria
 Mohamed Cherif Benzid, PhD student, Department of mechanical Engineering, University of Kasdi Merbah, Ouargla, Algeria

ID 133 Integrating Government Policy and MNC Actions in SDGs: A Case of Jakarta Government and Unilever Indonesia

Dian Maulini Akmal and Roseno Aji Affandi, International Relations Department, Faculty of Humanities, Bina Nusantara University, Jakarta, Indonesia

ID 135 Contribution of Danone-AQUA in Realizing Sustainable Development Goals (SDGs) in Indonesia through the Corporate Social Responsibility (CSR) Program: Case Study #BijakBerplastik Campaign

Diana Josephine Afifah and Roseno Aji Affandi, International Relations Department, Faculty of Humanities, Bina Nusantara University, Jakarta, Indonesia

ID 233 The impact of sustainable clothing brand (UNIQLO) on the implementation of SDG number 13

Farrel Ardhan, Bina Nusantara University, Jakarta, Indonesia
 Roseno Aji Affandi, Lecturer, Department of International Relations, Bina Nusantara University, Jakarta, Indonesia

ID 146 Artificial Intelligence in Procurement: An Overview and Case Study of Qatar Foundation

Bedoor Bahameish, Robert Franzoi and Brenno Menezes, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar Foundation, Qatar

6:00 – 7:45 am, TUESDAY

E-Business and E-Commerce

Virtual Room 2

Session Chair: Lucia Isabel Fanárraga Olivares, Universidad de Lima, Lima, Peru

ID 33 The Antecedents and Marketing Outcome of Customer Trust in the On-demand Ridesharing Platform

Fandy Christianto, Jonathan Raharja, Rajendra Khalil Afif and Evelyn Hendriana, Bina Nusantara University, BINUS Business School Master Program, Business Management, Management Department, Jakarta, Indonesia

ID 34 Blockchain Technology for Customer Protection in E-Commerce Transaction

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Siti Eida Hiererra, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Indra Kusumadi Hartono, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Ade Fadli Fachrul, STID Al Hikmah, Jakarta, Indonesia
 Muhammad Salman Al Farisi, STEBIS Bina Mandiri, Bogor, Indonesia
 Enggal Sriwardiningsih, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia,
 Prasetya Cahya S, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Rizky Muslim Fadhillah Fachri, Data Science Cyber Security Swiss German University

ID 36 Knowledge Management System Model for Start-Up Business Community

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Rivaldhy N. Muhammad, Study Program of Law, Faculty of Law, Social and Political Sciences, Open University, Indonesia
 Siti Elda Hiererra, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Enggal Sriwardiningsih, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
 Sawqi Saad El Hasan, Sekolah Tinggi Ekonomi Bisnis Islam Syari'ah Bina Mandiri
 Nico Djundharto Djajasinga, Politeknik Transportasi Darat Indonesia-STTD
 Sugeng Riyanto, STIE Pertiwi, Bekasi, Indonesia
 Prasetya Cahya S, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia

ID 37 Combination E-learning and Knowledge Management System to Increase SMEs Knowledge

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Nico Djundharto Djajasinga, Politeknik Transportasi Darat Indonesia-STTD
 Novingky Ferdinand, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Jakarta, Indonesia
 Sugeng Riyanto, STIE Pertiwi, Bekasi, Indonesia
 Destiana Kumala, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Bogor, Indonesia
 Rizky Maulana, Department of Economics, Faculty of Economics and Management, IPB University Bogor, Indonesia
 Rivaldhy N. Muhammad, Study Program of Law, Faculty of Law, Social and Political Sciences, Open University, Indonesia
 Prasetya Cahya S, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia

ID 38 The Origins and Evolution of Social Commerce: Enhancing E-Commerce Platforms with Social Features

Lucia Isabel Fanárraga Olivares, Francisco Alejandro Crousillat Cheneffusse and Ezilda Maria Cabrera Gil Grados, Industrial Engineering, Faculty of Engineering and Architecture, Universidad de Lima, Lima, Peru

ID 40 Knowledge Management Model for Farmer as Socialization Tool to Support Implementation of Smart Farming in Indonesia

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Sugeng Riyanto, STIE Pertiwi, Bekasi, Indonesia
 Ade Fadli Fachrul, STTD Al Hikmah, Jakarta, Indonesia
 Rizky Maulana, Department of Economics, Faculty of Economics and Management, IPB University, Bogor, Indonesia
 Siti Elda Hiererra, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Enggal Sriwardiningsih, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
 Prasetya Cahya S, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia
 Rivaldhy N. Muhammad, Study Program of Law, Faculty of Law, Social and Political Sciences, Open University, Indonesia

6:00 – 7:45 am, TUESDAY

Entrepreneurship and Innovation

Virtual Room 3

Session Chair: Natan Wahyudianto, Bina Nusantara University, Jakarta, Indonesia

ID 327 Growing Organically or be Invested: Analysis of Business Incubator's Participants at University

Puji Prabowo and Santika Syaravina, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 328 MSMEs' Business Ideas Management

Puji Prabowo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
 Yuda S. Sjaerodji, Visual Communication Design, School of Design, Bina Nusantara University, Jakarta, Indonesia
 Friska Amalia, Interior Design, School of Design, Bina Nusantara University, Jakarta, Indonesia
 Mila A. Savitri, Interior Design, School of Design, Bina Nusantara University, Jakarta, Indonesia

ID 329 Self-Coaching: Ideas Generation Using a Website that Curates Insights from Various Business Categories

Puji Prabowo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 330 The Impact of Start-ups in Agriculture on The Desire of Agricultural Students to Become Entrepreneur

Puji Prabowo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
 Farida Iriani, Agrotechnology Department, Faculty of Agriculture, Universitas Insan Cendekia Mandiri, Banten Street No.11, Bandung, Indonesia

ID 436 The Importance of Digital Innovation and Its Association with Workloads and Job Satisfaction

Ahmad Fauzi Nugraha, Ratri Wahyuningtyas and Fetty Poerwita Sari, Faculty of Economics and Business, Telkom University, Bandung Indonesia

ID 459 Factor Affecting E-Marketplace Adoption on MSMEs in Bandung, Indonesia

Siska Noviaristanti and Yuvie Miftah Huda, Faculty of Management and Business, Telkom University, Indonesia

ID 487 Learnable: A Web and Mobile Based Learning Management System

Natan Wahyudianto, Putri Aurelia Shilo, Stefano Christian Wiryana and Gusti Pangestu, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

6:00 – 7:45 am, TUESDAY

Transport and Traffic

Virtual Room 4

Session Chair: Febby Candra Pratama BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

ID 144 Analysis of the Impact of COVID-19 Pandemic on Key Supply Chain Processes Through System Dynamics

Lucero Ixmattlahua López and Cuahtémoc Sánchez Ramírez, Division of Research and Postgraduate Studies, Tecnológico Nacional de México/Instituto Tecnológico de Orizaba, Orizaba, Veracruz, Mexico
 Jorge Luis García Alcaraz, Department of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juárez, Ciudad Juárez, Chihuahua, Mexico
 Arturo Realyvazquez and Karina Cecilia Arredondo Soto, Departamento de Ingeniería Industrial, Tecnológico Nacional de México/Instituto Tecnológico de Tijuana, Tijuana, Baja California, Mexico

Yara Anahí Jiménez Nieto, Faculty of Accounting and Administration, Universidad Veracruzana Campus Ixtaczoquitlán, Ixtaczoquitlán, Veracruz, Mexico

ID 11 Assessment of Traffic Congestion from The Real-Time Sensing Devices

Humza Hafeez, Department of Civil Engineering, National University of Computer & Emerging Sciences (NUCES), FAST Lahore, Pakistan.
Saman Shahid, Department of Sciences & Humanities, National University of Computer & Emerging Sciences (NUCES), FAST Lahore, Pakistan
Shahid Ali, Department of Civil Engineering, National University of Computer & Emerging Sciences (NUCES), FAST Lahore, Pakistan

ID 190 A Novel Approach for Passenger Demand Forecasting of a New Railway Services

I Nyoman Pujawan, Professor of Supply Chain Engineering, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia
Muhammad Ainul Yaqin, Research Assistant, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia
Amelia Santoso, Research Assistant, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia
Muhammad Isran Ramli, Professor of Transportation System Engineering, Department of Civil Engineering, Faculty of Engineering, Universitas Hasanuddin, Makassar, Indonesia
Sakti Adji Adisasmita, Professor of Transportation and Aviation Engineering, Department of Civil Engineering, Faculty of Engineering, Universitas Hasanuddin, Makassar, Indonesia
Rosmalina Hanafi, Associate Professor of Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Universitas Hasanuddin, Makassar, Indonesia

ID 293 Towards smart mobility: Morocco and the central mobility management system

Sohaib Chengaou, IA Laboratory, Faculty of Sciences Meknes, Moulay Ismail University, Meknes, Morocco
Kenza Oufaska, TICLab Laboratory, College of Engineering & Architecture, International University of Rabat, Rabat, Morocco
Achraf HAIBI, IA Laboratory, Faculty of Sciences Meknes, Moulay Ismail University, Meknes, Morocco
TICLab Laboratory, College of Engineering & Architecture, International University of Rabat, Rabat, Morocco
Khalid El Yassini, IA Laboratory, Faculty of Sciences Meknes, Moulay Ismail University, Meknes, Morocco

ID 294 Towards intelligent and sustainable mobility: a comparative study of transport systems in four african countries

Sohaib Chengaou, IA Laboratory, Faculty of Sciences Meknes, Moulay Ismail University, Meknes, Morocco
Kenza Oufaska, TICLab Laboratory, College of Engineering & Architecture, International University of Rabat, Rabat, Morocco
Achraf HAIBI, IA Laboratory, Faculty of Sciences Meknes, Moulay Ismail University, Meknes, Morocco
TICLab Laboratory, College of Engineering & Architecture, International University of Rabat, Rabat, Morocco
Khalid El Yassini, IA Laboratory, Faculty of Sciences Meknes, Moulay Ismail University, Meknes, Morocco

ID 324 Smart Sensing and Dispatching for Optimal Fleet Route Planning with Fuel Economy

Jianyuan Peng, Master's Student of Mechanical Engineering, Georgia Institute of Technology, Atlanta, USA
Mulang Song, Ph.D. Student of Mechanical Engineering, Georgia Institute of Technology, Atlanta, USA
Jianxin (Roger) Jiao, Associate Professor of Mechanical Engineering, Georgia Institute of Technology, Atlanta, USA

ID 590 Developing Business Strategy: Analysis and Formulation for SMEs Snack in Indonesia

Febby Candra Pratama and Muhammad Rizky Naufal, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia
Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

6:00 – 7:45 am, TUESDAY

Quality and Reliability

Virtual Room 5

Session Chair: Prof. Mara Lombardi and Prof. Massimo Guarascio, Sapienza - University of Rome, Italy

ID 12 Water Purification Plants' Safety Assessments

Adil Majeed, Department of Civil Engineering, National University of Computer & Emerging Sciences (NUCES), FAST Lahore, Pakistan
Saman Shahid, Department of Sciences & Humanities, National University of Computer & Emerging Sciences (NUCES), FAST Lahore, Pakistan
Shahid Ali, Department of Civil Engineering, National University of Computer & Emerging Sciences (NUCES), FAST Lahore, Pakistan

ID 277 Impact of Quality 4.0 on production performance Case study: Company in the automotive sector in Morocco

Rabii Latrach, Advanced Systems Engineering (ISA), National School of Applied Sciences university campus, B.P 241, Kenitra - Morocco
Driss Serrou, Higher Institute of Transport and Logistics, Rue Capitaine Vuillanier - Route de Rabat Quartier Ain Sebaa, Casablanca-Morocco
Oussama Bouazaoui, Advanced Systems Engineering (ISA), National School of Applied Sciences university campus, B.P 241, Kenitra - Morocco
lagrat Ismaïl, Advanced Systems Engineering (ISA), National School of Applied Sciences university campus, B.P 241, Kenitra - Morocco

ID 491 Study of the criticality rate of spot-welding defects on the assembly quality of automotive structures using the MCDM approach

Adil Nabih, Oussama Bouazaoui and Lagrat Ismaïl, Advanced Systems Engineering (ISA), National School of Applied Sciences university campus, B.P 241, Kenitra – Morocco

ID 557 Information Management in Physical Asset Management

Ana Carolina Gandini Panegossi, Federal Institute of Sao Paulo (IFSP) – Matao Campus, Matao, Sao Paulo, Brazil
Doctoral student in the Regional Development and Environment Program of the University of Araraquara (UNIARA), Araraquara, Sao Paulo, Brazil
Ethel Cristina Chiari da Silva, University of Araraquara (UNIARA), Araraquara, Sao Paulo, Brazil
Marcus Cesar Avezum Alves de Castro, Sao Paulo State University (UNESP), Rio Claro, Sao Paulo, Brazil

ID 305 Risk Factors of Non-Smoking Students Grade 7-12 Susceptible to Smoking Cigarette in Indonesia Using Data Global Youth Tobacco Survey 2019

Tati Suryati, Debri Rizki Faisal, Endang Indriasih, Ingan Ukur Tarigan and Made Ayu Lely, National Research and Innovation Agency Indonesia Public Health and Nutrition Research Center-Health Research, Indonesia

ID 431 Managing Electrical Fire Risks in Substations: A Framework to Protect Lives and Assets

Jumana Rashed, Student of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE
 Waleed Elayan, Student of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE
 Khaled Almazrouei, Student of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE
 Saed T. Amer, Faculty of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE

ID 530 Evaluating the Safety and Health Risk of Logistics Workers during the Pandemic

Julianne Mikhaella C. Delos Reyes, Louis Miguel C. Dural, Julia Sofie D. Mangaoang, Gaea Marithe W. Victor, and Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 541 Real Time Dynamic Risk Analysis Approach for Smart Tunnel

Mara Lombardi, Davide Berardi, Luca Stantero and Marta Galuppi, Department of Chemical, Material, Ambient Engineering, Faculty of Civil and Industrial Engineering, Via Eudossiana, 18 - 00184 Roma, Italy, Sapienza - University of Rome, Italy

6:00 – 7:45 am, TUESDAY Business Process Management and Digital Transformation Virtual Room 6

Session Chair: Nor Hazana Abdullah, Center of Leadership and Competencies, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia

ID 80 Leveraging Work Warrant Digitalization in Business Process: A Case Study of Indonesia's Diamond Leading Jewelry Retailer

Eri Dwi Suciaji, Hermanto Widjaja, and Mohammad Heryansyah, Undergraduate Students, Management Department, Faculty of BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia
 Lianna Wijaya, Faculty Member, Management Department, Faculty of BINUS Online Learning, Bina Nusantara University, Jakarta, Indonesia

ID 106 The Most Preferable Of E-Crm Values on E-Commerce Sector from The Users Perspective Case Study: Indonesian Market Place

Aini Farmania, Fulltime Lecturer, Management Department – BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia
 Riska Dwindia Elsyah, Program Management, Bakrie University, Jakarta Indonesia

ID 141 Digitized and Automated University Process with Robotic Process Automation

Müge Olucoglu, Izmir Bakircay University, Department of Computer Engineering, 35665, Izmir, Turkey
 Onur Dogan, Izmir Bakircay University, Department of Industrial Engineering, 35665, Izmir, Turkey
 Ekin Akkol and Burak Keskin, Izmir Bakircay University, Department of Management Information Systems, 35665, Izmir, Turkey

ID 224 Readiness to Adopt Gamification in Human Resource Activities: A Study in Selected Manufacturing Companies

Nor Hazana Abdullah, Center of Leadership and Competencies, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia
 KHOR Jin Yie, Amphenol TCS (M) Sdn Bhd, Kawasan Perindustrian Bukit Minyak, Penang, Malaysia
 Nor Aziati Abdul Hamid, Eta Wahab and Shazaitul Azreen Rodzalan, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia

ID 225 Redefining the Concept of e-Government Program. A Review of the Literature.

L TMabinane, E I Edoun, C. Mbowa, A. Pradhan, Department of Quality and Operations Management, University of Johannesburg, South Africa

ID 298 The Effect of Communication and Digital Leadership to Employee Performance in RSUD Brigjen H. Hasan Basry

Noval Nur Alif, Student, Faculty of Economy and Business, Telkom university of Indonesia, Indonesia
 Fetty Poerwita Sary, Faculty of Economics and Business, Telkom University, Indonesia

ID 374 Technology Acceptance Model for Virtual Reality in Hotel Industry

Tiurida Lily Anita, Faculty Member, Hotel Management Department, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta, Indonesia
 Arief Zulkarnain and Agung Gita Subakti, Faculty Member, Business Hotel Management Department, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta, Indonesia
 Krittipat Pitchayadejanant, Faculty Member, Burapha University International College, Burapha University, Chonburi, Thailand

July 26 (TUESDAY) - Session: 8:00 – 9:45 am**8:00 – 9:45 am, TUESDAY****Plenary I****Onsite Room A**

Session Chair: Dr. Riccardo Patriarca

Speaker I – 8:00 – 8:30 am

Dr. Sunil Tiwari
 Associate Professor
 Department of Operations Management & Decision Science
 ESSCA School of Management
 Lyon, France

Speaker II – 8:30 – 9:00 am

Tommaso Rossi

Full Professor
Director of Lean Club & i-FAB
LIUC – Università Cattaneo
Castellanza, Varese, Italy

Dr. Rossella Pozzi
Assistant Professor of Operations Management
School of Industrial Engineering
LIUC University
Castellanza, Varese, Italy

Speaker III – 9:00 – 9:30 am

Dr. Riccardo Patriarca
Tenure Track Assistant Professor
Resilience Engineering | Forbes 30u30 EU
Sapienza Università di Roma
Rome, Latium, Italy

8:00 – 9:45 am, TUESDAY

Global Engineering Education I

Onsite Room B

Session Chair: Dr. Ma. Angeles Gómez Gavito

8:00 am - 8:30 am (Tuesday, July 26)

Dr. Ma. Ángeles Gómez Gavito

Directora LAI – Mex y Centro Lean Enterprise Transformation
Directora de Intervención y Formación Internacional
Senior Lean Six Sigma Consultant & Black Belt
Dirección General de Internacionalización
Universidad Popular Autónoma del Estado de Puebla AC.
21 sur 1103, Torre de Rectoría, 2o. Piso,
Barrio de Santiago
CP.72410, Puebla, Pue, Mexico

8:30 am – 9:00 am (Tuesday, July 26)

ID 522 Innovator's Dilemma: To be the First or to be the Best

Shirish D. Chikte and Sudhakar D. Deshmukh, MEDS and Operations Department, Kellogg School of Management, Northwestern University, Evanston, Illinois, USA

9:00 am – 9:30 am (Tuesday, July 26)

ID 567 Systematic Derivation of Learning Objectives for Fostering the Development of Sustainability Competences in the Education of Industrial Engineering and Management Students

Amila Omazic, Research and Teaching Assistant, Institute of Business Economics and Industrial Sociology, Faculty of Mechanical Engineering and Economic Sciences, Graz University of Technology, Graz, Austria
Corina Pacher, Education Project Manager, Life Long Learning, Graz University of Technology, Graz, Austria
Bernd Markus Zunk, Associate Professor, Institute of Business Economics and Industrial Sociology, Faculty of Mechanical Engineering and Economic Sciences, Graz University of Technology, Graz, Austria
Manuel Woschank, Deputy Head and Senior Researcher, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

8:00 – 11:45 am, TUESDAY

Competitions

Onsite Room C

Session Chair: Judging Committee Chair

UNDERGRADUATE STUDENT PAPER COMPETITION

ID 270 ABC Analysis and an Application in the Carpet Industry

Bensu Müldür, MSc Student, Industrial Engineering, Gaziantep University, Gaziantep, Turkey
Devran Aydoğan, Undergraduate Student, Industrial Engineering, Gaziantep University, Gaziantep, Turkey
Alptekin Durmuşoğlu, Associate Professor, Industrial Engineering, Gaziantep University, Gaziantep, Turkey

ID 285 Plumped - Business Plan for Enterprise Project

Thi Hoang Ngoc Nguyen, University of the West of England, United Kingdom

ID 571 Level of IFRS Implementation in SMEs: Exploratory Case Studies of SMEs Palembang, Indonesia

Amany Larassiyah Amir, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia
Muji Gunarto, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia
Amirudin Syarif, Faculty of Economics and Business, Universitas Bina Darma, Palembang, Indonesia
Dian Cahyawati, Department of Mathematics, Faculty of Math and Natural Science, Universitas Sriwijaya, Palembang, Indonesia

SUPPLY CHAIN AND LOGISTICS COMPETITION

ID 90 A Case-Analysis on the Impacts of ERP Integration on Supply Chain Performance
Raid Al-Aomar, Professor of Industrial Engineering, School of Applied Technical Sciences, German Jordanian University, Amman-Jordan
Yousef Al-Shurafa and Osama Qadri and Rand Abdallah, Graduate students, Department of Industrial Engineering, German Jordanian University, Amman-Jordan

ID 150 The Impact of Production and Operations Within Transport Management Supply Chain Industry.

Judith Nkuna, Andre Vermeulen and Jan-Harm Pretorius, Department of Quality and Operations Management, Department of Engineering Management, University of Johannesburg, South Africa

DOCTORAL DISSERTATION COMPETITION**ID 73 Drones in Manufacturing: Opportunities and Challenges**

Omid Maghazei, Chair of Production and Operations Management (POM), Department of Management, Technology, and Economics (D-MTEC), ETH Zurich, Switzerland

GRADUATE STUDENT PAPER COMPETITION**ID 25 Integrating E-S-QUAL Model and Analytical Hierarchy Process to Assess Consumers' Preferences in Selected Online Shopping Platforms in Manila, Philippines**

Maria Victorina D. Rada and Mark Anthony V. Santiago, School of Industrial and Engineering Management, Mapua University, 658 Muralla St., Intramuros, Manila, Philippines
Francis S. Castil, Niño Dayanghirang, Kristia Carmela A. Enoval, Rosalyn Gonzaga, Imtiaz A. Kazi, Tabassam Raza, Jeferson Q. Rico and David P. Supangco, Graduate School of Business, Philippine School of Business Administration, Manila, Philippines

ID 39 An Innovative Method to Connect 3D Printed Components Using a 3D Printed Compliant Mechanism

Patrich Ferretti, Eleonora Guidotti, Gian Maria Santi, Giulia Alessandri, Giulio Galiè, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna, Viale Risorgimento, Bologna, Italy

ID 82 Application of Linear Programming in the Optimal Installation of Waterproofing Membrane in the Construction Projects

Mark Anthony V. Santiago, Rianina D. Borres, and Maria Victorina D. Rada, School of Industrial and Engineering Management, Mapua University, 658 Muralla St., Intramuros, Manila, Philippines

ID 207 Pharma in the context of Industry 4.0 - Challenges and opportunities based on a literature review

Roland Wölfle, PhD Student, Doctoral School, University of Aveiro, Portugal
Head of Automation and Robotics, pester pac automation GmbH
Irina Adriana Saur Amaral, PhD, Coordinating Professor, Superior Institute of Accounting and Business, University of Aveiro, Portugal
Leonor Teixeira, PhD, Associate Professor, Department of Economics, Management and Industrial Engineering and Tourism (DEGEIT) / Institute of Electronics and Informatics Engineering of Aveiro (IEETA), University of Aveiro, Portugal

ID 269 Experimental Testing and Numerical Modelling Validation for Ranque-Hilsch Vortex Cooling Tube Design

Joseph Akpan and Oludolapo Akanni, Department of Industrial Engineering, Durban University of Technology, Durban, Saudi Arabia
Edwin Effiong and Victor Okorie, Department of Mechanical Engineering, University of Uyo, Uyo, Nigeria

ID 271 3D Reconstruction and 3D Printing of Sections of the Aortic Arch

Gian Maria Santi, Giulia Alessandri and Leonardo Frizziero, Department of Industrial Engineering, Alma Mater Studiorum University of Bologna Bologna, 40136, Italy
Antonio Loforte, Gianluca Folesani, Luca Botta and Davide Pacini, Department of Cardiac Surgery, S. Orsola University Hospital, IRCCS Bologna Alma Mater Studiorum University of Bologna, Bologna, 40138, Italy

ID 469 Application of IDEs (Industrial Design Structure) to Sustainable Sharing Mobility: Case Study of an Inclusive Autonomous Vehicle

Giulio Galiè, PhD Student, DIN – Department of Industrial Engineering, Alma Mater Studiorum – Università di Bologna, Italy
Martina Aldrovandi, Student, DIN – Department of Industrial Engineering, Alma Mater Studiorum – Università di Bologna, Italy
Silvia Franco, Student, DIN – Department of Industrial Engineering, Alma Mater Studiorum – Università di Bologna, Italy
Elisa Rana, Student, DIN – Department of Industrial Engineering, Alma Mater Studiorum – Università di Bologna, Italy

ID 587 Simulation Analysis of Brake Lining Manufacturing

Karthik Dhandapani and Ahad Ali, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering. Lawrence Technological University, Southfield, MI 48075, USA

8:00 – 9:45 am, TUESDAY**Project Management****Virtual Room 4**

Session Chair: Riska Dwindia Elsyah, Program Management, Bakrie University, Jakarta Indonesia

ID 134 Project "Schedule Is Different" Why? And What Should Be Done About It?

Moshe Eben Chaime, Contract Professor, Department of Industrial Engineering & Management, Ben Gurion University of the Negev, Be'er Sheva, Israel

ID 157 Overview of project management methodologies: Traditional versus Agile approach

Wisal Morjane, Engineering Sciences Laboratory, National School of Applied Science, Kenitra- University Ibn Tofail, Morocco
Rachid Bannari, Professor, Engineering Sciences Laboratory, National School of Applied Science, Kenitra- University Ibn Tofail, Morocco
Jihane Gharib, Professor, Engineering Sciences Laboratory, National School of Applied Science, Kenitra- University Ibn Tofail, Morocco

ID 306 A review of the Effects of Industry 4.0 Integration on Construction Project Communication

Eveth Nkeiruka Nwobodo-Anyadiegwu, Agnes Primrose Nkutha and Alice Kabamba Lumbwe, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

ID 310 An Integrated Framework for Project Risk Assessment Using the Stepwise Weight Assessment Ratio Analysis

Volkan Çakir, Assistant Professor of Practice, Faculty of Industrial and Mechanical Engineering, Lebanese American University, Lebanon
Mariella Mansour, Industrial Engineering Senior Student, Faculty of Industrial and Mechanical Engineering, Lebanese American University, Lebanon

ID 62 Development of a Forecasting Tool to Address High Percentage of Breach in Delivery Times in a Local Food Delivery Service

Tomas Gabriel N. Domingo, Noah P. Hermogenes, Nikko E. Yuag, Engr. Carlos Ignacio Jr. P. Lugay, Ph.D., PIE and Asean Eng., Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, España Blvd., Metro Manila, Philippines

ID 104 Ipa Analysis of Service Quality (Servqual) Case Study: The Largest Mortgage Bank In Indonesia

Aini Farmania, Fulltime Lecturer, Management Department – BINUS Business School Undergraduate Program, BINUS University, Jakarta, Indonesia
Riska Dwindi Elsyah, Program Management, Bakrie University, Jakarta Indonesia

July 26 (TUESDAY) - Session: 10:00 am – 1:00 pm

Onsite Room A / Virtual Room 1

Keynote Speakers

10:00 – 10:20 am – Welcome Address:

Dr. Giulio di Gravio

Full Professor at the Department of Mechanical and Aerospace Engineering
Coordinator of the PhD course in Industrial and Management Engineering
Sapienza – University of Rome, Rome, Italy

10:20 -11:00 am – Keynote Speaker I (Opening Keynote):

Dr. Alexandre Dolgui

Editor-in-Chief, International Journal of Production Research
Distinguished Professor, Head of Department Automation, Production and Computer Sciences,
IMT Atlantique
Nantes, France

11:00 – 11:40 am – Keynote Speaker II:

Andrea Benfenati

Founder and Senior Management Consultant
Newconsulting Srls
Parma, Emilia-Romagna, Italy

Implementing ISO 9001 standard using lean six sigma tools

11:40 am -12:20 pm – Keynote Speaker III:

Prof. Dr. Tirta Nugraha Mursitama

Vice Rector of Research and Technology Transfer
Bina Nusantara University – BINUS University
Jakarta, Indonesia

12:20 – 12:40 pm – Keynote Speaker IV:

Franco Megali

VP and CEO Italy, Israel and Greece

Siemens Industry Software S.r.l.

Global Sales & Customer Success

Via Werner von Siemens, 1, 20128 Milano, Italy

1:00 – 2:00 pm – Lunch Break (Provided)

Posters - 2:00 – 6:00 pm, Tuesday, July 26

ID 437 Analyzing the CO2 Emissions and Fuel Consumption of Light-duty Vehicles

Behzad Maleki Vishkaei, and Pietro De Giovanni, Department of Business and Management, LUISS University, Rome, Italy

July 26 (TUESDAY) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, TUESDAY

WIIA Panel

Onsite Room A

Women in Industry and Academia (WIIA) Panel

Panel Chair

Dr. Silvia COLABIANCHI
Industrial and Management Engineering
Sapienza-University of Rome
Rome, Italy

Panel Speaker I

Dr.-Ing. Professor Susana Duarte
Assistant Professor of Industrial Engineering
School of Science and Technology of the Universidade Nova de Lisboa, Portugal
Lisboa, Portugal

Panel Speaker II

Valentina Bianchi
OM Manager in a Pharmaceutical

Panel Speaker III

Luz María Valdez de la Rosa, Ph. D.
Profesora del Departamento de Ingeniería Civil y Gestión
Escuela de Ingeniería y Tecnologías
Universidad de Monterrey
Mexico

Panel Speaker IV

Saltanat Akhmadi
Engineering Management Program
School of Engineering and Digital Sciences
Nazarbayev University
Nur-Sultan, Kazakhstan

ID 335 Women and innovation: The missing link

Mariza Tsakalerou and Saltanat Akhmadi, Engineering Management Program, School of Engineering and Digital Sciences, Nazarbayev University
Nur-Sultan, Kazakhstan

2:00 – 3:45 pm, TUESDAY**Global Engineering Education II****Onsite Room B**

Session Chair: Alfred Wulff, Jade University of Applied Sciences, Wilhelmshaven, Germany

2:00 - 2:30 pm (Tuesday, July 26)

ID 568 Empirically-Based Recommendations for Competence Profiles for Industrial Engineering and Management Students in Austria: Theoretical Framework and Preliminary Empirical Findings

Amila Omazic, Research and Teaching Assistant, Institute of Business Economics and Industrial Sociology, Faculty of Mechanical Engineering and Economic Sciences, Graz University of Technology, Graz, Austria

Corina Pacher, Education Project Manager, Life Long Learning, Graz University of Technology, Graz, Austria

Bernd M. Zunk, Associate Professor, Institute of Business Economics and Industrial Sociology, Faculty of Mechanical Engineering and Economic Sciences, Graz University of Technology, Graz, Austria

Manuel Woschank, Deputy Head and Senior Researcher, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

2:30 - 3:00 pm (Tuesday, July 26)

ID 477 The Effects of Online and Hybrid Teaching Practices on the Academic Performance of Engineering Students in Higher Education Institutions

Mhd Ayham, Industrial Engineering and Engineering Management Department, Sharjah - University of Sharjah, UAE

Zehra Canan Araci, Assistant Professor, Industrial Engineering and Engineering Management Department, Sharjah - University of Sharjah, UAE

3:00 – 3:30 pm (Tuesday, July 26)

ID 434 Knowledge management in postgraduate engineering education

Alfred Wulff, Department of Management, Information and Technology, Jade University of Applied Sciences, Wilhelmshaven, Germany

2:00 – 3:45 pm, TUESDAY**Supply Chain and Logistics****Onsite Room C**

Session Chair: Ana Carolina Tavares da Silva, University of Porto, Centre for Enterprise Systems Engineering – INESC TEC, Porto, Portugal

ID 21 Container Pickup and Delivery with Charge Planning using Diesel and Battery Electric Heavy-Duty Trucks

Maged Dessouky, Siyuan Yao, and Shichun Hu, Daniel J. Epstein Department of Industrial and Systems Engineering, University of Southern California, Los Angeles, CA 90089, USA

ID 380 Mitigating Biomass Supply Chain Uncertainty through Discrete Event Simulation

Romão Santos and Reinaldo Gomes, Centre for Enterprise Systems Engineering, INESC TEC, Porto, Portugal

Henrique Piqueiro and Jorge Pinho de Sousa, Faculty of Engineering of the University of Porto, and INESC TEC, Porto, Portugal

ID 378 Supply Chain Resiliency in the Pharmaceutical Industry – A Simulation-based Approach

Ana Carolina Tavares da Silva and Jorge Pinho de Sousa, Faculty of Engineering of the University of Porto, Centre for Enterprise Systems Engineering – INESC TEC, Porto, Portugal

Catarina Moreira Marques, Centre for Enterprise Systems Engineering – INESC TEC, Porto, Portugal

ID 77 Digital Supply Chain: Conceptualisation of the Research Domain

Maria Pia Ciano, Assistant Professor, Operations Management and Information Systems, Business School, University of Nottingham, UK

Marco Ardolino, Post-doc researcher, RISE Laboratory, Università degli Studi di Brescia, Brescia - Italy

Julian M. Müller, Professor, International Business Studies, Kufstein University of Applied Sciences, Kufstein, Austria

ID 65 Minimizing Maximum Lateness for a No-Wait Flowshop Scheduling

Harun Aydilek, Mathematics & Natural Sciences Department, Gulf University for Science and Technology, Kuwait

Asiyeh Aydilek, Economics & Finance Department, Gulf University for Science and Technology, Kuwait

Muberra Allahverdi, Department of Mathematical Sciences, Kean University, New Jersey, USA.

Ali Allahverdi, Industrial and Management Systems Engineering Department, Kuwait University, Kuwait

2:00 – 3:45 pm, TUESDAY**Product Development and Manufacturing****Virtual Room 4**

Session Chair: Ezra Peranginangin, Assistant Professor, Industrial Engineering, Binus University, Jakarta, Indonesia

ID 14 Holonic (HM), Fractal (FM) And Bionic Manufacturing (BM): A Brief Literature Review and Few Propositions

RRK Sharma, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur 208016 India

Vinay Singh, Department of Management, ABV-IIITM Gwalior, India

KK Lai, President, CYUT Taiwan

ID 304 The craft production system in Morocco, especially in the Medina of Fez.

Nejjari Nada, PHD Student, Department of Industrial Engineering, University Sidi Mohammed Ben Abdellah, Faculty of sciences and Technology, Fès

Chafi Anas, Professor of Industrial Engineering, Department of Industrial Engineering, University Sidi Mohammed Ben Abdellah, Faculty of sciences and Technology, Fès

Kammouri Alami Salaheddine, Professor of Industrial Engineering, Department of Industrial Engineering, University Sidi Mohammed Ben Abdellah, Faculty of sciences and Technology, Fès

ID 4 The Effect of Background Music on Immersion in Virtual Social Game Experience

Christabel Parung, Faculty of Creative Industries, University of Surabaya, Surabaya, Indonesia
 Dian Prianka, Faculty of Creative Industries, University of Surabaya, Surabaya, Indonesia
 Viviany, Faculty of Creative Industries, University of Surabaya, Surabaya, Indonesia
 Hairunnas, Faculty of Creative Industries, University of Surabaya, Surabaya, Indonesia
 Maya Louk, Faculty of Engineering, University of Surabaya, Surabaya, Indonesia

ID 71 Mobile Application Prototype for the Development of Phonological Awareness in Children's School

Adriana León-Pesantez, LIDI, Education School, Universidad del Azuay, Cuenca, Ecuador
 Catalina Astudillo-Rodriguez, LIDI, Computer Science Engineering School, Universidad del Azuay, Cuenca, Ecuador
 Esteban Crespo-Martinez, LIDI, Engineering of Production School, Computer Science Engineering School, Universidad del Azuay, Cuenca, Ecuador
 Fabian Carvajal, LIDI, Computer Science Engineering School, Universidad del Azuay, Cuenca, Ecuador

ID 341 Natural Process Design and Optimization Method Based On TRIZ/Eco-Innovation

El Mehdi Tamasna, PhD candidate, Laboratory LM2I, department 2D2I, École Nationale Supérieure D'électricité Et De Mécanique, Casablanca - Hassan II University, R&D Project Manager, Morocco
 Mohamed Mazouzi, Laboratory LM2I Director, department 2D2I, École Nationale Supérieure D'électricité Et De Mécanique, Casablanca - Hassan II University, Morocco
 Zakaria El Maskaoui, Laboratory LM2I, department 2D2I, École Nationale Supérieure D'électricité Et De Mécanique, Casablanca - Hassan II University, Morocco
 Hamza Fahmy, Laboratory LM2I, department 2D2I, École Nationale Supérieure D'électricité Et De Mécanique, Casablanca - Hassan II University, Morocco
 Soumaya El Yousseoufi, PhD candidate, Laboratory LM2I, department 2D2I, École Nationale Supérieure D'électricité Et De Mécanique, Casablanca - Hassan II University, Morocco

ID 527 Assessment of Renewable based Technology for Vehicle Drive Train in Indonesia using Multi - Criteria Decision Making Approach

Ezra Peranginangin, Assistant Professor, Industrial Engineering, Binus University, Jakarta, Indonesia

July 26 (TUESDAY) - Session: 4:00 – 5:45 pm

4:00 – 5:45 pm, TUESDAY

Global Engineering Education Panel

Onsite Room A

Panel Chair

Dr. Patrick Dallasega
 Assistant Professor in Factory Planning and Project Management
 Free University of Bolzano
 Italy

Panel Speaker I

Priv.-Doz. Dr.-Ing. Fazel Ansari
 Head – Research Group Smart and Knowledge-Based Maintenance, TU Wien
 Digitalization and Competence Management, Fraunhofer Austria
 Austria

Panel Speaker II

Corina Pacher
 Education Project Manager
 Graz University of Technology
 Austria

Panel Speaker III

Dr. Manuel Woschank
 Deputy Head – Chair of Industrial Logistics
 Montanuniversitaet Leoben
 Austria

4:00 – 5:45 pm, TUESDAY

Global Business Management I

Onsite Room B

Session Chair: Athanasios Sidiropoulos, Aristotle University of Thessaloniki, Greece

4:00 – 4:30 pm, TUESDAY

ID 231 An Analysis Soft Skills Required in the Academic Faculty Positions

Zeynep Didem Unutmaz Durmuşoğlu, Associate Professor, Department of Industrial Engineering, Gaziantep University, Gaziantep, Turkey
 Alptekin Durmuşoğlu, Associate Professor, Department of Industrial Engineering, Gaziantep University, Gaziantep, Turkey

4:30 – 5:00 pm, TUESDAY

ID 263 Importance of Same Day Delivery of Fast-Moving Consumer Goods for E-Commerce Companies

Onur Delikurt and Adnan Corum, Department of Industrial Engineering, Bahcesehir University, Istanbul, Turkey

5:00 – 5:30 pm, TUESDAY

ID 393 Business Process Optimization using a Real-Time Locating System

Athanasios Sidiropoulos, PhD Student, Department of Mechanical Engineering, School of Engineering, Division of Industrial Management, Aristotle University of Thessaloniki, Thessaloniki, Greece

Dimitrios Bechtsis, Assistant Professor, Department of Industrial Engineering and Management, International Hellenic University, Thessaloniki, Greece

Dimitrios Vlachos, Professor, Department of Mechanical Engineering, School of Engineering, Division of Industrial Management, Aristotle University of Thessaloniki, Thessaloniki, Greece

4:00 – 5:45 pm, TUESDAY**Engineering Management****Onsite Room C**

Session Chair: Ahmed ElMelegy, College of Business Administration, Gulf University for Science and Technology, Mishrif, Kuwait

ID 159 Implementation of Porter's Strategy in Coffee Shop using SWOT and Marketing Mix Analysis

Eileen Onggaria, Olivia Elisabeth Manurung, and Welhelmina Vince, Industrial Engineering Department, Universitas Indonesia Kampus UI Depok, Jakarta, Indonesia

ID 286 A Composite Dynamic Dispatching Rule for Scheduling Jobs with Release Dates on a Single Workstation

Ahmed ElMelegy, Contract Professor, Assistant Professor of Operations Management, College of Business Administration, Gulf University for Science and Technology, Mishrif, Kuwait

ID 407 Seeking Circularity: A Review of Zimbabwe Waste Management Policies Towards a Circular Economy

Petronella Nyakudya, Daniel M. Madyira and Nkosinathi Madushele, University of Johannesburg, Auckland Park, Johannesburg, South Africa

ID 31 An Exploration of the Notion of Improvisation within Project and Project Management

Alya J. Abuseem, PhD in Engineering Management Program, University of Sharjah, Sharjah, United Arab Emirates

Udechukwu Ojiako, Industrial Engineering and Engineering Management Department, University of Sharjah, Sharjah, United Arab Emirates

Fikri T. Dweiri, Industrial Engineering and Engineering Management Department, University of Sharjah, Sharjah, United Arab Emirates

ID 268 Identifying LARG relationships in SCM through the House of Quality

Izunildo Cabral, Susana Duarte, Ana Paula Barroso and Rogério Puga-Leal, UNIDEMI, Department of Mechanical and Industrial Engineering, NOVA School of Science and Technology, Universidade NOVA de Lisboa, 2829-516 Caparica, Portugal

4:00 – 5:45 pm, TUESDAY**AI****Virtual Room 4**

Session Chair: Jiri Tupa, Department of Technologies and Materials, University of West Bohemia in Pilsen, University 8, Czech Republic

ID 612 Data Collection and Processing for Connected Vehicles Using Sensor Fusion

Michael Giuliani, Department of Electrical & Computer Engineering, Lawrence Technological University, Southfield, MI 48075, USA

George Pappas, Ph.D., Department of Electrical & Computer Engineering, Assistant Professor & Director, MSAI Graduate Program, Lawrence Technological University, Southfield, MI 48075, USA

ID 582 Choosing Supplier Using Analytical Hierarchy Process (Ahp) Method to Reduce Penalty Cost On PT. XYZ

Nihayatunnajwa, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Sarah Dwi Pratiwi, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Wyndah Pril Sisca Ria, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Bachtiar H. Simamora, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 608 A Comprehensive Study on Electric Discharge Machining

M. B. Kiran, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University, India

ID 614 A Mixed Integer Linear Programming Based Optimization Algorithm for Optimal Operation of an Integrated Natural Gas and Electricity Network in Presence of Demand Response Programs

Ali Ahmadian, Postdoctoral Research Fellow, Department of Chemical Engineering, University of Waterloo, Waterloo, Canada

Ali Almansoori, Professor, Department of Chemical Engineering, Khalifa University, Abu Dhabi, UAE

Ali Elkamel, Professor, Department of Chemical Engineering, University of Waterloo, Waterloo, Canada

ID 611 The use of smart textiles in the context of digital transformation in healthcare with the principles of circular economy

Michal Svehl and Jiri Tupa, Department of Technologies and Materials, University of West Bohemia in Pilsen, University 8, Czech Republic

ID 524 Genetic algorithm to optimize unloading of large containers vessel in the port

Aidi Sanaa and Mazouzi Mohamed, National School of Electricity and Mechanics, Morocco

July 27 (WEDNESDAY)**July 27 (WEDNESDAY) - Session: 6:00 – 7:45 am**

6:00 – 7:45 am, WEDNESDAY**Entrepreneurship and Innovation****Virtual Room 1**

Session Chair: I Putu Diva Arimbawa Putra, Faculty of Economics and Business, Telkom University, Bandung, West Java, Indonesia

ID 132 The Impact of South Korean Cultural Diplomacy and Companies Market-seeking towards Food Industry in Indonesia

Gabrielle Violencia and Roseno Aji Affandi, International Relations Department, Bina Nusantara University, Jakarta, Indonesia

ID 250 A Review of Entrepreneurial Skills for Commerce

Agung Purnomo and Thalea Christy Nathaniela, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

Nuzula Firdausi and Elsa Rosyidah, Institute for Research and Community Services, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia
Fairuz Iqbal Maulana, Computer Science Department, Bina Nusantara University, Jakarta 11480, Indonesia

ID 257 Evaluation of Illusory: A Puzzle Video Game that takes Advantage of Non-Euclidean Concepts and Ideas

William Henry E. Datu, Jann Ceasar S. Dela Peña, Benedict Benz D. Ocampo, Grace Lorraine Intal and Cristina Pascua, School of Information Technology Mapua University, Makati City, Philippines

ID 326 Digital Museum for Sparking Business Ideas

Puji Prabowo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
Friska Amalia, Interior Design, School of Design, Bina Nusantara University, Jakarta, Indonesia
Mila A. Savitri, Interior Design, School of Design, Bina Nusantara University, Jakarta, Indonesia

ID 333 Impact of Entrepreneurship Education on Entrepreneurial Intention in Self-Efficacy Mediation

Mediany Kriseka Putri, S.K.G., M.A.B, Lecture and Researcher, Faculty of Economics and Business, Telkom University, Bandung, Indonesia
Audi Elvira Widiyanti, ICT Business Study Program, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 562 Financial Statement Integrity: Intellectual Capital, Leverage, and Audit Quality of Consumer Goods Sector in Indonesia

Annisa Nurbaiti, Faculty of Economics and Business, Telkom University, Bandung, West Java, Indonesia
I Putu Diva Arimbawa Putra, Faculty of Economics and Business, Telkom University, Bandung, West Java, Indonesia

6:00 – 7:45 am, WEDNESDAY**Lean Six Sigma****Virtual Room 2**

Session Chair: José Antonio Taquía Gutiérrez, Instituto de Investigación Científica, Carrera de Ingeniería Industrial, Lima, Perú

ID 279 Consumer Research of Choice Design Model and Extended Warranty Purchase

Mason Chen, Stanford OHS, Academy Hall Floor 2 8853 415 Broadway, Redwood City, CA 94063, USA

ID 3 An Application of Six Sigma DMAIC Phases to Minimize Defects in an Eco Brick Manufacturing Company

Ivy Mar J. Ramos, Industrial Engineering Department, College of Engineering, Bulacan State University, City of Malolos, Bulacan, Philippines

ID 232 Key Research Challenges of Incorporating Official Statistics with Big Data Analytics and Lean Six Sigma

Farah Al Jaghoub, Industrial Engineering and Engineering, Management, University of Sharjah, Sharjah, UAE
Zehra Canan Araci, Assistant Professor, Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, UAE
Concetta Semeraro, Assistant Professor, Industrial Engineering and Engineering, Management, University of Sharjah, Sharjah, UAE

ID 332 IoT Technology for Wildlife Conservation Based on Energy Harvesting

Emad Abd-Elrady, Abu Dhabi Women's College, Higher Colleges of Technology, Abu Dhabi, UAE
Osama Abuelkheir, Alliance Communication Systems, Abu Dhabi, UAE
Khalifa Al-Amer, Abu Dhabi Women's College, Higher Colleges of Technology, Abu Dhabi, UAE

ID 473 Knowledge Mapping on Internet of Thing for Sustainable in Climate Change: A Scientometric Analysis

Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia
Raden Aditya Kristantomo Putra and Riefky Prabowo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia
Donna Carrollina, Visual Communication Design Department, School of Design, Bina Nusantara University, Jakarta 11480, Indonesia

ID 448 Systematic Literature Review of Lean Tools Applied to Software Development

Melanie Paz and Alonso Sasagawa, Universidad de Lima, Escuela de Ingeniería y Arquitectura, Carrera de Ingeniería Industrial, Lima, Perú
José Antonio Taquía Gutiérrez, Instituto de Investigación Científica, Carrera de Ingeniería Industrial, Lima, Perú

ID 574 Analysis of E-Commerce Adoption for MSMEs in the Food and Beverage Sector in Garut Regency

Muhammad Awaluddin, Luthfie Hadie Nugraha, and Siska Noviaristanti, Faculty of Management and Business, Telkom University, Indonesia

6:00 – 7:45 am, WEDNESDAY**Healthcare Systems****Virtual Room 3**

Session Chair: Samantha Naicker, E.I Edoun and Nita Sukdeo, University of Johannesburg, South Africa

ID 55 Patient Appointment Scheduling at Hemodialysis Centers: An Exact Branch-and-Price Approach

Mohammad Reihaneha, IESEG School of Management, Univ. Lille, CNRS, UMR 9221 - LEM - Lille Economie Management, F-59000 Lille, France
Sina Ansarib, Driehaus College of Business, DePaul University, Chicago, IL, USA 60604
Farbod Farhadic, Mario J. Gabelli School of Business, Roger Williams University, Bristol, RI, USA 02809

ID 188 Acceptance, Performance and Challenge Development Hospital Information System at 2 Public Hospitals in Jambi Province

Novia Susianti, Endang Indriasih and Lelly Andayasari, Researcher, National Research and Innovation Agency, Republic of Indonesia, Indonesia
Ahmad Subhan, Lecturer, Faculty of Social and Political Sciences, Nurdin Hamzah University, Jambi, Indonesia
Aris Yulianto, Student, ASEAN Institute for Health Development, Mahidol University, Thailand

ID 203 Understanding the role of Village Health Volunteers (VHVs) in COVID-19 mitigation: A Case of Thailand

Vikas Kumar and Giang Nguyen, Bristol Business School, University of the West of England, Bristol, BS16 1QY, UK
 Kittipol Wisaeng, Assistant Professor, Technology and Business Information System Unit, Mahasarakham University, Maha Sarakham, Thailand
 Amporn Sa-ngiamwibool, Assistant Professor, Phranakhon Si Ayutthaya Rajabhat University, Phranakhon Sri Ayutthaya, Thailand
 Archana Kumari, Assistant Professor, Gloucestershire Business School, University of Gloucestershire, Gloucester, GL2 9HW, UK

ID 206 Cloud-Based Picture Archiving and Communication System (PACS)

Noura Al Nuaimi, Higher Colleges of Technology (HCT), Computer & Information Science (CIS), UAE

ID 222 Consumer Behavioural Effects of The Health Promotion Levy

Samantha Naicker, E.I Edoun and Nita Sukdeo, University of Johannesburg, South Africa

ID 236 Strategy to Improve Quality of Medical Certificate of Cause of Death in health facilities: An Analysis of Mortality Surveillance Data DKI Jakarta Province, Indonesia 2016-2019

Endang Indriasih, Anni Yulianti, Novia Susianti, Ingan Ukur Tarigan and Tati Suryati, Researcher, National Research and Innovation Agency, Republic of Indonesia, Indonesia

ID 313 An Analyses of Indonesian Hospitals Casemix And Casemix Index In 2017 – 2019

Anni Yulianti, Endang Indriasih and Tati Suryati, National Research and Innovation Agency
 Riris Dian Hardiani, Ministry of Health
 Clement Drew, University of Tarumanegara

ID 366 China's Vaccine Diplomacy in Indonesia during the COVID-19 Pandemic

Tasya Asasina Qisthi, International Relations Department, Faculty of Humanities, Bina Nusantara University, West Jakarta, Indonesia

ID 394 Acceptance of Hospital Information System Factor by Hospital Staff based on Technology Acceptance Model; Study on B Type Hospital Owned by Jambi Provincial Government

Aris Yulianto, Student, ASEAN Institute for Health Development, Mahidol University, Thailand
 Ahmad Subhan, Lecturer, Faculty of Social and Political Sciences, Nurdin Hamzah University, Jambi, Indonesia
 Lelly Andayasari and Novia Susianti, Researcher, National Research and Innovation Agency, Republic of Indonesia, Indonesia

6:00 – 7:45 am, WEDNESDAY**Data Analytics****Virtual Room 4**

Session Chair: Ashish Dwivedi, Full Professor, Jindal Global Business School, O.P. Jindal Global University, Sonipat, India

ID 23 A Systematic Review Of Construction Scheduling Methods: Trends, Gaps, And Potential Research Areas

Reuben Ayeni, Chika Udeaja, Daniel Fong, and Yuting Chen, School of Built Environment and Architecture, London South Bank University, United Kingdom

ID 264 Artificial Intelligence Role in Automation of Trade Document Examination Under Letter of Credit Process

Munaf Asad Khalil, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar
 Laoucine Kerbache, Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, and HEC Paris in Qatar, Doha, Qatar

ID 488 OL-Kids Application to Support Play Group Distance Learning Based on Artificial Intelligence (AI) Technology

Andini Putri Maharani, Putri Aliyyah, Umi Harum Mulyani and Gusti Pangestu, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

ID 520 Digital Technology Use Among Small and Medium Sized Enterprises

Christoph Szedlak and Holger Reinemann, University of Applied Sciences Koblenz, Kompetenzzentrum Digitale Technologien im Mittelstand
 Konrad-Zuse-Str. 1, 56075 Koblenz, Germany

ID 197 Business Intelligence Solution for Sustainable Human Resource Management System

Salam Fraihat, Associate Professor, Artificial Intelligence Research Center, College of Engineering and Information Technology, Ajman University, UAE
 Haneen Innab, Data Science Department, King Hussein School of Computing Sciences, Princess Sumaya University for Technology, Amman, Jordan
 Sharif Naser Makhadmeh, Full-time research associate, Artificial Intelligence Research Center, Ajman University, UAE

ID 443 Investigate Hotpot Restaurant Consumers' Habits Change During the Outbreak Using Factor Analysis Approach

Krit Sittivangkul, School of Management, Mae Fah Luang University, Chiang Rai, Thailand
 Urban Safety Innovation Research Group (USIR), School of Health Science, Mae Fah Luang University, Chiang Rai, Thailand
 Sunida Tiwong and Tosporn Arreeras, Urban Mobility Lab., School of Management, Mae Fah Luang University, Chiang Rai, Thailand

ID 525 A Bibliometric Analysis on Advergame

Donna Carollina, Visual Communication Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia
 Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia
 R Aditya Kristamtomo P, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
 Faizal Ardiansyah, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

ID 237 Rethinking Supply Chain Management: A Machine Learning Perspective

Arpit Singh, Assistant Professor, Jindal Global Business School, O.P. Jindal Global University, Sonipat, India
 Ashish Dwivedi, Full Professor, Jindal Global Business School, O.P. Jindal Global University, Sonipat, India
 Suchi Dubey, Associate Professor, School of Business, Manipal Academy of Higher Education, Dubai

6:00 – 7:45 am, WEDNESDAY**Decision Sciences****Virtual Room 5**

Session Chair: Esin Mukul, Galatasaray University, Ortaköy, İstanbul, Turkey

ID 28 Prioritization of Fire Risk Remedial Actions in the Ready-Made Garment Industry of Bangladesh: A Hybrid MCDM Approach

Md. Tanvir Siraj, A. B. M. Mainul Bari and Md. Mahfujul Haq, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh

Md Faiaz Al Islam, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh

ID 344 Performance Assessment of a Technology Company Using Decision Making Approach

Nazli Goker, Research Assistant, Faculty of Engineering and Technology, Galatasaray University, İstanbul, Turkey

Mehtap Dursun, Associate Professor, Faculty of Engineering and Technology, Galatasaray University, İstanbul, Turkey

ID 512 The Effects of Ambiguity on Evaluations of Multiple Prospects

Dolchai La-ornual, Mahidol University International College, Mahidol University, Thailand

ID 514 Hesitant Fuzzy Linguistic Term Sets based AHP-ARAS Methodology for Assessment of Sustainability Action Areas

Gülçin Büyüközkan, Merve Güler and Esin Mukul, Professor of Industrial Engineering, Research Assistant, Research Assistant, Faculty of Engineering and Technology, Galatasaray University, Ortaköy, İstanbul, Turkey

ID 515 Prioritization of Action Plans for Disaster Management using Hesitant Fuzzy Linguistic SAW-COPRAS Methods

Gülçin Büyüközkan, Esin Mukul and Merve Güler, Professor of Industrial Engineering, Research Assistant, Research Assistant, Faculty of Engineering and Technology, Galatasaray University, Ortaköy, İstanbul, Turkey

ID 517 Assessment of Success Factors for AI Application in Supply Chain Management with Fuzzy SAW-MOORA Methods

Merve Güler, Esin Mukul and Gülçin Büyüközkan, Research Assistant, Research Assistant, Professor of Industrial Engineering, Faculty of Engineering and Technology, Galatasaray University, Ortaköy, İstanbul, Turkey

ID 518 Evaluation of Digital Solutions for Sustainable Cities with Fuzzy AHP-EDAS Methods

Esin Mukul, Merve Güler and Gülçin Büyüközkan, Research Assistant, Research Assistant, Professor of Industrial Engineering, Faculty of Engineering and Technology, Galatasaray University, Ortaköy, İstanbul, Turkey

6:00 – 7:45 am, WEDNESDAY**Business Process Management****Virtual Room 6**

Session Chair: Utloma Ohia, Susmita Barman, Bangladesh Army University of Science and Technology, Saidpur-5310, Nilphamari, Bangladesh

ID 526 Developing Quality Criteria for IT-based Learning System using Quality Function Deployment

Gatot Suharjanto, Associate Professor, Architecture Department, Binus University, Jakarta, Indonesia

Ezra Peranginangin, Assistant Professor, Industrial Engineering, Binus University, Jakarta, Indonesia

ID 375 Technology Acceptance Model for Virtual Reality in Hotel Industry

Tiurida Lily Anita, Faculty Member, Hotel Management Department, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta, Indonesia

Arif Zulkarnain and Agung Gita Subakti, Faculty Member, Business Hotel Management Department, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta, Indonesia

Krittapat Pitchayadejanant, Faculty Member, Burapha University International College, Burapha University, Chonburi 20131, Thailand

ID 464 Factor Analysis of Learning Management System Acceptance

Siska Noviaristanti and Hasya Azqia Hanifan, Faculty of Economic and Business, Telkom University, Bandung, Indonesia

ID 476 Digital Technology Use Among Small and Medium Sized Enterprises

Christoph Szedlak and Holger Reinemann, University of Applied Sciences Koblenz, Kompetenzzentrum Digitale Technologien im Mittelstand Konrad-Zuse-Str. 1, 56075 Koblenz, Germany

ID 26 Resource Allocation optimization in government projects as a tool for continuous improvement

Hugo Herrera, Full time Professor, Industrial Engineering program director, Industrial and systems engineering school, Faculty of Engineering Universidad Nacional de Colombia, Colombia

Javier Ojeda, Contract Professor, Project manager, Industrial and systems engineering school, Faculty of Engineering, Universidad Nacional de Colombia, Colombia

ID 228 Improvement of Overall Equipment Effectiveness (OEE) in a Readymade Garment Industry of Bangladesh-A Case Study

Utloma Ohia, Susmita Barman, Md. Firoz Kabir and Md. Ariful Alam, Department of Industrial and Production Engineering, Bangladesh Army University of Science and Technology, Saidpur-5310, Nilphamari, Bangladesh

ID 609 Digital Marketing And Destination Management Models In Shaping Tourist Behaviour

Andriof Chaniago and Muhtosim Arief, Doctor of Research Student in Management, Binus Business School, Binus University, Jakarta, Indonesia

July 27 (WEDNESDAY) - Session: 8:00 – 9:45 am**8:00 – 9:45 am, WEDNESDAY****Plenary II****Onsite Room A**

Session Chair: Yagmur Selenay Selcuk, Department of Industrial Engineering, Ozyegin University, İstanbul, Turkey

Speaker IV – 8:00 – 8:30 am

ID 384 Simulated Annealing Heuristic for Disposable Medical Face Mask Production Scheduling Problem

Yagmur Selenay Selcuk, Elvin Coban and Burcu Balciik, Department of Industrial Engineering, Ozyegin University, Istanbul, Turkey

Speaker V – 8:30 – 9:00 am

ID 468 Analysis of Work-Related Accidents in Italian Landfills

Mara Lombardi, Francesca Mauro and Quintilio Napoleoni, Sapienza - University of Rome, Italy

Mario Fagnoli, Universitas Mercatorum, Rome, Italy

Simona Berardi, Italian Institute for Insurance against Accidents at Work (INAIL), Rome, Italy

Speaker VI – 9:00 – 9:30 am

Prof. Andrea D'Ariano

Associate Professor

Department of Engineering

Roma Tre University

Rome, Italy

8:00 – 9:45 am, WEDNESDAY**Industry Solutions I****Onsite Room B**

Session Chair: Dr. George Pappas, LTU

8:00 am – 8:30 am (Wednesday, July 27)

ID 570 Extending the Control Action - Feedback Loops in STPA-based Safety Analysis with Interdependence Analysis Principles

Arie Adriaensen, Faculty of Engineering Science – Centre for Industrial Management, KU Leuven – Belgium, Department of Mechanical and Aerospace Engineering, Sapienza - University of Rome, Italy and Flanders Make@KU Leuven - Belgium

Laure Buysse, Faculty of Engineering Technology - Dept. Electrical Engineering, KU Leuven Bruges Campus – Belgium

Riccardo Patriarca, Department of Mechanical and Aerospace Engineering, Sapienza - University of Rome, Italy

Liliane Pintelon, Faculty of Engineering Science – Centre for Industrial Management, KU Leuven - Belgium

Davy Pissoot, Faculty of Engineering Technology - Dept. Electrical Engineering, KU Leuven Bruges Campus – Belgium

8:30 am – 9:00 am (Wednesday, July 27)

ID 75 Evaluation of the complexity of generic models in system configuration

Elise Vareilles, Professor, ISAE SUPAERO - Toulouse France

Michel Aldanondo, Professor, IMT Mines Albi - Albi, France

Thierry Coudert, Associated Professor, ENIT / LGP - Tarbes, France

Maryam Mohammadmini, PhD Student, ENIT / LGP – ISAE SUPAERO – IMT Mines Albi – France

9:00 am – 9:30 am (Wednesday, July 27)

Dr. George Pappas

Assistant Professor & Director, MSAI graduate program

Electrical + Computer Engineering

Lawrence Technological University

Southfield, Michigan, USA

8:00 – 9:45 am, WEDNESDAY**Operations Management****Onsite Room C**

Session Chair: Mario Di Nardo, Department of Materials Engineering and Operations Management, University of Naples "Federico II", Italy

ID 192 Development of Mathematical Model to Minimize Total Cost of Service of the Vessels for Discrete Berth Allocation Problem with Vessel Eligibility Restriction

P. U. Ankita and M. Mathirajan, Department of Management Studies, Indian Institute of Science, Bangalore, India

ID 204 Risks and Opportunities within Lean 4.0 Systems: SWOT Analysis

Lina Naciri, MIS Team, Computer Science Department, Mines-Rabat School (ENSMR), Avenue Hadj Ahmed Cherkaoui, Agdal, Rabat, Morocco

SmartiLab. Moroccan School of Engineering Sciences (EMSI), Rabat, Morocco

Maryam Gallab and Aziz Souhli, MIS Team, Computer Science Department, Mines-Rabat School (ENSMR), Avenue Hadj Ahmed Cherkaoui, Agdal, Rabat, Morocco

Safae Merzouk and Brahim El Bhiri, SmartiLab. Moroccan School of Engineering Sciences (EMSI), Rabat, Morocco

Mario Di Nardo, Department of Materials Engineering and Operations Management, University of Naples "Federico II", Italy

ID 309 Survival Analysis-Based Delay Prediction for Production Line with Irregular Events

Irene Erllyn Wina Rachmawan, Issei Suemitsu and Matsuba Hiroya, Intelligent Information Research Department, Center for Technology Innovation Hitachi, Ltd, Japan

ID 458 Numerical Study of Double Diffusive Natural Convection in an Inclined Cavity Filled With Cu-Water Nanofluid

Maryam Bernatchou, Team of Modeling and Simulation in Mechanics and Energetics (MSME), Faculty of Sciences, Mohammed V University in Rabat, Morocco

Kamal Gueraoui, Team of Modeling and Simulation in Mechanics and Energetics (MSME), Faculty of Sciences, Mohammed V University in Rabat, Morocco

Mohammed Cherraj, Team of Modeling and Simulation in Mechanics and Energetics (MSME), Faculty of Sciences, Mohammed V University in Rabat, Morocco

Ahmed Rtibi, Team of Modeling and Simulation in Mechanics and Energetics (MSME), Faculty of Sciences, Mohammed V University in Rabat, Morocco

ID 390 Barriers to Integrating BIM and Sustainable Practices in UAE Construction Projects: Analytic Hierarchical Process Approach

Lama S.M Abu Moeilak, Graduate Teaching Assistant, Ph.D. Engineering System Management, American University of Sharjah, United Arab Emirates

Dania Abuhalimeh, MSc. Construction Management, Graduate Teaching Assistant, American University of Sharjah, United Arab Emirates

Yara Mattar, Student, Ph.D. Engineering System Management, American University of Sharjah, United Arab Emirates

Salwa Beheiry, Associate Professor, Faculty of Civil Engineering, American University of Sharjah, United Arab Emirates, PO Box 26666, Sharjah, United Arab Emirates

8:00 – 9:45 am, WEDNESDAY

Energy and Environment

Virtual Room 4

Session Chair: Satria Fadil Persada, Bina Nusantara University, Jakarta, Indonesia

ID 22 Sustainability and Resilience in the Nigerian Power sector

Justicia C. Ootob, PhD Researcher, School of the Built Environment and Architecture, London South Bank University, 103 Borough Road, London, SE1 0AA, United Kingdom

ID 160 Impact of Fuel Oil Power Plant Diversification to Operational Effectiveness: Case Study in A Mining Company

Achmad Gunawan W, Fajar Marhaendra and Immanuel Roosevelt H, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 255 Development of Smart Electricity Distribution Algorithm for Multi-Source and Segmented Loads in Buildings

Abdul-Azeez Dauda, Stephen Oyewobi, and Supreme Ayewoh Okoh, Department of Telecommunication Engineering, School of Electrical Engineering & Technology, Federal University of Technology, Minna, Niger State, Nigeria

Umar Suleiman Dauda, Department of Electrical & Electronic, School of Electrical Engineering & Technology, Federal University of Technology, Minna, Niger State, Nigeria

ID 280 Characterizing Renewable Electricity Supply in Transitioning Electricity Systems

Varun Jyothiprakash and P Balachandra, Department of Management Studies, Indian Institute of Science, Bangalore, India

ID 138 Genetic Algorithm vs Fireworks Algorithm in Solving the Renewable Energy Integration Problem

Nicolas Lopez and Takeaki Toma, College of Engineering and Technology, Faculty of Industrial Engineering, American University of the Middle East Egaila, Kuwait

ID 290 Utilization of Environmental Wastes from Poultry Eggshell to Manufacture Hydroxyapatite for Dental Biomaterial

Flora Elvistia Firdaus, Mohamad Ikhsan Wahfiudin and Rifdah Aprilianti, Chemical Engineering, Jayabaya University, Jl Pulomas Selatan Kav 23, Jakarta, Indonesia

ID 558 Analysis of Factors that Affecting Impulsive Buying Behavior on Online Snack Products

Mufidah Yahid, Raden Aditya Kristamtomo Putra, Satria Fadil Persada, Zainiyah Alfirdaus, Etsa Astridya Setiyati and Helena Hanindya Kartika Putri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

July 27 (WEDNESDAY) - Session: 10:00 am – 1:00 pm

Keynote Speakers – Onsite Room A / Virtual Room 1

10:00 - 10:30 am - Keynote Speaker V:

Dr. Federica Caffaro

Faculty in Work and Organisational Psychology

Department of Education

Roma Tre University, Rome, Italy

10:20 - 11:00 am - Keynote Speaker VI:

Dr. Virgílio Cruz Machado

Director / Dean, Nova School of Science and Technology | FCT NOVA

Universidade NOVA de Lisboa, Caparica, Portugal

11:00 - 11:40 am - Keynote Speaker VII:

Dr. Tomohiko Sakao
Professor of Sustainable Product/Service Systems
Linköping University, Sweden

11:40 am - 12:20 pm - Keynote Speaker VIII:

Dr. Maria Antonella Ferri
Dean, Economics and Business Management and Full Professor of Management
Universitas Mercatorum, Roma, Italy

12:20 - 1:00 pm - Keynote Speaker IX:

Matteo Balboni
Sr. Engineering Manager | Quality Design | RCS
Medtronic, Mirandola, Italy

1:00 – 2:00 pm – Lunch Break (Provided)

July 27 (WEDNESDAY) - Session: 2:00 – 3:45 pm

2:00 – 3:45, WEDNESDAY

Sustainability

Onsite Room A

Session Chair: Azemeraw Tadesse Mengistu, Department of Management and Engineering, University of Padova, Vicenza 36100, Italy

2:00 pm – 2:30 pm (Wednesday, July 27)

ID 284 Extended Producer Responsibility: A Management Option for E-Waste Management

Petronella Nyakudya, Thea Schoeman, Nkosinathi Madushele and Daniel Madyira, University of Johannesburg, Auckland Park, Johannesburg, South Africa

2:30 pm – 3:00 pm (Wednesday, July 27)

ID 386 Waste identification and reduction in a retail bank in Kuwait using Lean principles

Mohamad Alnajem, Assistant Professor of Operations Management, College of Business Admirations, Gulf University for Science & Technology, Mubarak Al-Abdullah, Kuwait

3:00 pm – 3:30 pm (Wednesday, July 27)

ID 83 Measuring Industrial Sustainability Performance in Small and Medium-sized Enterprises: Analysis of Sustainability Indicators

Azemeraw Tadesse Mengistu and Roberto Panizzolo, Department of Management and Engineering, University of Padova, Vicenza 36100, Italy

2:00 – 3:45, WEDNESDAY

Industry Solutions II

Onsite Room B

Session Chair: Marialuisa Menanno, Department of Industrial Engineering, University of Sannio, Piazza Roma 21, Benevento, Italy

2:00 pm – 2:30 pm (Wednesday, July 27)

ID 43 Analysis of the Effect of Learning on the Solution of a Simple Assembly Line Balancing Problem

Zakaria Zine El Abidine, Imre Dimény and Tamás Koltai, Department of Management and Business Economics, Budapest University of Technology and Economics, Budapest, Hungary

2:30 pm – 3:00 pm (Wednesday, July 27)

ID 99 A Decision Support System for a Modified Kanban-Controlled Flowshop

Ali Ardalan and Roya Ardalan, Professor, Faculty of Information Technology and Decision Sciences, Strome College of Business, Old Dominion University, Norfolk, VA 23529, USA

3:00 pm – 3:30 pm (Wednesday, July 27)

ID 470 Exploring the concurrent impact of costs, travel time and CO2 emissions within a hybrid aisle-line warehouse through Genetic Algorithm

Marialuisa Menanno and Matteo Savino, Department of Industrial Engineering, University of Sannio, Piazza Roma 21, Benevento, Italy

2:00 – 3:45, WEDNESDAY

AI and Industry 4.0

Onsite Room C

Session Chair: Lama S.M Abu Moeilak, American University of Sharjah, United Arab Emirates

ID 492 Forward and Inverse Kinematics of a Robotic Arm on Arduino Platform

Nicholas Lambrache, David Chen, Joseph Fisher, Lidia Olaru and Brian N'Drelan, University of Technology, Department of Mechanical Engineering, Canada

ID 276 Profiling Customers Using Their Credit Card Spending

Ma, Nang Laik, Associate Professor, School of Business, Singapore University of Social Sciences, 461 Clementi Road, Singapore
Murphy Choy, Heriot-Watt University, Edinburgh Business School, Edinburgh, Scotland, United Kingdom

ID 456 Insights into Terrorist's Weapon Choices Using Caterpillar Diagram

Prabal Pratap Singh, Industrial & Management Engineering, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, India
Deepu Philip, Professor of Industrial & Management Engineering and Design Department, Indian Institute of Technology Kanpur, Kanpur, Uttar Pradesh, India

ID 435 Security Issues in UAV-based Infrastructure Monitoring

Francesco Buccafurri, Full Professor, DIIES Dept., University Mediterranea of Reggio Calabria
Francesca Scoleri, Master graduate at DIIES Dept., University Mediterranea of Reggio Calabria

ID 312 Assessing the Livability of Sharjah City Residential Areas Based on People Preferences

Lama S.M Abu Moeilak, Ph.D. Student- Engineering System Management, Sharjah – American University of Sharjah, United Arab Emirates
Alya Al Quraidi, Ph.D. Student- Engineering System Management, Sharjah – American University of Sharjah, United Arab Emirates
Abdullah Al Zarooni, Ph.D. Student- Engineering System Management, Sharjah – American University of Sharjah, United Arab Emirates
Fatin Samara, Professor of Environmental Sciences, Department of Biology, Chemistry and Environmental Sciences, Sharjah – American University of Sharjah, United Arab Emirates

2:00 – 3:45, WEDNESDAY**Engineering Education and Management****Virtual Room 4**

Session Chair: Saed T. Amer, Faculty of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE

ID 98 The Effects of Extended Exam Time on the Performance of Regular Engineering Students

Adham Ragab, Associate Professor, Industrial Engineering Department, King Saud University, Riyadh, KSA
Tamer Khalaf, Assistant Professor, Industrial Engineering Department, King Saud University, Riyadh, KSA
Department of Mechanical Engineering, College of Engineering, Al-Azhar University, Cairo, Egypt
Mohamed Ramadam, Professor, Industrial Engineering Department, King Saud University, Riyadh, KSA
Ahmed Elsherbeeney, Assistant Professor, Industrial Engineering Department, King Saud University, Riyadh, KSA

ID 385 Engineering Education 5.0: Model Curriculum for a Postgraduate Master on Circular Economy

Mariaelena Murphy and Manuel Woschank, Education Portfolio Manager, Senior Lecturer, Resources Innovation Center, Chair of Industrial Logistics
Montanuniversität Leoben, Franz-Josef-Straße 18, 8700 Leoben, Austria
Corina Pacher, Education Project Manager, Life Long Learning, Graz University of Technology, Rechbauerstraße 12, 8010 Graz, Austria

ID 147 Systematic Literature Review on the Work from Home Concept

Fouzeya M. Albastaki, Alaa M. Ubaid, Hamad Rashid, and Ahmed AlShamma'a, College of Engineering, University of Sharjah, University City, Sharjah, UAE

ID 199 Deepmind's Protein Folding Quality Process Analysis

Amro Noueihed, Master of Science in Engineering Management, Rochester Institute of Technology, Dubai, UAE
Dr Slim Saidi, Associate Professor of Industrial Engineering, Rochester Institute of Technology, Dubai, UAE

ID 377 Optimization of production planning in a production line within an automotive company: case study

Zineb Aman, ENSAM School, Moulay Ismail University, Morocco

ID 513 Exploring the Interrelationship Between the Current and Future Sustainable Building Design Factors: UAE Perspective

Rasha Mdkhana, Master Student, Department of Industrial Engineering & Engineering Management, University of Sharjah, Sharjah, UAE
Ahmed Al-Shamma'a, Professor, Dean College of Engineering, University of Sharjah, Sharjah, UAE
Sharfuddin Khan, Assistant Professor, University of Regina, Regina, Canada

ID 302 Bridging the Gaps in HSE Training

Saed T. Amer, Faculty of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE
Jumana Rashed, Student of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE
Ahmad Mayyas, Faculty of College of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE

July 27 (WEDNESDAY) - Session: 4:00 – 5:45 pm**4:00 – 5:45, WEDNESDAY****Onsite Room A****Transition to Human-Centric and Resilient Manufacturing Panel**

Proposal for Panel discussion:

- Welcome and introduction in the topic by Panel Chair – 10 min

- Impulse talk by Dr. Kerstin Johansen about experiences of the Swedish research project “RaSP – Resilient and Sustainable Production” – 20min
- Questions and answers to speaker – 10 min
- Discussion round with 4 panel speakers moderated by panel chair – 65min (each speaker 2 questions with –5min answer + questions from the audience)
- Closure by panel chair – 5min

Panel Chair

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

Panel Speaker I

Prof. Kerstin Johansen
 Senior Associate Professor
 Project leader Resilient and Sustainable Production – Proactive greenfield and brownfield production development (RaSP)
 Jönköping University
 Sweden

Panel Speaker II

Dr. Susanne Vernim
 Member of the Management Board of the Institute for Machine Tools and Industrial Management (iwb)
 Head of Department for Sustainable Production
 Technical University of Munich (TUM)
 Germany

Dr. Emmanuel Francalanza
 Senior Lecturer
 Head of Department of Industrial and Manufacturing Engineering
 University of Malta
 Malta

Panel Speaker IV

Dr. Matthias Wolf
 Assistant Professor
 Deputy Head of Institute for Innovation and Industrial Management
 Graz University of Technology
 Austria

4:00 – 5:45, WEDNESDAY**Global Business Management II****Onsite Room B**

Session Chair: Manuel Woschank, Deputy Head and Senior Researcher, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

4:00 – 4:30 pm, WEDNESDAY

ID 573 Sequencing Problems in Flow Shop Production Systems

Mario Hoffelner, Researcher and Project Assistant, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria
 Manuel Woschank, Deputy Head and Senior Researcher, Chair of Industrial Logistics, Montanuniversitaet Leoben, Leoben, Austria

4:30 – 5:00 pm, WEDNESDAY

5:00 – 5:30 pm, WEDNESDAY

ID 27 Determining the Level of Prefabricated Modules Requirement in Offsite Construction

Rafiq Dimeji Seidu, Ruoyu Jin, Bert Ediale Young and John Ebohon, School of the Built Environment and Architecture, London South Bank University, London, UK
 Yizhe Lu, The Bartlett School of Construction and Project Management, University College London, Faculty of the Built Environment, 1-19 Torrington Place London, UK

4:00 – 5:45, WEDNESDAY**Design and Manufacturing****Onsite Room C**

Session Chair: Carlos J. F. Cândido, Faculty of Economics, University of Algarve, Faro, Portugal

ID 424 Optimum Biodigester Design and Operations

Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa
 Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

ID 13 Taguchi Methods (TM) And Internet of Things (IoT) In Additive Manufacturing (AM): A Brief Literature Review

RRK Sharma, Department of Industrial and Management Engineering, IIT Kanpur, India

Vinay Singh, ABV-IITM Gwalior, India
KK Lai, President, CYUT Taiwan

ID 107 Antecedents of Firm Propensity for ISO 9001 Withdrawal

Luis M. F. R. Ferreira and Carlos J. F. Cândido, Faculty of Economics, University of Algarve, Faro, Portugal

ID 108 Antecedents of Expected Performance after ISO 9001 Withdrawal

Carlos J. F. Cândido and Luís M. F. R. Ferreira, Faculty of Economics, University of Algarve, Faro, Portugal

4:00 – 5:45, WEDNESDAY**Sustainability and Green Systems****Virtual Room 4**

Session Chair: Ali Elkamel, Professor, Department of Chemical Engineering, University of Waterloo, Waterloo, Canada

ID 114 Model to determine humidity level of cloud seeding for agribusinesses in Mexico City

Victor Martin Maldonado-Benitez and Gabriela Guadalupe Escobedo-Guerrero, ESCA Santo Tomás, Instituto Politécnico Nacional, Mexico City, Mexico

Lila Margarita Bada-Carbajal, Instituto Tecnológico Superior de Álamo Temapache, Tecnológico Nacional de México, Veracruz, Mexico

Antonio Uribe-Méndez and Brenda Esmeralda Moreno-Garduño, ESCA Santo Tomás, Instituto Politécnico Nacional, Mexico City, Mexico

ID 148 Exploring the Role of Small Commercial Vehicles in Last Mile Delivery in India

Alok Kumar Singh, Associate Professor, Production and Operations Management, Indian Institute of Management Nagpur, Maharashtra, India

ID 266 Risk Factors in a Sustainable Supply Chain: An Empirical Study of the Egyptian Petrochemical Sector

Lobna Hafez, Assistant Lecturer, College of International Transport and Logistics, Arab Academy for Science, Technology and Maritime Transport, Egypt

Sohaila ElGazar, Assistant Lecturer, College of International Transport and Logistics, Arab Academy for Science, Technology and Maritime Transport, Egypt

Marwa AbdElwahab, Assistant Lecturer, College of International Transport and Logistics, Arab Academy for Science, Technology and Maritime Transport, Egypt

ID 409 A Branch-and-Price Algorithm for Crowdsourcing Vehicle Routing Problem with Cross-Docking in Platform-Driven Crowdsourced Manufacturing Environment

Xuejian Gong, School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA

Shu Wang, School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA

Wenchong Chen, Associate Professor of School of Management, Hangzhou Dianzi University, Hangzhou, Zhejiang, China

Roger J. Jiao, Associate Professor of School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA

Nagi Z. Gebraeel, Professor of H. Milton Stewart School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, GA, USA

ID 613 Ontario Electricity Price Forecasting in the Day Ahead Market Using Bi-directional Long-Short Term Memory Network

Ali Ahmadian, Postdoctoral Research Fellow, Department of Chemical Engineering, University of Waterloo, Waterloo, Canada

Hedia Fgaier, Professor of Mathematics, Full Sail University, Orlando, FL, USA

Ali Elkamel, Professor, Department of Chemical Engineering, University of Waterloo, Waterloo, Canada

July 28 (THURSDAY)

July 28 (THURSDAY) - Session: 6:00 – 7:45 am

6:00 – 7:45 am, THURSDAY**Industry Best Practices****Virtual Room 1**

Session Chair: Sahar Habbadi, Industrial Engineering, Faculty of Science and Technology, University Sidi Mohammed Ben Abdellah, Fès-Morocco

ID 158 Understanding Diversification Strategies of An Indonesia's Coal Mining and Heavy Equipment Company

Bhetha Age Saputra, Dian Novita Sari and Arsyia Nugraha Putratama, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 175 Analysis of Cost Leadership Strategy in Cosmetic Industry

Fauzia Ashwin Hadits, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Depok, Indonesia

Giri Aji Anggoro, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Depok, Indonesia

Putri Aysha Qalbi, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Depok, Indonesia

ID 185 Porter's Five Generic Strategies: A Case Study from Bicycle Company during Covid-19 Pandemic

Irvan Ari Ganda, Joshua and Muhammad Fadhil Rajabi, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia

ID 364 Indonesia's Local Wisdom on Tear and Knead Sustainability vis-à-vis Industrial Engineering and Product Design Engineering

Khristian Edi Nugroho Soebandrija, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, Indonesia

Angelyn Kuancintami, Product Design Engineering, Industrial Engineering Department, BINUS ASO School of Engineering, Bina Nusantara University, Jakarta, Indonesia

University, Jakarta, Indonesia

ID 365 Industrial Engineering Lens on Tear and Knead Production through Product Design Engineering Approach

Ezra Peranginangin, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, Indonesia

Khristian Edi Nugroho Soebandrija, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, Indonesia

Ahmad Tubagus D. P, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, Indonesia

ID 592 Job Shop Scheduling Problem Using Genetic Algorithms

Sahar Habbadi, Industrial Engineering, Faculty of Science and Technology, University Sidi Mohammed Ben Abdellah, Fès-Morocco
Brahim HERROU, Professor of Industrial Engineering, Faculty of Science and Technology, University Sidi Mohammed Ben Abdellah, Fès-Morocco
Souhail SEKKAT, Professor of Industrial Engineering, Ecole Nationale Supérieure d'Arts et Métiers (ENSAM-MEKNES), Meknès, Morocco

6:00 – 7:45 am, THURSDAY

Information Technology and Information Systems

Virtual Room 2

Session Chair: Yuhana Astuti, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 35 Prototype Design of Digital Cash Vault Mobile-based Application for Non-profit Organization

Siti Elda Hiererra, Information Systems Department, School of Information Systems, Bina Nusantara University, Jakarta, Indonesia
Stella Benita Hardjo, Information Systems Department, School of Information Systems, Bina Nusantara University, Jakarta, Indonesia

ID 208 Preliminary Analysis of Parents' Perceptions of Parental Control Apps: A case of Indonesian

Juhriyansyah Dalle, Department of Information Technology, Universitas Lambung Mangkurat, Banjarmasin, Indonesia
Akhmad Yusuf, Department of Mathematic, Universitas Lambung Mangkurat, Banjarmasin, Indonesia
Ahmad Yusuf, Department of Informatics Engineering, Politeknik Negeri Banjarmasin, Indonesia
Ellyn Normelani, Department of Geography, Universitas Lambung Mangkurat, Banjarmasin, Indonesia
Akrim, Department of Islamic Education, Universitas Muhammadiyah Sumatera Utara, Medan, Indonesia
Muhammad Fadillah Hassan, Department of Information Technology, Universitas Lambung Mangkurat, Banjarmasin, Indonesia
Charles Pandhurand, Department of Information Technology, Universitas Lambung Mangkurat, Banjarmasin, Indonesia

ID 370 AlleRT: Food Recommender Web Application with Allergy Filtration

Mary Jane Samonte, School of Information Technology, Mapua University, Manila, Philippines
Zowie Gabrielle De Vera and Carlos Jaime Ruiz Jr., Clarisse Francesca Sunga and Danielle Samonte, School of Information Technology, Mapua University, Philippines

ID 371 e-Chemify: A 2D Simulator Virtual Laboratory for Chemical Experiments

Mary Jane Samonte, School of Information Technology, Mapua University, Manila, Philippines
Sigrid Buela, Ma. Lorraine Pearl Evarado, Clarenz Hale Vasco and Danielle C. Samonte, School of Information Technology, Mapua University, Philippines

ID 372 Market-e: An e - Commerce Platform for Local Markets

Dr. Mary Jane Samonte and Dr. Albert C. Villaluz, School of Information Technology, Mapua University, Manila, Philippines
Ezekiel Cabamongan, John Andrei Gayeta, Angelo Palomo and Danielle C. Samonte, School of Information Technology, Mapua University, Philippines

ID 373 LabSeek: An Outpatient Medical Laboratory Testing Information System Using Location Mapping

Mary Jane Samonte, School of Information Technology, Mapua University, Manila, Philippines
Kiev Baculi, Raphael Ramirez, Aries Santua and Danielle C. Samonte, School of Information Technology, Mapua University, Philippines

ID 577 FDI Productivity Spillovers and Technology Gap: Case Study of LMEs in Indonesia

Yuhana Astuti, Faculty of Economics and Business, Telkom University, Jl. Telekomunikasi No. 1 Buah Batu Bandung, Indonesia

6:00 – 7:45 am, THURSDAY

Sustainability and Green Systems

Virtual Room 3

Session Chair: Raysita Sabilla, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 439 Audit Quality: Client Importance, Audit Capacity Stress, and Audit Fee

Annisa Nurbaiti and Raysita Sabilla, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 495 Frequency of Board of Commissioners Meetings and Foreign Ownership as Determinants of Corporate Social Responsibility Disclosure

Cahyaningsih and Nathasya Nabilla Putri Soleh, School of Economics and Business, Telkom University, Bandung, West Java, Indonesia

ID 511 Nature of Industry and Financial Stability as Indications of Fraudulent Financial Statements

Cahyaningsih and Febrina Niki Ayu Lestari, School of Economics and Business, Telkom University, Bandung, West Java, Indonesia

ID 381 Conceptual Model of Integrated Lean-Green Practices and Supply Chain Sustainability for Manufacturing SMEs

Wilson Kosasih, Department of Technology Management, School of Interdisciplinary Management and Technology, Institut Teknologi Sepuluh Nopember, Jl. Cokroaminoto 12 A, Surabaya 60264, Indonesia
Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. Letjen S. Parman No 1, Jakarta, Indonesia
Nyoman Pujawan, Department of Technology Management, School of Interdisciplinary Management and Technology, Institut Teknologi Sepuluh Nopember, Jl. Cokroaminoto 12 A, Surabaya, Indonesia
Putu Dana Karningsih, Department of Technology Management, School of Interdisciplinary Management and Technology, Institut Teknologi Sepuluh Nopember, Jl. Cokroaminoto 12 A, Surabaya, Indonesia

ID 478 Sustainable Supplier Selection in a Hospital Using the Fuzzy TOPSIS method: A Case Study

Sengpheng To and Duangpun Kritchanhai, Mahidol University, Department of Industrial Engineering, Faculty of Engineering, Phutthamonthon 4 Road, Salaya, Nakhon Pathom, 73170, Thailand

ID 63 A Study on the Impact of Green Cosmetic, Personal Care Products, and their Packaging to Consumers' Purchasing Behavior in Luzon, Philippines

Rhaniel Myxen A. Montes, Glorizen V. Delapaz, Justin Ivan D.R. Oliquino, Hannah Kressel A. Pascasio and Carlos Ignacio JR. P. Lugal, Department of Industrial Engineering, University of Santo Tomas, España Blvd., Sampaloc, Manila, Philippines

ID 367 Corporate Social Responsibility and Eco-Efficiency: Impact on Firm Value in The Indonesian Manufacturing Sector

Anisa Putri Mutiara Sicard, Nadia Talitha Salsabila Tanjung and Holly Deviarti, S.E., M.B.A, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

6:00 – 7:45 am, THURSDAY

Operations Management

Virtual Room 4

Session Chair: Jayne Lois San Juan, Department of Industrial and Systems Engineering, De La Salle University – Manila, Philippines

ID 88 Benefits of Implementing Quality Management Systems in Exploration Drilling Operations - Global Perspectives

Sambil Charles Mukwakunga, Refilwe Dipholo and Nita Sukdeo, Department of Quality and Operations Management, University of Johannesburg Johannesburg, South Africa

ID 179 A Structural Model for Adoption of Omnichannel Apparel Retailing in India

Kosha Joshi and M Mathirajan, Department of Management Studies, Indian Institute of Science, Bangalore, India

ID 209 The Impact of COVID-19 on The Effectiveness of The Indonesian Airport Service Company's Strategy: Case Study of Angkasa Pura I and Angkasa Pura II

Zahrina Zihni, Rangga Damar Bagaskara and Yoga Satria, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 317 e-Chemify: A 2D Simulator Virtual Laboratory for Chemical Experiments

Mary Jane Samonte, School of Information Technology, Mapua University, Manila, Philippines
Sigrid Buela, Ma. Lorraine Pearl Evarado, Clarenz Hale Vasco and Danielle C. Samonte, School of Information Technology, Mapua University, Philippines

ID 323 Optimization of Hybrid Renewable Energy Microgrid System with Considerations for Battery and Ammonia Energy Storage Systems

Kent Louie Y. Wong, Graduate Student, Department of Industrial and Systems Engineering, De La Salle University – Manila, Philippines
Jayne Lois San Juan, Assistant Professor, Department of Industrial and Systems Engineering, De La Salle University – Manila, Philippines

ID 444 Determinants of Marketing Performance and Company Performance: The Role of Employee Creativity As Moderating Variable

Ria Emilia Sari, Doctor of Research in Management, BINUS Business School, Bina Nusantara University, Indonesia
Muhtosim Arief, Doctor of Research in Management, BINUS Business School, Bina Nusantara University, Indonesia

ID 445 Determinants of Innovative Work Behavior: The Role of Job Satisfaction As Mediation And Environmental Dynamism As Moderating Variable

Yanto Tjoa and Muhtosim Arief, Doctor of Research in Management, BINUS Business School, Bina Nusantara University, Indonesia

ID 446 Determinants Of Organizational Citizenship Behavior and Project Performance: The Role Of Communication Frequency As Moderating Variable

Rini Inthalasari, Mohammad Hamsal, Asnan Furinto and Rani Kartono, Doctor of Research in Management, BINUS Business School, Bina Nusantara University, Jakarta Selatan, DKI Jakarta, Indonesia

6:00 – 7:45 am, THURSDAY

Case Studies

Virtual Room 5

Session Chair: Rekha Fakhriyah Pebriyanti, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 241 Production Planning in Pharmacy Industry Using Double Weighted Moving Average and Holt Linear Forecasting Method

Abdul Rosyid, Dewa Ferrouzi Diaz Zhah Pahlevi, Marvin Abhista Rivaliano Bya, Muhammad Irsyad Zharif and Djoko Nurprawito, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 291 Nationalism vs Cosmopolitanism: Internet Shutdown during Papua Riots 2019

Kevin Sanjaya Tanda, Department of International Relations, Faculty of Humanities, Bina Nusantara University, West Jakarta City, Jakarta, Indonesia
Ella Prihatini, Department of International Relations, Faculty of Humanities, Bina Nusantara University, West Jakarta City, Jakarta, Indonesia

ID 296 Gender and Cabinet Ministerial Appointments: Evidence from Indonesia

Faizah Yasmin Widyadiningrum, Department of International Relations, Faculty of Humanities, Bina Nusantara University, West Jakarta City, Jakarta, Indonesia
Ella Prihatini, Department of International Relations, Faculty of Humanities, Bina Nusantara University, West Jakarta City, Jakarta, Indonesia

ID 320 Sudanese Women's Cyberactivism through Twitter

Felicia Michell Elviera, Department of International Relations, Faculty of Humanities, Bina Nusantara University, West Jakarta City, Jakarta, Indonesia
Ella Prihatini, Department of International Relations, Faculty of Humanities, Bina Nusantara University, West Jakarta City, Jakarta, Indonesia

ID 339 Pink Tax" Policies in Asia: A Gendered Poverty Trap?

Sherly Octavia Rosalina Putri Aliansyah, Department of International Relations, Faculty of Humanities, Bina Nusantara University, West Jakarta City, Jakarta, Indonesia
Ella Prihatini, Department of International Relations, Faculty of Humanities, Bina Nusantara University, West Jakarta City, Jakarta, Indonesia

ID 556 Maturity and Readiness of the Basic Production Process for Televisions in the Industrial Pole of Manaus

Flavio de Barros e Azevedo Ramos, Master's Student, Postgraduate Program in Production Engineering, Federal University of Amazonas

Manaus, Brazil.

Sandro Breval Santiago, Teacher Advisor, Postgraduate Program in Production Engineering, Federal University of Amazonas, Manaus, Brazil.

Armando Araújo de Souza Junior, Professor, Postgraduate Programme in Production Engineering, Federal University of Amazonas, Manaus, Brazil.

Roberto Higino Pereira da Silva, Professor, State University of Amazonas, Manaus, Brazil

ID 572 The Effect Of Board Diversity and Audit Quality on Earnings Quality (Study on Non-Financial State-Owned Enterprises Listed on the Indonesia Stock Exchange for the 2016-2020 Period)

Dudi Pratomo, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

Tri Utami Lestari, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

Rekha Fakhriyah Pebriyanti, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

6:00 – 7:45 am, THURSDAY

Modeling and Simulation

Virtual Room 6

Session Chair: Nadya Prameswari, Faculty of Business and Economics, Telkom University, Dayeuhkolot, Bandung, Indonesia

ID 9 Evaluation of the effect of volume parameters on the surface behavior during the application of a paint coating.

Mounira Bourebia and Soumaya Meddah, Industrial Technologies Research Center. CRTI. P.O.BOX 64, chérage-16014, Algeria

Lemboub Samia, National Higher School of Mines and Metallurgy-Ammar Laskri, P.O. Box.32, 23000 Annaba, Algeria

Sihem. Achouri and Amel Oulabbas, Industrial Technologies Research Center. CRTI. P.O.BOX 64, chérage-16014, Algeria

Lakhdar Laouar, University Badji Mokhtar Bp 12-2300, Laboratory of Industrial Mechanics, Annaba, Algeria

ID 261 Modeling Orthotic Insole for Flatfoot using Finite Element Analysis and 3D Scanning

Adham Ragab, Associate Professor, Industrial Engineering Department, King Saud University, Riyadh, Saudi Arabia

ID 403 Business Process Reengineering: A Case Study of The Credit Card Application Process Simulation in A Turkish Bank

Ela Nur Ceryan, Industrial Engineering, Marmara University Faculty of Engineering, İstanbul, Turkey

Hayrunnisa Bulut, Industrial Engineering, Marmara University Faculty of Engineering, İstanbul, Turkey

İrem İkizoğlu, Industrial Engineering, Marmara University İstanbul, Turkey

Banu Çaliş Uslu, Res. Asst. PhD, Industrial Engineering, Marmara University Faculty of Engineering, İstanbul, Turkey

ID 493 Design and Development BINEKA: A Platformer 2D Game for Learning Indonesian Language

Pandu Meidan Pratama, Mufidah Nur Amalia, Gamal Kusuma Zamahsari and Gusti Pangestu, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

ID 565 The Influence of Corporate Governance Mechanism On the Financial Performance of the State-Owned Bank Listed On the Indonesia Stock Exchange (IDX)

Deannes Isyuardhana and Nadya Prameswari, Faculty of Business and Economics, Telkom University, Dayeuhkolot, Bandung, Indonesia

July 28 (THURSDAY) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, THURSDAY

Plenary III

Onsite Room A

Session Chair: Leonardo Ramos Rodrigues, Electronics Division, Institute of Aeronautics and Space, São José dos Campos - SP, Brazil

Speaker VII – 8:00 – 8:30 am

Dr. Andrea FALEGNAMI
Sapienza-University of Rome
Rome, Italy

Speaker VIII – 8:30 – 9:00 am

ID 295 A Hybrid Bio-Inspired Metaheuristic Applied to PID Controller Parameter Tuning

Leonardo Ramos Rodrigues, Electronics Division, Institute of Aeronautics and Space, São José dos Campos - SP, Brazil

João Paulo Pordeus Gomes, Department of Computer Science, Federal University of Ceará, Fortaleza - CE, Brazil

Speaker IX – 9:00 – 9:30 am

ID 230 An analysis of Sentiments of Tweets about Patents

Alptekin Durmuşoğlu, Associate Professor, Department of Industrial Engineering, Gaziantep University, Gaziantep, Turkey

Zeynep Didem Unutmaz Durmuşoğlu, Associate Professor, Department of Industrial Engineering, Gaziantep University, Gaziantep, Turkey

8:00 – 9:45 am, THURSDAY

Global Supply Chain and Logistics I

Onsite Room B

Session Chair: Gattamelata Davide, National Institute for Insurance against Accidents at Work (Inail), Monte Porzio Catone, Italy

8:00 am – 8:30 am (Thursday, July 28)

ID 395 Integration between Star Model components for Project-Based Organizations design: A network analysis

Edison Atencio, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Via Lambruschini 4b, Bovisa, Milan, Italy

Department of Industrial Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2241, 2340000, Valparaíso, Chile

Mauro Mancini, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Via Lambruschini 4b, Bovisa, Milan, Italy

Guillermo Bustos, Department of Industrial Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2241, Valparaíso, Chile

8:30 am – 9:00 am (Thursday, July 28)

ID 113 A Multi - Criteria Decision Making Model for A Drive-Through Test Station Site Selection in Epidemic Situations

Hazal Güverçinci, Senior Student, Industrial Engineering, Faculty of Engineering, Gaziantep University, Turkey
Eren Özceylan, Assoc. Professor, Faculty of Industrial Engineering, Gaziantep University, Gaziantep, Turkey

9:00 am – 9:30 am (Thursday, July 28)

ID 484 Safety and ergonomics enhancement of the foldable rollover protective structures

Gattamelata Davide, Puri Daniele and Vita Leonardo, Department of technological innovations and safety of plants, products and anthropic settlements, National Institute for Insurance against Accidents at Work (Inail), Via di Fontana Candida, 1, 00078 Monte Porzio Catone, Italy
Mario Fargnoli, Universitas Mercatorum, Piazza Mattei, 10, 00186 - Rome, Italy

8:00 – 9:45 am, THURSDAY

Energy, Environment and Safety

Onsite Room C

Session Chair: Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa

ID 363 Solar Energy and Wind Energy Prospect in Bangladesh – Challenges and Opportunities

Rhijan Parves Rhiyon, St. Gregory's High School & College, 82, Municipal Office Street, Luxmibazar, Dhaka-1100 Bangladesh
Anas Ali, Ph.D. Student in Technology Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat 86400, Johor, Malaysia
Ahad Ali, Lawrence Technological University, Southfield, Michigan, MI 48075, USA

ID 425 Diesel Powerplants: Design and Operation and Performance Enhancements

Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa
Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

ID 427 Energy and Environment: Opportunities And Challenges for The Energy Transition

Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa
Oludolapo A. Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

ID 265 Engineering Economy and Cost Analysis of AlSultan's Socks Factory

Aljohara AlSalloom, Department of Industrial Engineering, Alfaisal University, Riyadh, Kingdom of Saudi Arabia
Daliya Al Johani, Department of Industrial Engineering, Alfaisal University, Riyadh, Kingdom of Saudi Arabia
Joud AlTalhi, Department of Industrial Engineering, Alfaisal University, Riyadh, Kingdom of Saudi Arabia
Sara AlSalafi, Department of Industrial Engineering, Alfaisal University, Riyadh, Kingdom of Saudi Arabia
Yara AlFawaz, Department of Industrial Engineering, Alfaisal University, Riyadh, Kingdom of Saudi Arabia

8:00 – 9:45 am, THURSDAY

Design and Sustainability

Virtual Room 4

Session Chair: Annisa Maharani Budi Santosa, and Siska Noviaristanti, Faculty of Economic and Business, Telkom University, Bandung, Indonesia

ID 118 Zara in Qatar

Liza Nadeem, Fatima Alamadi, Ghalya Aljassim and Fajer Almuhammad, Undergraduate Student, Department of Industrial and Mechanical Engineering, College of Engineering, Qatar University, Qatar

ID 413 Environmental Literacy for Sustainable Household Waste Utility through Social Media

Gabriella Sagita Putri, Adhi Murti Citra Amalia H and Nisrin Husna, Public Relations Departmen, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta, Indonesia
Ida Bagus Ananta Wijaya, Interior Design Department, School of Design, Bina Nusantara University, Jakarta, Indonesia

ID 585 The Effect of Service Quality on Customer Satisfaction in The Bailey's and Chloe

Febbi Cempaka Sari, Hotel Management Department, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta, Indonesia
Erma Lusua, Tourism Department, Faculty of Digital Communication and Hotel & Tourism, Bina Nusantara University, Jakarta, Indonesia

ID 560 Determinant Factors of Corporate Social Responsibility Disclosure

Majidah Majidah and Fatimah Ilhami Galih Pangestu, Accounting Department, School of Economics & Business, Telkom University, Bandung, Indonesia

ID 569 Financial Performance: Environmental Performance, Green Accounting, Green Intellectual Capital, Green Product, & Risk Management

Majidah Majidah and Novy Aryanty, School of Economics and Business, Telkom University, Bandung, West java 40257, Indonesia

ID 575 Analysis of E-Wallet's Factor Adoption in Food and Beverage Business

Muhammad Awaluddin, Annisa Maharani Budi Santosa, and Siska Noviaristanti, Faculty of Economic and Business, Telkom University, Bandung, Indonesia

July 28 (THURSDAY) - Session: 10:00 am – 1:00 pm

Keynote Speakers – Onsite Room A / Virtual Room 1

10:00 -10:30 am - Keynote Speaker X:

Prof. Massimo GUARASCIO

(Expert in Safety and Risk Analysis)

Professor, Department of Chemical Engineering Materials Environment (DICMA)

Sapienza-University of Rome, Italy

10:30 -11:00 am - Keynote Speaker XI:

Raphael Grzebieta, PhD

Emeritus Professor (Road Safety), Transport and Road Safety (TARS) Research Centre
School of Aviation, University of New South Wales, Sydney, Australia

11:00 - 11:40 am - Keynote Speaker XII:

Dr. Juan Jesus Perez

Full Professor of Physical Chemistry

Universitat Politecnica de Catalunya, UPC, Barcelona, Spain

11:40 am - 12:20 pm - Keynote Speaker XIII:

Luz María Valdez de la Rosa, Ph.D.

Profesora del Departamento de Ingeniería Civil y Gestión

Escuela de Ingeniería y Tecnologías

Universidad de Monterrey, Mexico

12:20 - 1:00 pm - Keynote Speaker XIV:

Salvatore GIUA

Head of MEP & Safety for Design & Built Activities

SYSTRA SWS, Rome, Italy

Chairman of the Italian Technical Committee 4.4 “Tunnels” of the World Road Association

1:00 – 2:00 pm – Lunch Break (Buffet)

July 28 (THURSDAY) - Session: 2:00 – 3:45 pm

2:00 – 3:45, THURSDAY

Plenary IV

Onsite Room A

Session Chair: Damithri Gayashini Melagoda, The University of Hong Kong, Hong Kong SAR, China

2:00 pm – 2:20 pm (Thursday, July 28)

Onsite Speaker

2:30 pm – 3:00 pm (Thursday, July 28)

ID 260 Collective Mindfulness: A Dimension of Construction Safety Climate

Damithri Gayashini Melagoda and Steve Rowlinson, Department of Real Estate and Construction, Faculty of Architecture, The University of Hong Kong, Hong Kong SAR, China

3:00 pm – 3:30 pm (Thursday, July 28)

ID 624 Healthcare Management during the First Wave of COVID-19: The Qatar Case

Mohamed Sawaly, Department of Supply Chain, Hamad Medical Corporation, Doha, Qatar

Brenno C. Menezes, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar Foundation, Qatar

2:00 – 3:45, THURSDAY

Global Supply Chain and Logistics II

Onsite Room B

Session Chair: Behzad Maleki Vishkai, Department of Business and Management, LUISS University, Rome, Italy

2:00 pm – 2:20 pm (Thursday, July 28)

ID 251 The influence of SCM practices on port supply chain performance: Moroccan case study

Doha Talkhokhet, Professor of Economics, Research Laboratory in Theoretical and Applied Economics, Faculty of Economics and Management of Settat, Morocco

Mohamed-Iliasse Mahraz, PhD in supply chain, AMIPS Team, Mohammadia School of Engineering, Mohammed V University in Rabat, Morocco

Rachida El Yamani and Mohamed Moutmihi, Professor of Economics, Research Laboratory in Economics and Logistics Performance, Faculty of Law, Economics and Social sciences of Mohammedia, Hassan II University of Casablanca, Morocco

2:30 pm – 3:00 pm (Thursday, July 28)

ID 115 Blockchain-based Smart Contracts for Sustainable Food Waste Management and Collaborations

Behzad Maleki Vishkai and Pietro De Giovanni, Department of Business and Management, LUISS University, Rome, Italy

3:00 pm – 3:30 pm (Thursday, July 28)

ID 153 E-commerce challenges in Logistics Management

Judith Nkuna, Department of Quality and Operations Management, University of Johannesburg, South Africa

Andre Vermeulen, Faculty of Engineering and the Built Environment, Department of Engineering Management, University of Johannesburg South Africa

Jan-Harm Pretorius, Engineering and the Built Environment, Department of Engineering Management, University of Johannesburg, South Africa

2:00 – 3:45, THURSDAY

Engineering Education and OM

Onsite Room C

Session Chair: Dimitrios Bechtsis, International Hellenic University, Thessaloniki, Greece

ID 20 Developing Data Analytics Skills for Complex Thinking Among Tomorrow's Global Engineering Leaders

Catherine T. Amelink, Associate Vice Provost, Office of the Executive Vice Provost and Affiliate Faculty Department of Engineering Education Blacksburg – Virginia Tech, United States

G. Don Taylor, Executive Vice Provost and Charles O. Gordon Professor, Grado Department of Industrial and Systems Engineering, Blacksburg – Virginia Tech, United States

ID 274 The Newest Way to Accelerate Your Knowledge

Angeles Gómez, UPAEP, Mexico

Pablo Nuño, UPAEP, Mexico

ID 281 A 3D Simulation Environment for Assessing Interactions with Autonomous Vehicles

Giorgos Karamitsos, Phd Student, Department of Mechanical Engineering, School of Engineering, Division of Industrial Management, Aristotle University of Thessaloniki, Thessaloniki, Greece

Xenofon Karamanos, Phd Student, Department of Mechanical Engineering, School of Engineering, Division of Industrial Management, Aristotle University of Thessaloniki, Thessaloniki, Greece

Dimitrios Vlachos, Professor, Department of Mechanical Engineering, School of Engineering, Division of Industrial Management, Aristotle University of Thessaloniki, Thessaloniki, Greece

Dimitrios Bechtsis, Assistant Professor, Department of Industrial Engineering and Management, School of Engineering, International Hellenic University, Thessaloniki, Greece

Pantelis Mentesis, Postgraduate Student, Department of Industrial Engineering and Management, School of Engineering, International Hellenic University, Thessaloniki, Greece

2:00 – 3:45, THURSDAY

Operations Management

Virtual Room 4

Session Chair: Fatima-Ezzahra Rafie, Mohamed First University, Oujda, Morocco

ID 283 Optimization of consolidated shipping in Cross-Border e-commerce Logistics

Berk Artuner, International Road Freight - Operations Unit Manager, Emaar Square Mall, Ünalán District, Libadiye Street, Üsküdar – İstanbul Dilay Çelebi, Professor, South-east European Research Centre, CITY College, University of York Europe Campus, 24 Proxenou Koromila, Thessaloniki, Greece

Özgül Demir, International Road Freight – Partner Network Manager, Emaar Square Mall, Ünalán District, Libadiye Street, Üsküdar – İstanbul İlker Baltacı, International Road Freight – Process Development & Business Analysis Manager, Emaar Square Mall, Ünalán District, Libadiye Street, Üsküdar – İstanbul

ID 442 Optimization Model for Planning the Logistical Response to COVID-19 Vaccination.

Miguel Angel Arellano Alcaide and Hugo Fabrizio Cobos Valdez, Universidad de Lima, Carrera de Ingeniería Industrial, Lima, Perú
 José Antonio Taquía Gutiérrez, Instituto de Investigación Científica, Carrera de Ingeniería Industrial, Lima, Perú

ID 486 Traveler Application “Pergi Jauh” to Give Recommendation Place for Users

Frederick Silvano, Muhammad Faiz Ahmi, Ruth Rade Awang Pandango, Ruth Rade Awang Pandango and Gusti Pangestu, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

ID 17 Behavioural Finance (BF) And Portfolio Optimization Problem (POP)

RRK Sharma, Dept of IME IIT Kanpur, India
 Vinay Singh, IIITM Gwalior, India
 Pranuthi Kovuri, Dept of Economics IIT Kanpur, India
 KK Lai, President, CYUT, Taiwan

ID 238 Debt Buildup Waves and Economic Growth Nexus: An Empirical Investigation of Morocco

Fatima-Ezzahra Rafie and Mostafa Lekhal, University Research Laboratory in Instrumentation and Organizational Management (LURIGOR), Faculty of Law, Economics and Social Sciences, Mohamed First University, Oujda, Morocco

ID 516 Wrist Deviation influence on Initial Hand Force before wheelchair propulsion Using Digital Human Modeling

Osama T. Al Meanazel, Associate Professor, Industrial Engineering Department, Faculty of Engineering, The Hashemite University, Jordan
 Mazen H. Obeidat, Associate Professor, Industrial Engineering Department, Faculty of Engineering, The Hashemite University, Az Zarqa, Jordan
 Sulieman Obeidat, Associate Professor, Industrial Engineering Department, Faculty of Engineering, The Hashemite University, Az Zarqa, Jordan
 Hesham Ahmad Al-Momani, Associate Professor, Industrial Engineering Department, Faculty of Engineering, The Hashemite University, Az Zarqa, Jordan
 Mohammad M. Hamasha, Associate Professor, Industrial Engineering Department, Faculty of Engineering, The Hashemite University, Az Zarqa, Jordan

July 28 (THURSDAY) - Session: 4:00 – 5:45 pm

4:00 – 5:45, THURSDAY

GSCM III

Onsite Room A

Session Chair: Judith Nkuna, Department of Quality and Operations Management, University of Johannesburg, South Africa

4:00 pm – 4:30 pm (Thursday, July 28)

ID 184 Promoting the Development of Additive Symbiotic Networks with the Adoption of Blockchain Technology

Inês A. Ferreira, PhD Student, Industrial Engineering, NOVA School of Science and Technology, NOVA University of Lisbon, Caparica, Portugal
 Helena Carvalho, Associate Professor, Industrial and Management Engineering, UNIDEMI – Department of Mechanical and Industrial Engineering, NOVA School of Science and Technology, Caparica, Portugal

4:30 pm – 5:00 pm (Thursday, July 28)

ID 426 The Role of Electrification of Transport In The Energy Transition

Moses Jeremiah Barasa Kabeyi, Industrial Engineering Department, Durban University of Technology, Durban South Africa
 Oludolapo Akanni Olanrewaju, Industrial Engineering Department, Durban University of Technology, Durban South Africa

5:00 pm – 5:20 pm (Thursday, July 28)

ID 152 The Improvement of Product and Process Design of Sanitary Pads

Judith Nkuna, Department of Quality and Operations Management, University of Johannesburg, South Africa
 Andre Vermeulen, Faculty of Engineering and the Built Environment, Dept. of Engineering Management, University of Johannesburg, South Africa
 Jan-Harm Pretorius, Engineering and the Built Environment, Department of Engineering Management, University of Johannesburg, South Africa

4:00 – 5:45, THURSDAY

Global Business Management III

Onsite Room B

Session Chair: Edison Atencio, Politecnico di Milano, Milan, Italy

4:00 pm – 4:30 pm (Thursday, July 28)

ID 303 Methodology for eliminating waste combining Lean Logistics and 4.0 Technologies With a case study of a warehouse of a food company

Yusra El kihel, Teacher researcher, IUT of Bordeaux, Department MLT,
 Ali El kihel, Doctor of Industrial Engineering, FST Settat University Hassan I Morocco
 Soufian Embraki, Engineer of smart factory, Laboratory of Industrial Engineering and Seismic Engineering, National School of Applied Sciences ENSA, University Mohamed Premier, Oujda, Morocco

4:30 pm – 5:00 pm (Thursday, July 28)

ID 405 Utilisation of Life Cycle Assessment in Environmental Management: Review

Petronella Nyakudya, Nkosinathi Madushele and Daniel M. Madyira, University of Johannesburg, Auckland Park, Johannesburg, South Africa

5:00 pm – 5:30 pm (Thursday, July 28)

ID 397 An ontology for Project-Based Organization design: The Star Model Case

Edison Atencio and Mauro Mancini, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Via Lambruschini 4b, Bovisa, 20156 Milan, Italy

Department of Industrial Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2241, Valparaíso, Chile

Mauro Mancini, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Via Lambruschini 4b, Bovisa, Milan, Italy

Guillermo Bustos, Department of Industrial Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2241, Valparaíso, Chile

4:00 – 5:45, THURSDAY**Onsite Room C****Diversity and Inclusion Panel Sponsored by Ford Motor Company**

Panel Chair

Professor Donald M. Reimer

President, The Small Business Strategy Group, Detroit, Michigan, USA

Adjunct Faculty – A. Leon Linton Department of Mechanical Engineering

Lawrence Technological University

Southfield, Michigan, USA

Panel Speakers

Professor Eldon G. Caldwell Marin, Ph.D., Sc.D, Dr.Ed. – IEOM President-Elect

Professor, Industrial Engineering Department

Engineering School

University of Costa Rica

San Jose, Costa Rica

Representatives from local organizing committee**4:00 – 5:45, THURSDAY****Smart Technologies****Virtual Room 4**

Session Chair: Roosan Liyons, Georgia Institute of Technology, Atlanta, GA, USA

ID 187 Intelligent Cognitive Assistant for Urban Rideshare Safety Operations Using Deep Visual Learning and Ambient Data Analytics

Roosan Liyons, Georgia Institute of Technology, Atlanta, GA, USA

ID 490 Design and Development E-Sangu the Financial Planner Based on Mobile Technology

Hafizh Naufal Hizbullah, Daffa Pratama, Arda Muhammadan Arifin and Gusti Pangestu, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

ID 494 Control of a 5 Degrees of Freedom Robotic Arm on Arduino Mega Platform

Nicholas Lambrache, David Chen, Joseph Fisher, Lidia Olaru and Brian N'Drelan, University of Technology, Department of Mechanical Engineering, Canada

ID 625 Operations Excellence

John Ezzo, CEO, New Image Building Services Inc., Troy, Michigan, United States

July 28 (THURSDAY) - Session: 7:30 – 10:00 pm

Conference Awards Dinner

FH55 Grand Hotel Palatino Rome

International Journal of Industrial Engineering and Operations Management



Emerald Publishing Services

7th North American IEOM Conference, Orlando, USA, June 11-14, 2022

Venue: Holiday Inn & Suites Across from Universal Orlando. Host: Florida Polytechnic University



8th North American Conference on Industrial Engineering and Operations Management
Houston, Texas, USA, June 13-15, 2023
 Host: Texas A&M Engineering Experiment Station
 Institute of Manufacturing Systems (TEES-IMS)



IEOM Student Chapters



Pontificia Universidad Católica del Perú (PUCP), Lima, Peru



Chinhoyi University of Technology (CUT), Zimbabwe

IEOM Student Chapters around World

Algeria	62. Amrita School of Business – Bangalore	125. Information Technology University of the Punjab, Lahore
1. Adrar University	63. Amrita school of Arts and Sciences, Mysuru	Papua New Guinea
Australia	64. Amrita School of Business, Coimbatore	126. Papua New Guinea University of Technology
2. Queensland University of Tech., Brisbane	65. Aligarh Muslim University, Aligarh	Paraguay
Bahrain	66. Mahant Bachittar Singh College of Engineering and Technology, Jammu	127. National University of Asuncion
3. University of Bahrain	67. Baba Banda Singh Bahadur Eng College	128. Universidad del Cono Sur de las Américas
Bangladesh	68. Ramaiah University of Applied Sciences	Peru
4. Ahsanullah University of Sci & Tech (AUST)	Indonesia	129. National Univ of San Antonio Abad, Cusco
5. Bangladesh Institute of Management (BIM)	69. Atma Jaya Catholic University	130. Universidad de Lima (ULima)
6. BUET	70. Bina Nusantara University (Binus), Indonesia	131. Universidad Peruana de Ciencias Aplicadas (UPC)
7. Bangladesh University of Textiles (BUTEX)	71. Institut Teknologi Bandung	132. Universidad Ricardo Palma (URP)
8. CUET	72. Institut Teknologi Sepuluh Nopember (ITS)	133. Pontificia Universidad Católica del Perú (PUCP)
9. Daffodil International University (DIU)	73. Sampoerna University, Jakarta	134. Universidad Privada del Norte (UPN)
10. DUET, Gazipur	74. Shipbuilding Institute of Polytechnic Surabaya	135. Universidad Continental (UContinental)
11. International Islamic University of Chittagong	75. Tarumanagara University	136. Universidad de Ingeniería y Tecnología (UTECE)
12. IUBAT	76. UIN Sultan Syarif Kasim, Riau	137. Universidad Nacional de Ingeniería (UNI)
13. Islamic University of Technology (IUT)	77. Universitas Diponegoro (Undip)	138. University of San Martin de Porres (USMP)
14. Jessore University of Science and Technology	78. Universitas Gadjah Mada (UGM)	Philippines
15. Khulna University (KU)	79. Universitas Iqra Buru	139. Bulacan State University, Malolos City, Bulacan
16. Khulna University of Eng and Tech (KUET)	80. Universitas Islam Negeri (UIN) Sunan Kalijaga, Yogyakarta	140. LPU Laguna
17. Military Institute of Science and Technology	81. Universitas Islam Negeri Alauddin Makassar	141. Mapua University
18. National Institute of Textile Eng & Res (NITER)	82. Universitas Sebelas Maret (UNS), Surakarta	Qatar
19. Rajshahi University (RU)	83. University of Indonesia	142. Qatar University
20. SUST	84. Universitas Sumatera, Utara Medan	Saudi Arabia
21. University of Chittagong	Iran	143. Alfaisal University
22. World University Bangladesh (WUB)	85. MehrAstan University, Guilan	144. Effat University
Botswana	86. University of Eyvanekey	145. King Abdulaziz University (KAU)
23. University of Botswana	87. Technical and Vocational University (TVU)	146. King Abdulaziz University, Rabigh
Brazil	Iraq	147. King Fahd University of Petroleum and Minerals (KFUPM)
24. Federal University of Sao Carlos (UFScar)	88. Babyon University	148. King Khalid University, Abha
25. Federal University of Santa Catarina (UFSC)	Israel	149. King Saud University (KSU)
26. University of Sao Paulo (USP) – Sao Carlos	89. Sapir Academic College	150. Umm Al-Qura University (UQU)
27. Federal Institute of Sao Paulo, Sorocaba	Italy	151. Princes Nourah University (PNU)
28. FACENS University, Sorocaba	90. University of Bologna	152. Prince Sattam Bin Abdulaziz University
Canada	91. University of Salento	153. Prince Sultan University (PSU)
29. Concordia University	Japan	154. Taibah University
30. Humber Institute of Tech and Adv Learning	92. Ashikaga University	155. University of Tabuk
31. Polytechnic Montreal	Jordan	156. Taibah University
32. University of New Brunswick at Fredericton	93. Hashemite University	157. University of Business and Technology
33. University of Waterloo	Kenya	South Africa
34. University of Windsor	94. Kenyatta University, Nairobi	158. Durban University of Technology (DUT)
Colombia	Libya	159. Tshwane University of Technology (TUT)
35. Fundación Univ. Tecn. Comfenalco, Cartagena, Bolívar	95. Libyan Academy	160. University of Johannesburg (UJ)
36. University of Rosario, Bogota	Malaysia	161. University of South Africa (UNISA)
37. University of Quindio	96. Universiti Malaysia Sabah (UMS)	162. Vaal University of Technology (VUT)
38. Universidad de San Buenaventura, Cali, Valle	97. Universiti Putra Malaysia (UPM)	Sri Lanka
Costa Rica	98. Universiti Teknologi Malaysia (UTM)	163. University of Kelaniya
39. University of Costa Rica	99. Universiti Tun Hussein Onn Malaysia (UTHM)	164. University of Peradeniya
Czech Republic	100. Universiti Utara Malaysia (UUM)	Sudan
40. University of West Bohemia, Pilsen	Mexico	165. Sudan University of Science and Technology, Khartoum
Ecuador	101. Instituto Politécnico Nacional (IPN), Mexico	Thailand
41. Technical University of Ambato	102. Universidad del Caribe, Cancun	166. Chulalongkorn University, Bangkok
Egypt	Morocco	167. Chiang Mai University
42. Zagazig University	103. Akhawayn University	Turkey
Ethiopia	104. Ecole Mohammadia d'Ingénieurs (EMI)	168. Turkish-German University
43. Bahir Dar Institute of Technology	105. Sidi Mohamed Ben Abdellah University of Fez	UAE
Finland	106. N. School of Appl Sci. Kenitra, Ibn Tofail Univ	169. University of Science & Technology of Fujairah
44. University of Vaasa	107. Ecole Supérieure De Technologie, Fez	UK
France	Mozambique	170. University of Derby
45. IESEG School of Management	108. Eduardo Mondlane University	171. University of the West of England, Bristol
46. Lorraine University, Metz	Namibia	USA
Ghana	109. National Univ. of Sci. and Tech. in Windhoek	172. Central Connecticut State University
47. Technological Education Institute (TEI), Thessaly, Larissa	Nepal	173. Eastern Michigan University
Greece	110. Kathmandu University	174. Lawrence Technological University, Michigan
48. Accra Technical University	111. Tribhuvan University	175. University of the District of Columbia
Haiti	Nigeria	176. Indiana State University
49. Université Quisqueya	112. Covenant University	Venezuela
India	113. University of Ibadan	177. Catholic University Andrés Bello, Caracas
50. College of Engineering and Technology, Bhubaneswar, Odisha, India	114. University of Nigeria, Nsukka	Zambia
51. College of Engineering Guindy, Chennai	115. University of Benin	178. University of Zambia
52. Guru Nanak Dev Engineering College	116. Olabisi Onabanjo University	179. Copperbelt University
53. Pandit Dendayal Petroleum Univ., Gujrat	Oman	180. Evelyn Hone College
54. P.D.A. College of Engineering, Gulbarga	117. Sultan Qaboos University	Zimbabwe
55. Vellore Institute of Technology	118. Middle East College	181. University of Zimbabwe, Harare
56. Vidya Jyothi Institute of Technology, Hyderabad	Pakistan	182. National University of Science and Technology
57. Universal College of Engineering & Technology (UCET), Dikiparru, Guntur, Andhra Pradesh, South India	119. Dawood University of Engineering and Technology, Karachi	183. CUT
58. National Institute of Technology (NIT), Warangal	120. Government College University Faisalabad	184. WUA
59. Jawaharlal Nehru Technological University Hyderabad (JNTUH)	121. Mehran University of Engineering and Technology, Jamshoro, Sindh	185. HIT
60. IITS, India	122. Riphah International University, Lahore Campus	High School Chapters
61. Birla Institute of Tech & Sciences (BITS Pilani)	123. University of Engineering and Technology, Lahore	186. Bay Area of San Francisco & San Jose, CA
	124. UOT – Nowshera	187. Arongghata, Khulna, Bangladesh

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Professor, School of Engineering and Technology
Universidad de Monterrey
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Upcoming Events



2nd Indian Conference on Industrial Engineering and Operations Management
August 16-18, 2022, Warangal, India
 Hosts: NIT, Warangal and JNTU, Hyderabad



3rd Asia Pacific Conference on Industrial Engineering and Operations Management
Sept. 13-15, 2022, Johor Bahru, Malaysia
 Hosts: Universiti Teknologi Malaysia (UTM) & Universitas Sebelas Maret (UNS), Indonesia



First Australian Conference on Industrial Engineering and Operations Management
 Sydney, Australia, December 20-22, 2022
 Venue: Hilton Sydney, NSW, Australia



5th International Conference on Industrial and Mechanical Engineering and Operations Management™ (IMEOM)
Dhaka, Bangladesh, December 26-27, 2022
 Venue: Krishibid Institution Bangladesh Complex, Farmgate, Dhaka



13th Annual International Conference on Industrial Engineering and Operations Management
March 7-9, 2023, Manila, Philippines
 Venue: Hilton Manila, Host: De La Salle University



4th African International Conference on Industrial Engineering and Operations Management
Lusaka, Zambia, April 4-6, 2023
 Host: University of Zambia



4th South American Conference on Industrial Engineering & Operations Management
Lima, Peru, May 9-11, 2023
 Venue: JW Marriott Hotel Lima



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