

Organizer



Manila, Philippines

13th International Conference on Industrial Engineering and Operations Management

VENUE

Hilton Hotel Manila

Host University



March 6-9, 2023

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IEOM Society

"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 13th Annual International Conference on Industrial Engineering and Operations Management, Manila, Philippines

To All-Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the 13th Annual **International Conference on Industrial Engineering and Operations Management**, March 6-9, 2023, hosted by De La Salle University (DLSU), Manila. The Venue is Hilton Manila Hotel. 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 700 papers/abstracts submitted from 50 countries. After a thorough peer-review process, more than 500 have been accepted for presentation and publication. The program includes many cutting-edge topics of industrial engineering and operations management.

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

1. Br. Bernard S. Oca FSC, President, De La Salle University
2. Prof. Jose Arturo Garza-Reyes, Professor of Operations Management and Head of the Centre for Supply Chain Improvement, College of Business, Law and Social Sciences, University of Derby, UK
3. Mynard Bryan R. Mojica, Deputy Director, Policy Development Group, Financial Inclusion Office, Philippine Central Bank
4. Jorey Guzman, Regional Manager, Factory Automation South East Asia, Siemens, Singapore
5. Prof. Ts. Dr. Massila Kamalrudin, Vice Chancellor, Universiti Teknikal Malaysia Melaka (UTeM), Malacca, Malaysia
6. Professor Charles Mbohwa, Ph.D., Professor at University of Johannesburg, South Africa and Past Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe
7. Jeremy Lim, Business Process Transformation Vice-President, Robotic Process Automation (RPA) and Workflow Program Lead, Robinsons Bank Corporation, Manila, Philippines
8. Dr. Marcelo Ang, Professor of Control & Mechatronics, National University of Singapore
9. Dr. Fitra Lestari, Vice Dean for Academic Affairs in Faculty of Science and Technology and Professor in Industrial Engineering Department, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia – IEOM Student Chapter Activities Presentation
10. Joyce Ramos, Senior Vice President, Head of Country and Business Development, LF Logistics Philippines, Manila, Philippines
11. Dr. Rosnani Ginting, Head of Graduate Program of Industrial Engineering, Universitas Sumatera Utara, Indonesia
12. Dominic Ligot, Founder and Chief Technology Officer, CirroLytix, Manila, Philippines
13. Dr. Mohammad T. Khasawneh, Professor & Chair, State University of New York at Binghamton, Binghamton, New York, USA

The 37th IEOM Society Global Engineering Education session will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The 36th IEOM Industry Solutions will showcase major topics including IoT, AI, data analytics, iCloud, cybersecurity, automation, digital manufacturing, MSV, and industry best practices. The 16th IEOM Global Supply Chain and Logistics will address the global logistic challenges due to the pandemic. 7th Global Business Management addresses operations excellence. Six-panel sessions have been planned: Industry 4.0, Industry Solutions, Global Engineering Education, Supply Chain, Women in Industry and Academia, Global Engineering Education, and Diversity & Inclusion sponsored by Ford Motor Company.

The IEOM Society would like to express our deep appreciation to conference chair and program chair from De La Salle University respective to Dr. Rosemary Seva and Dr. Charlle Sy. Thanks 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.

De La Salle University, the conference host, welcomes all participants. The IEOM Society Conference Planning Committee hopes you will enjoy the Manila conference. We wish all of you for a successful and memorable event.

Enjoy the conference!



Dr. Rosemary Seva
Conference Chair
Professor of Industrial and Systems
Engineering
De La Salle University
2401 Taft Avenue
Manila 1004, Philippines



Dr. Charlle Lee Sy
Conference Chair
Professor and Chair
Industrial and Systems
Engineering
De La Salle University
Manila 1004, Philippines



Dr. Ahad Ali
Conference Co-Chair
Associate Professor and Director
of IE Program, Lawrence Tech
University, Michigan, USA
Executive Director, IEOM Society



Prof. Don Reimer
Program Co-Chair
Director of Membership and
Chapters – IEOM Society
President, The Small Business
Strategy Group, Southfield,
Michigan, USA

Conference Overall Program

All times are Manila Time

Day 1 – March 6, 2023 (Monday)

08:00 – 18:00 Competitions and Technical Presentations – Virtual via ZOOM

Day 2 – March 7 (Tuesday)

08:00 – 09:45 Technical Presentations – Breakout Rooms

10:00 – 10:20 Welcome Address: Br. Bernard S. Oca FSC, President, De La Salle University - Ballroom

10:20 – 11:00 Keynote I: Prof. Jose Arturo Garza-Reyes, Professor of Operations Management and Head of the Centre for Supply Chain Improvement, College of Business, Law and Social Sciences, University of Derby, UK

11:00 – 11:40 Keynote II: Mynard Bryan R. Mojica, Deputy Director, Policy Development Group, Financial Inclusion Office, Bangko Sentral ng Pilipinas, Calabarzon, Philippines

11:40 – 12:20 Keynote III: Jorey Guzman, Regional Manager, Factory Automation South East Asia, Siemens, Singapore - Ballroom

12:20 – 01:00 Keynote IV: Prof. Ts. Dr. Massila Kamalrudin, VC, Universiti Teknikal Malaysia Melaka (UTeM), Malacca, Malaysia - Ballroom

01:00 – 02:00 Buffet Lunch

02:00 – 03:45 Technical Presentations – Breakout Rooms

04:00 – 05:45 Technical Presentations – Breakout Rooms

06:00 – 08:00 Networking – Career and Higher Study Opportunities - Ballroom

Day 3 – March 8 (Wednesday)

08:00 – 09:45 Technical Presentations – Breakout Rooms

10:00 – 10:20 Student Chapter Activity Presentations - Ballroom

10:20 – 11:00 Keynote V: Professor Charles Mbohwa, Ph.D., Professor at University of Johannesburg, South Africa and Past Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe

11:00 – 11:40 Keynote VI: Jeremy Lim, Business Process Transformation Vice-President, Robotic Process Automation (RPA) and Workflow Program Lead, Robinsons Bank Corporation, Manila, Philippines

11:40 – 12:20 Keynote VII: Dr. Marcelo Ang, Professor of Control & Mechatronics, National University of Singapore

12:20 – 01:00 Keynote VIII: Dr. Fitra Lestari, Vice Dean for Academic Affairs in Faculty of Science and Technology and Professor in Industrial Engineering Department, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

01:00 – 02:00 Buffet Lunch

02:00 – 03:45 Technical Presentations – Breakout Rooms

04:00 – 05:45 Technical Presentations – Breakout Rooms

Day 4 – March 9 (Thursday)

08:00 – 09:45 Technical Presentations – Breakout Rooms

10:00 – 10:20 Student Chapter Activity Presentations - Ballroom

10:20 – 11:00 Keynote IX: Joyce Ramos, Senior Vice President, Head of Country and Business Development, LF Logistics Philippines, Manila, Philippines

11:00 – 11:40 Keynote X: Dr. Rosnani Ginting, Head of Graduate Program of Industrial Engineering, Department of Industrial Engineering, Universitas Sumatera Utara, Indonesia

11:40 – 12:20 Keynote XI: Dominic Ligot, Founder and Chief Technology Officer, CirroLytix, Manila, Philippines

12:20 – 01:00 Keynote XII: Dr. Mohammad T. Khasawneh, Professor & Chair, Systems Science and Industrial Engineering, State University of New York at Binghamton, Binghamton, New York, USA

01:00 – 02:00 Buffet Lunch

02:00 – 03:45 Technical Presentations – Breakout Rooms

04:00 – 05:45 Technical Presentations – Breakout Rooms

7:00 – 10:00 pm, Thursday, March 9
Conference Awards Dinner Buffet – Hilton Manila Hotel

Keynote Speakers

Tuesday, March 7, 2023

10:00 – 10:20 am, Tuesday, March 7, 2023 - **Welcome Address**



Br. Bernard S. Oca FSC
President
De La Salle University

Tuesday, March 7, 2023, 10:20 - 11:00 am - Keynote I - **Opening Keynote**



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

Prof. Jose Arturo Garza-Reyes is a Professor of Operations Management and Head of the Centre for Supply Chain Improvement at the College of Business, Law and Social Sciences, University of Derby, UK. He is actively involved in industrial projects where he combines his knowledge, expertise and industrial experience in operations management to help organisations achieve excellence in their internal functions and supply chains. He has also led and managed international research projects funded by the British Academy, British Council and Mexico's National Council of Science and Technology (CONACYT). As a leading academic, he has published extensively in leading scientific journals, including the Int. Journal of Production Research, Int. Journal of Production Economics, Journal of Cleaner Production, Supply Chain Management: An International Journal, TQM & Business

Excellence, Journal of Manufacturing Technology Management, etc., and a number of international conferences. Professor Garza-Reyes has also published four books in the areas of operations management and innovation, manufacturing performance measurement and quality management systems. He is Co-founder and current Editor of the Int. Journal of Supply Chain and Operations Resilience (Inderscience) and will lead the launch of the official IEOM's journal Int. Journal of Industrial Engineering and Operations Management as its Editor-in-Chief. Professor Garza-Reyes has also led and guest edited special issues for Production Planning & Control, Supply Chain Management: An International Journal, Int. Journal of Lean Six Sigma, Int. Journal of Lean Enterprise Research, Int. Journal of Engineering Management and Economics, and Int. Journal of Engineering and Technology Innovation. Areas of expertise and interest for Professor Garza-Reyes include general aspects of operations and manufacturing management, business excellence, quality improvement, and performance measurement. He is a Chartered Engineer (CEng), a certified Six Sigma-Green Belt, and has over eight years of industrial experience working as Production Manager, Production Engineer and Operations Manager for several international and local companies in both the UK and Mexico. He is also a fellow member of the Higher Education Academy (FHEA) and a member of the Institution of Engineering Technology (MIET).

11:00 am – 11:40 am, Tuesday, March 7, Keynote II:

Jorey Guzman
Regional Manager
Factory Automation South East Asia
Siemens
Singapore

11:40 am – 12:20 pm, Tuesday, March 7, Keynote III:

Mynard Bryan R. Mojica
Deputy Director, Policy Development Group
Financial Inclusion Office, Bangko Sentral ng Pilipinas
Calabarzon, Philippines

12:20 pm – 1:00 pm, Tuesday, March 7, Keynote IV:

**Prof. Ts. Dr. Massila Kamalrudin**

Vice Chancellor, Universiti Teknikal Malaysia Melaka (UTeM)
Hang Tuah Jaya, Durian Tunggal, Malacca, Malaysia

Born in Malacca, Prof. Ts. Dr. Massila Kamalrudin is a Doctor of Philosophy graduate from the University of Auckland, New Zealand in the field of Electrical and Electronic Engineering. Her area of expertise is Software Engineering specifically in Software Requirements Engineering. She has also completed her postdoctoral in the field of Software Engineering - Requirements Engineering from Swinburne University of Technology Melbourne, Australia. She started her career as a tutor from 2004 at Universiti Teknikal Malaysia Melaka (UTeM). At a young age, Prof. Ts. Dr. Massila Kamalrudin was awarded the title of Professor at UTeM in August 2020 and was appointed as the Vice Chancellor of UTeM in March 2022. Prof. Ts. Dr. Massila received the Malaysian Young Women Scientist Award 2020 from MINDS Malaysia and in 2022 she received the Women Icon Award in the Innovative Academic Award category from Times Women and The World Women Council.

Wednesday, March 8, 2023

10:00 am – 10:20 am, Wednesday, March 8 - Student Chapter Activity Presentation

10:20 am – 11:00 am, Wednesday, March 8, Keynote V:

**Professor Charles Mbohwa, Ph.D.**

Past Pro-Vice Chancellor Strategic Partnerships and Industrialisation
University of Zimbabwe
Harare, Zimbabwe

Professor Charles Mbohwa is a Pro-Vice Chancellor Strategic Partnerships and Industrialisation at University of Zimbabwe and an affiliated Professor in the Faculty of Engineering and the Built Environment. He is an established researcher and professor in the field of sustainability engineering and energy. He was the Chairman and Head of Department of Mechanical Engineering at the University of Zimbabwe from 1994 to 1997 and was Vice-Dean of Postgraduate Studies Research and Innovation in the Faculty of Engineering and the Built Environment at the

University of Johannesburg from 2014 to 2017. He has published more than 350 papers in peer-reviewed journals and conferences, 10 book chapters and three books. He has a Scopus h-index of 11 and Google Scholar h-index of 14. Upon graduating with his BSc Honours in Mechanical Engineering from the University of Zimbabwe in 1986, he was employed as a mechanical engineer by the National Railways of Zimbabwe. He holds a Masters in Operations Management and Manufacturing Systems from University of Nottingham and completed his doctoral studies at Tokyo Metropolitan Institute of Technology in Japan. He was a Fulbright Scholar visiting the Supply Chain and Logistics Institute at the School of Industrial and Systems Engineering, Georgia Institute of Technology, a Japan Foundation Fellow, is a Fellow of the Zimbabwean Institution of Engineers and is a registered mechanical engineer with the Engineering Council of Zimbabwe. He has been a collaborator in projects of the United Nations Environment Programme. He has also visited many countries on research and training engagements including the United Kingdom, Japan, Germany, France, the USA, Brazil, Sweden, Ghana, Nigeria, Kenya, Tanzania, Malawi, Mauritius, Austria, the Netherlands, Uganda, Namibia and Australia. He has had several awards including British Council Scholarship, Japanese Foundation Fellowship, Kubota Foundation Fellowship; Fulbright Fellowship.

11:00 am – 11:40 am, Wednesday, March 8, Keynote VI:

**Mr. Jeremy Lim**

Business Process Transformation Vice-President
Robotic Process Automation (RPA) and Workflow Program Lead
Robinsons Bank Corporation
Manila, Philippines

11:40 am – 12:20 pm, Wednesday, March 8, Keynote VII:

**Dr. Marcelo Ang**

Professor of Control & Mechatronics
National University of Singapore
Singapore

12:20 pm – 1:00 pm, Wednesday, March 8, Keynote VIII:

Dr. Fitra Lestari

Vice Dean for Academic Affairs in Faculty of Science and Technology
Professor in Industrial Engineering Department
Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

IEOM Student Chapter UIN SUSKA Riau Presentation

Thursday, March 9

10:00 am, Thursday, March 9 – Student Chapter Activity Presentation

10:20 am – 11:00 am, Thursday, March 9, Keynote IX:



Joyce Ramos

Senior Vice President
Head of Country and Business Development
LF Logistics Philippines
Manila, Philippines

11:00 am – 11:40 am, Thursday, March 9 - Keynote X:



Ir. Rosnani Ginting, MT, Ph.D, IPU, ASEAN Eng.
Head of Graduate Program of Industrial Engineering
Department of Industrial Engineering
Faculty of Engineering
Universitas Sumatera Utara, Indonesia

Ir. Rosnani Ginting is a professor and Head of Graduate Program of Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Universitas Sumatera Utara, Indonesia. She is a Ph. D from Universiti Sains Malaysia. The areas of her specialization are Production System, Product Design and Planning, Machine Scheduling, Manufacturing System Plan, Decision Support System and Enterprise Resource Planning. She is active as Her published books Production Systems, Machine Scheduling, Product Planning, Industrial Engineering Plan, Decision Support System, Questionnaire, and QFD. She has published numerous international papers. Her papers with title "TRIZ or DFMA Combined with QFD as Product Design Methodology: A Review", and also title "Integration of quality function deployment and value engineering: A case study of designing a Texon cutting tool" indexed on SCOPUS. Her book chapter has also published in

Intechopen Publisher with title "Integrated Model of Product Design Methods".

11:40 am – 12:20 pm, Thursday, March 9 - Keynote XI:



Mr. Dominic Ligot

Founder and Chief Technology Officer
CirroLytx, Manila, Philippines

Data analyst, researcher, software developer, entrepreneur and technologist. Advocate for data literacy, data ethics and social impact from data. His current work focuses on human rights, public health, food security, political risk and fighting disinformation and infodemics through the use of computational social science, social listening, remote sensing, artificial intelligence and data engineering. Dominic founded CirroLytx, a social impact AI company and co-founded Data Ethics PH, an online community focused on social issues such as data privacy, data security, AI-driven discrimination, data liabilities, data ownership rights, and data poverty. Doc also cofounded the Analytics Association of the Philippines (AAP) and is a Board of Trustees member of the Philippine Center for Investigative Journalism (PCIJ). Doc's teams are back-to-back global winners in the NASA International Space Apps Challenge for data-driven dengue surveillance and COVID-19 global pandemic response monitoring and also the Global Winner of the Technology Award in the EO Dashboard

Hackathon for mobility and air quality.

12:20 pm – 1:00 pm, Thursday, March 9, Keynote XII:

**Dr. Mohammad T. Khasawneh, Ph.D.**

SUNY Distinguished Professor and Chair, Systems Science and Industrial Engineering
Director, Watson Institute for Systems Excellence
Director, Healthcare Systems Engineering Center
Graduate Program Director, Executive Master of Science in Health Systems
Thomas J. Watson College of Engineering and Applied Science
State University of New York at Binghamton, Binghamton, New York 13902, USA

Dr. Mohammad Khasawneh is a SUNY Distinguished Professor and Chair of Systems Science & Industrial Engineering at Binghamton University. He received his Ph.D. in Industrial Engineering from Clemson University, South Carolina, in August 2003, and his B.S. and M.S. in Mechanical Engineering from Jordan University of Science and Technology, Jordan, in 1998 and 2000, respectively. Dr. Khasawneh's research is focused on healthcare systems engineering, operations management, and data science. Dr. Khasawneh currently serves as the Director for the Watson Institute for Systems Excellence (WISE), an institute for advanced studies that generates 3-4 million US\$ in research funds annually. In addition, he currently serves as the founding director of the Healthcare Systems Engineering Center, an organized research center (ORC) at Binghamton University.

Since 2003, Dr. Khasawneh has been leading a wide spectrum of projects with U.S. hospital systems that focus on applied research in the area of healthcare systems engineering. More specifically, his research is focused on the novel application of systems engineering to transform healthcare systems into high-performance environments that produce better patient outcomes at lower costs. His work is applied in ways that lead to optimal healthcare, including more efficient use of hospital resources; better outpatient scheduling; streamlined patient flow; improved patient satisfaction; reduced hospital-acquired conditions (e.g., infections and patient falls) through predictive analytics; and improved clinical, operational and financial performance using advanced data science methods.

His health systems engineering center generates over one million dollars annually in sponsored research from various healthcare and hospital systems. Building on a successful research program and partnerships with health systems around the country and an academic concentration/minor, at the graduate/undergraduate levels, Dr. Khasawneh developed a 12-month Executive Master of Science with a Health Systems Concentration, which has been offered in Manhattan since 2013. He has also been instrumental in developing a new M.S. degree program in Healthcare Systems Engineering.

Over the years, Dr. Khasawneh presented his research at various national and international conferences, including China, India, Mexico, Jordan, Korea, Thailand, Japan, Turkey, Indonesia, and Canada. Dr. Khasawneh's research activities thus far have led to 60+ refereed journal articles, 120+ conference articles, one patent, and three new invention disclosures. In addition, his sponsored research efforts thus far have resulted in over \$15 million in external funding and over 39 million in software/equipment grants.

In 2006, Dr. Khasawneh received a U.S. Air Force Summer Faculty Fellowship to evaluate the use of multi-sensory cues to improve the landing of unmanned aerial vehicles. In 2009, he received another fellowship from the U.S. Air Force Office of Scientific Research to design ergonomic computer workstations for very large displays. Dr. Khasawneh received the State University of New York (SUNY) Chancellor's Award for Excellence in Teaching in 2011, the University Award for Outstanding Graduate Director in 2015, the University Award for Excellence in International Education in 2016, and the SUNY Chancellor's Award for Excellence in Scholarship and Creative Activities in 2021. He is a member of the Alpha Pi Mu and Alpha Epsilon Lambda honor societies.

Dr. Khasawneh also holds the Diplomate status with the Society for Health Systems (SHS), a professional society within the Institute of Industrial and Systems Engineers (IISE) that supports the industrial engineering profession and individuals involved with improving quality and productivity within healthcare. More recently, Dr. Khasawneh was also recently recognized as an IISE Fellow, the highest classification of the IISE membership. Dr. Khasawneh also holds an honorary visiting professor position with the Industrial Engineering Department at Hebei University of Technology in Tianjin, China, and Vellore Institute of Technology in Vellore, India.

Online Keynotes, March 8, Wednesday at 9:00 am – Zoom Room 6

Prof. Sardar M. N. Islam (Naz) Ph. D., LL. B. (Law)

Professor, ISILC, Victoria University, Melbourne, Australia.

Distinguished Visiting Professor of Artificial Intelligence, UnSri.

Adjunct Professor of IT and Business, Armstrong Institute, Melbourne.

Editor-in-Chief of "International Transactions on Artificial Intelligence"

**Dr. M. Manzoor Hussain**

Registrar

Professor, Department of Mechanical Engineering

Jawaharlal Nehru Technological University (JNTU)

Hyderabad, Telangana, India

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Dr. Devdas Shetty, University of Hartford, Connecticut, USA,
Dr. Hamid Seifoddini, University of Wisconsin-Milwaukee, USA,
Dr. Masine Md. Tap, Universiti Teknologi Malaysia,
Dr. Zulkifli Mohamed Udin, Universiti Utara Malaysia,
Dr. Alok Verma, Old Dominion University, Norfolk, Virginia, USA,
Dr. Venkata Seshachala Sarma Yadavalli, University of Pretoria, South Africa,
Dr. Hari Agung Yuniarto, Universitas Gadjah Mada, Indonesia
Dr. Li Zheng, Tsinghua University, China,
Dr. Henk Zijm, Dutch Institute for Advanced Logistics, University of Twente, Netherlands
Dr. Devashis Mitra, University of New Brunswick, Fredericton, Canada.
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Dr. Hesham Kamal Al-Fares, King Fahd University of Petroleum and Minerals, Saudi Arabia
Dr. Khaled S. Al-Sultan, King Fahd University of Petroleum and Minerals, Saudi Arabia,
Dr. Mohamed Essaaidi, Professor and Director (Dean), ENSIAS College of Engineering – Mohamed V University in Rabat, Morocco,

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Dr. Ir. H. A. Dirgahayu Lantara, MT, IPU, Department of Industrial Engineering, Universitas Muslim Indonesia, Makassar, Indonesia,
Dr. Heri Setiawan, S.T., M.T., Department of Industrial Engineering, Universitas Katolik Misi Charitas
Dr. Ir. Eduart Wolok, ST, MT, Universitas Negeri Gorontalo, Indonesia,
Professor Dr. Noordin Mohd. Yusof, Universiti Teknologi Malaysia

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Dr. Kannan Govindan, University of Southern Denmark, Denmark
Dr. Kondo H. Adjallah, Paul-Verlaine University, France
Dr. Lamto Widodo, ST., MT, Universitas Tarumanegara, Jakarta, Indonesia
Dr. Linda L. Zhang, IESEG School of Management, Lille-Paris, France
Dr. Mahdi Bashiri, Shahed University, Iran
Dr. Mahmood Shafiee, Cranfield University, Bedfordshire, United Kingdom
Dr. Maruf Hasan, University of New South Wales, Australia
Dr. Md. Abdus Samad Kamal, Gunma University, Kiryu, Japan
Dr. Md. Mamun Habib, Independent University, Bangladesh
Dr. Md. Mizanur Rahman, Universiti Malaysia Sabah (UMS), Malaysia
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Dr. Norhamidi Muhamad, UKM, Malaysia
Dr. Norzaidahwati Zaidin, Universiti Teknologi Malaysia, Johor, Malaysia
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Dr. Sarbjit Singh, National Institute of Technology, Jalandhar, Punjab, India

Dr. Sawat Pararach, Thammasat University, Thailand
Dr. Shahrul B. Kamaruddin, Universiti Sains Malaysia
Dr. Shahryar Sorooshian, University Malaysia Pahang, Malaysia
Dr. Suat Kasap, American University of the Middle East, Kuwait
Dr. Suhaiza Hanim Zailani, University Malaya, Malaysia
Dr. Syed Asif Raza, Qatar University, Qatar
Dr. T. Ramayah, School of Management, Universiti Sains Malaysia,
Dr. Tanika D Sofianti, Industrial Engineering Dept., Engineering Faculty, Swiss
German University BSD City Kav. Tangerang, Banten, Indonesia
Dr. Theodore B. Trafalis, University of Oklahoma, USA
Dr. Titah Yudhistira, ST, MT, Institut Teknologi Bandung, Indonesia
Dr. Vassilis Gerogiannis, Department of Project Management, Greece
Dr. Vladimir Beresnev, Sobolev Institute of Mathematics, Russia
Dr. Vladimir I. Tsurkov, Russian Academy of Sciences, Moscow, Russia
Dr. Vladimir Modrak, TUKE, Slovakia
Dr. Yong Yin, Yamagata University, Japan
Dr. Yosi Agustina Hidayat, ST, MT, Institut Teknologi Bandung, Indonesia
Dr. Yuan Xue Ming, SIMTech, Singapore
Dr. Zuraidah Sulaiman, Universiti Teknologi Malaysia (UTM), Johor, Malaysia
Dr. D. K. Banwet, IIT-Delhi, India
Eko Setiawan, ST, MT, Ph.D, Universitas Muhammadiyah Surakarta
Jonrinaldi, ST, MT, Ph.D, Universitas Andalas, Padang, Indonesia
Markus Hartono, S.T., M.Sc., Ph.D, CHFP, Universitas Surabaya, Indonesia
Nurhadi Siswanto, Institut Teknologi Sepuluh November, Surabaya, Indonesia
Prof. Dr. Anand Kumar, M.S. Engineering College, Bangalore Karnataka, India
Dr. Taufiq Immawan, Universitas Islam Indonesia, Yogyakarta, Indonesia
Dr. Halim Mahfud, Department of Industrial Engineering, UPN Veteran
Jakarta, Indonesia
Yun Arifatul Fatimah, Universitas Muhammadiyah Magelang, Indonesia
Andi Sudiarmo, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia
Dr. Arian Dhini, ST, MT., Department of Industrial Engineering Universitas
Indonesia
Dr.Eng. Ir. Irma Nur Afiah, Universitas Muslim Indonesia, Makassar, Indonesia
Dr. Wahyuda, ST, MT, Department of Industrial Engineering, Universitas
Mulawarman
Dr. Ir. Adrian Nur, S.T., M.T., Universitas Sebelas Maret, Surakarta, Indonesia
Dr. Eng. Hendri Widyandari, S.Si., M.Si., University Centre of Excellence for
Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta,
Indonesia
Retno Tanding Suryandari, Universitas Sebelas Maret, Surakarta, Indonesia
Didiek Sri Wiyono, Universitas Sebelas Maret, Surakarta, Indonesia
Dr. Fethma M Nor, Department of Mechanical Engineering, Curtin University,
Malaysia
Assoc. Prof. Ts. Dr. Muhammad Azizi Mat Yajid, Director
(Materials, Manufacturing & Industrial Engineering, Universiti Teknologi
Malaysia, Malaysia
Dr. Auditya Purwandini Sutarto, University of Qomaruddin Gresik, Indonesia
Dr. Leo Aldianto, Institut Teknologi Bandung, Indonesia
Abroon Qazi, Ph.D., Fellow Society of Actuaries | Chartered Enterprise Risk
Analyst, Assistant Professor, Department of Marketing & Information Systems,
School of Business Administration (AACSB accredited), American University of
Sharjah, PO Box 26666, Sharjah, United Arab Emirates

Plenary Speakers

37th IEOM Global Engineering Education

Readiness Gap and Improvement in Engineering Graduates around the World

Tuesday (March 7, 2023)

Global Engineering Education

2:00 - 3:40 pm, Tuesday, March 7 - Room 1 (Onsite)

Session Chair:

2:00 – 2:20 pm, Tuesday



Reynaldo B. Veja

President and CEO of the Mapua University
Chairman and CEO of iPeople, Inc.

Dr. Reynaldo B. Veja is currently the President and CEO of the Mapua University. He is also the Chairman and CEO of iPeople, Inc., an education company that has as its subsidiaries the following schools: Malayan Colleges Laguna, Mapua-Malayan Colleges Mindanao, University of Nueva Caceres, National Teachers College, the Malayan High School of Science and the APEC schools.

2:20 – 2:40 pm, Tuesday



Dr. Philip P. Ermita, PIE, PhD, ASEAN Eng.

Associate Professor
Chief, Technology Business Incubation Center
Program Chair, MS in Industrial Engineering
Polytechnic University of the Philippines (PUP)

Dr. Philip Ermita is a Professional Industrial Engineer and ASEAN Engineer Register and currently working as Associate Professor, Chief for Technology, Business, and Incubation Center in Polytechnic University of the Philippines (PUP), Sta Mesa, Manila. In concurrent, Dr. Ermita also serves as the program chair for the Master of Science in Industrial Engineering (MSIE) in the Graduate School of PUP. From 2015 to 2021, Dr. Ermita worked as the Dean of the College of Engineering of the University of Perpetual Help System DALTA Calamba, Campus. From 2010 to 2015, Dr. Ermita served as Assistant Professor and Associate Dean, in the College of Engineering, Architecture, and Technology of De La Salle University Dasmariñas, Cavite. From 2005-2010, He worked in different manufacturing industries such as ceramics and electronics manufacturing companies. While working in the academe, Dr. Ermita also serves as a consultant and trainer in several manufacturing and service industries and government agencies in the Philippines. He earned his Doctorate degree in Engineering Management and Masters of Engineering Major in Industrial Engineering at Nueva Ecija University Science and Technology and Adamson University respectively. He also obtained his Bachelor's degree in Industrial Engineering and Diploma in Business Administration from De La Salle University – Dasmariñas, Cavite. Underlying all of his work to uplift the standards of Engineering Education, Dr. Ermita is an active researcher, evaluator, peer reviewer, and active participant in different scholarly events, journal publications, conferences, and symposiums. Dr. Ermita is also an Accreditor and Evaluator of the Philippine Association of Colleges and Universities- Commission on Accreditation (PACUCOA) and Philippine Technological Council (PTC).

2:40 – 3:00 pm, Tuesday



Dr. Siti Sarah Omar

Associate Professor
Faculty of Technology Management and Business
Universiti Tun Hussein Onn Malaysia (UTHM)
Johor Malaysia

Dr. Siti Sarah Omar is an Associate Professor at the Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia (UTHM) Johor Malaysia since 2008. She obtained her Phd Degree in Management from University of Southampton, United Kingdom in 2015. She was graduated from International Islamic University Malaysia for the Bachelor Degree of Business Administration with Honors in 2002 and Master of Science (Human Resource Development) at Universiti Teknologi Malaysia (UTM) Johor in 2006. Prior to joining UTHM she had several years of teaching experience at the private higher institution in Kuala Lumpur. She has several years of holding leadership and management position either at the Faculty level and University level. Currently she holds a position of Deputy Director of University Technopreneurship Centre in UTHM. Her expertise is in the field of Human Resource Management, Human Resource Development, Entrepreneurship and Entrepreneurial Networking. She has published several books, plentiful of Scopus indexed and ISI journals; and conference proceedings since 2010. She has several local and international grant projects on HR and green entrepreneurship that gives impact to the students and community She is also an active and dynamic trainer that delivers training and consultations to private and government agencies. Recently she has been awarded the Human Resource Development Corporation Training for Trainers Professional Certificate apart

from many other credentials such as Certified NLP Basic Practitioner, Certified NLP Coach, Certified NLP Lab Profiling and Certified NLP Student Trainer.

3:00 – 3:20 pm, Tuesday



Dr. Peter Ureta

Fellow, Philippine Institute of Civil Engineers (PICE)
Charter Member, PICE LNM Chapter
Fellow, Association of Structural Engineers of the Philippines (ASEP)
Chair – Technical Committee of Civil Engineering (TCCE), Commission on Higher Education (CHED)
Member – Technical Panel For Engineering and Technology (TPET), CHED

3:20 – 3:40 pm, Tuesday



Dr. Yuseni Bin Ab Wahab, PhD, P.Tech

Deputy Vice Chancellor (Research and Corporate Development)
University of Malacca (UniMEL)
Malaysia

Ts. Dr. Yuseni bin Ab Wahab is a Doctor of Philosophy graduated from the Technical University of Malaysia Malacca (UTeM) in the field of software engineering and Artificial intelligent. His area of expertise is Software Engineering specifically in system design and system analysis. He was graduated from Universiti Malaysia Sabah (UMS) for the Bachelor Degree of information Technology with Honors in 1999 and Master of Computer Science (Software engineering and artificial intelligent) at Technical University of Malaysia Malacca (UTeM) Malacca in 2010. He started her career as a lecturer from 2000 at Universiti Melaka (UniMel). He has several years of holding leadership and management position as Dean of Faculty level and top management of university level. Currently he holds a position of Deputy Vice Chancellor (Research and Corporate Development) of UniMel. He has published several books, plentiful of Scopus indexed and ISI journals; and conference proceedings since 2010. He has several local grant projects on Information technology that gives impact to the students and community. many other professional certificates such as Professional Technologist (Ts) in Malaysia Board of Technologist and International Association of Computer Science and Information technology.

Plenary Speakers

7th IEOM Global Business Management

Operations Management Excellence in Business Operations

Global Business Management - I

Tuesday, March 7, 2023, 8:00 - 9:40 am - Ballroom (Onsite)

Session Chair: Dr. Ayham Jaaron

8:00 – 8:20 am, Tuesday, March 7



Jayson Barlan

Executive Director for Non-academic Operations
Lyceum of the Philippines University-Manila
Manila, Philippines

Jayson M. Barlan is currently the Executive Director for Non-Academic Operations at Lyceum of the Philippines University in Intramuros, Manila. Jayson has been an active Senior Philippine Quality Award (PQA) Consultant and Assessor since 2015 and has occupied various positions in the South Manila Educational Consortium – Student Affairs Committee. His expertise is in Quality Management Systems, Business Performance, and Operations Management. He is a candidate for a Doctor of Philosophy in Management in Education. In addition, he has a Master's Degree in Public Administration and a graduate of Bachelor of Arts in Mass Communication.

8:20 – 8:40 am, Tuesday, March 7



Dr. Ayham Jaaron

Senior Lecturer in Business and Management
De Montfort University
Leicester, UK

Dr Ayham Jaaron is an experienced Senior Lecturer in Business and Management at De Montfort University, Leicester. Before this, he was an Associate Professor in Sustainable Management at the Industrial Engineering Department of An-Najah National University (ANU) in Palestine 2010-2019. Ayham is also recognized for his expertise and contributions to the quality of education in Palestine. He led the largest ABET Accreditation project in the region for seven engineering programs simultaneously at ANU, that resulted in a successful ABET Accreditation process. He is also accredited academic program evaluator by Palestinian Accreditation and Quality Assurance Commission (AQAC) for new program applications made by Palestinian Universities. Ayham's multidisciplinary high-quality research has introduced him as a leading sustainability researcher with

an established and growing national and international profile in his research areas. His research activities have recently focused on sustainable service operations management using systems thinking approach, green logistics and supply chains management, sustainable manufacturing and Industry 4.0, quality management, and green human resources management in the manufacturing and service sectors.

8:40 – 9:00 am, Tuesday, March 7



Dr. Sundaravalli Narayanaswami

Indian Institute of Management
Ahmedabad
India

Sundaravalli Narayanaswami is on the faculty, Public Systems group, IIM Ahmedabad. She earned her PhD in Industrial Engineering and Operations Research from IIT Bombay, India after a Masters in Computer Science. Her research and teaching interests involve applications of ICT and OR tools in real-life problems of large impact. Sundaravalli has taught at various Institutions in India and abroad. She publishes and reviews regularly for scholarly editorials and presents her research findings among peers, both in India and abroad. She is a life

member of several professional associations and was a Fellow of the British Computer Society (2009-2013). She serves on the Editorial board of the Annals of Management Science.

9:00 – 9:20 am, Tuesday, March 7



Dr. Hendro Sasongko

Dean
Faculty of Economics and Business
Pakuan University
Bogor, Indonesia

Water for Everyone – Tradeoff between Affordability and Business

Hendro Sasongko is from Indonesia, one of the countries in ASEAN with the fourth largest population in the world. He completed his diploma program and obtained an accountant degree from the State College of Accountancy in 1990 and continued to obtain a master of management from the Business School of IPB University in 2001 and a doctorate in finance at the same school in 2012. He has 28 years of teaching

experience, and currently he is the dean of the Faculty of Economics and Business at Pakuan University, the largest private university in the city of Bogor, Indonesia, and also as a lecturer in the postgraduate program at Business School of IPB University. Apart from being an academic, he also serves as a commissioner of an affiliated company of a state-owned enterprise, an investment advisory team for the Regent of Bogor Regency, deputy chairman of the Bogor City Wage Council, as well as a financial consultant in several government institutions and companies. He is also a member of the Indonesian Economist Association and a member of the Indonesian Institute of Accountants. The area of his research include financing, capital structure, financial analysis model, tariff design on infrastructure, management strategic, and is currently focusing on research in the context of regional economic development, including the development of MSMEs, Villages and Village Owned Enterprise.

9:20 – 9:40 am, Tuesday, March 7



Continuous Innovation

At Eaton, we are continually pursuing new ideas with our current and future technologies to help customers meet their goals. Our valvetrain solutions such as cylinder deactivation and hollow engine valves that are engineered to deliver efficient performance while withstanding the extreme heat requirements. Our supercharger technologies for advanced boosting provide the instant throttle response and improved fuel efficiency customers desire. We are constantly innovating differentiated technologies to provide advanced solutions for the industry and our customers.

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Plenary Speakers

36th IEOM Industry Solutions and Industry 4.0 - Plenary

Continuous Improvement and Productivity

Wednesday, March 8, 2023

Industry Solutions and Industry 4.0 - I

8:00 – 9:40 am, Wednesday, March 8 – Room 2

2:00 pm – 2:20 pm, Wednesday, March 8



Marvin Dela Pena Rafols
Human Resources Manager
Universal Robina Corporation
Cebu, Central Visayas, Philippines

2:20 pm – 2:40 pm, Wednesday, March 8



Bryan Jay Capistrano, IE, MSc. in IEM
Senior Process Engineer
Toyota Motor Philippines Corporation
Manila, Philippines

2:40 pm – 3:00 pm, Wednesday, March 8



Raymund Canalita
Supply Chain Operations & Industrial Engineering Manager
ON Semiconductor Cebu Philippines, Inc. or Onsemi Cebu
Cebu, Philippines

Mr. Raymund O. Cañalita, a Bachelor of Science in Industrial Engineering graduate and currently completing his Masters in Science for Management Engineering degree at the University of San Jose Recoletos. He has a diverse background and experience in various aspects of Supply Chain Management and Industrial Engineering. He is currently the Department Head of the same functions at the ON Semiconductor Cebu Philippines, Inc. or Onsemi Cebu.

3:00 pm – 3:20 pm, Wednesday, March 8



Grace Nacorda
Operations Manager
Knowles Electronics
Cebu, Central Visayas, Philippines

3:20 pm – 3:40 pm, Wednesday, March 8



Alex Ocampo
CEO & Chief Executive Consultant
Continuous Improvement Training & Consulting
Cebu, Central Visayas, Philippines

Industry Solutions and Industry 4.0 - II

2:00 – 3:40 pm, Wednesday, March 8 – Room 2

2:00 pm – 2:20 pm, Wednesday, March 8

**Marciano B. Hermo IV, MBA, LSSMBB**

Founder and Managing Director, INNOVEO Consulting
 Faculty Member, Miriam College, Higher Education Unit
 Board of Trustee, Entrepinoy Volunteers Foundation, Inc.
 Manila, Philippines

Marc is the Managing Director and Principal Consultant of INNOVEO Consulting. He is also a faculty member at Miriam College's Higher Education and is an active executive volunteer and board member of EVFI (Entrepinoy Volunteers Foundation Inc). Marc was previously General Manager and Head of Process Excellence at Cognizant, Vice-President and Head of Process Improvement at JPMorgan Chase & Co., Senior Process Engineering Manager at Dell International Services Philippines, and Quality Engineering Manager at Intel Philippines. Marc is a Lean Six Sigma professional with over 20 years of experience in Lean Six Sigma (deployment, implementation, training,

mentoring, and coaching), Innovation, Process Improvement and Transformation, Quality Management, and Project Management in Business Process Outsourcing, Banking and Financial Services, and Semiconductor Manufacturing. He earned his Lean Six Sigma Master Black Belt certification from Arizona State University. He also completed his Lean Six Sigma Black Belt and Project Management certification at the University of California Irvine and Mastering Design Thinking from the Massachusetts Institute of Technology. Marc received his MBA from the Asian Institute of Management and has a bachelor's degree in Metallurgical Engineering from the University of the Philippines. He is currently a doctoral candidate at California Southern University with a concentration in Project Management and Process Improvement. Marc received the Joanna & Richard Sosnowski Award from the Mu Delta Mu International Honor Society in Business in 2022.

2:20 pm – 2:40 pm, Wednesday, March 8

**Zarren Aleta Gaddi, CLSSYB**

Data Analytics Specialist, San Felipe Neri Catholic School
 Professor, Jose Rizal University
 Manila, Philippines

Maximizing Data Analytics in the Classroom and School Setting

2:40 pm – 3:00 pm, Wednesday, March 8

**Ma. Teresa U. Bagaman, MBA, LSSMBB**

Director of Global Benchmarking Network (GBN)
 Strategic Innovation Consultant and former Vice President of the Center for Innovation and Lifelong Learning (CILL), The Medical City (TMC)
 Past President of the Philippine Society for Quality (PSQ)
 Senior Lecturer, Dept of Industrial Engineering and Operations Research
 University of the Philippines

Topic: Leading a Culture of Innovation in Healthcare through Lean Six Sigma 4.0

Teresa is a PhD student on Business Leadership at the Ateneo School of Management. She also received the Gold Honor MBA Award from the Ateneo Graduate School of Business and Regis University, USA, and Superior Performance Award at the Asian Institute of Management (AIM). She is a graduate of Industrial Engineering from the University of the Philippines. For more than 24 years, she worked for San Miguel Corporation (SMC), the

Philippines' premier food and beverage company, where she led the design and application of pioneering and innovative solutions on Customer Experience, Customer Relationship & Knowledge Management, Business Process Improvement, and Outsourcing in the various businesses of SMC such as Beer, Food, Telco, Corporate, and IT Services. For over eight years in TMC, she successfully implemented innovative and disruptive solutions in healthcare as head of CILL and of Network Quality Management. Driven by her passion for lifelong learning, she completed certification courses on: Disruptive Innovation from Harvard Business School; Innovation Management & Design Thinking from HEC Paris; Data Science/Data Visualization, Change Management, and Strategic Planning from eCornell University; and Healthcare Operations Management, University of Pennsylvania Health Systems. She won 1st Prize in the International Benchmarking Award for TMC in Dubai during the Global Benchmarking Competition in 2015. The benchmarking study presented in Dubai was accepted by the scientific committee of World Health Organization (WHO), Vienna for presentation during the WHO Conference at Yale University in 2016.

3:00 pm – 3:20 pm, Wednesday, March 8

**Dr. Abdul Talib Bon**

Professor, Department of Production and Operations Management
Universiti Tun Hussein Onn Malaysia

Topic: *Digital Woodworking Manufacturing for Industry 4.0*

Dr. Abdul Talib Bon is Professor of Production and Operations Management in Department of Production and Operations Management at the Universiti Tun Hussein Onn Malaysia (UTHM). He has a PhD in Manufacturing, which he obtained from the Universite de La Rochelle, France. He studied Business Administration major in Quality Management at the master's level in the Universiti Kebangsaan Malaysia for which he was awarded the MBA. He's bachelor degree and diploma in Mechanical Engineering which he obtained from the Universiti Teknologi Malaysia. He received his postgraduate certificate in Mechatronics and Robotics from Carlisle, United Kingdom. He is Director of Teaching Factory since 1 September 2016. Dr. Abdul Talib Bon has had over 33 years experiences of teaching in higher learning education. In UTHM, he teaches Industrial Engineering and Project Management at the under-graduate and postgraduate level. Dr. Abdul Talib Bon has multidisciplinary research interests that encompass industrial engineering, forecasting and Green Supply Chain management. He completed 25 research grant projects as project leader and research member. He has supervised more than 120 undergraduate and postgraduate research projects. He has served as a reviewer for a number of industrial engineering, engineering management and computer science conferences and journals as part of his expertise sharing initiatives. He had published more than 400 Journals and Proceeding Scopus Indexed and 10 books. He is also Fellow and President of Industrial Engineering and Operation Management Society (IEOMS, Malaysia), Global Council member of Industrial Engineering and Operation Management Society (IEOMS Global),

3:20 pm – 3:40 pm, Wednesday, **March 8**



Dr. G. Gopalakrishnan, B.E., M. Engg., Ph. D., Ph. D.(Cal.), Mem. ASME, FIE, CE(I), FIET (UK)
Provost & formerly Rector / Vice Chancellor, Dr.MGR Edu.& Res. Instt. (DU)
"The Palms", #22/14 Ramanathan Street, Kilpauk, Chennai 600010. India

Dr G. Gopalakrishnan is basically a Mechanical Engineering Graduate from the College of Engineering, Guindy, Chennai; a Gold Medalist from the Calcutta University for his Master's degree and holds two Ph.D.s – one from Calcutta University and another from IIT, Madras /RWTH, Aachen, Germany. He has been a Professor in Mechanical Engineering at IIT, Madras. He is a former Vice Chancellor, Rector and currently Provost of Dr MGR Educational & Research Institute, Chennai, India. He has published Four books in Engineering (Turbomachinery) and also has to his credit around 65 papers at various Conferences, Seminars, and also in listed journals, all in "Centrifugal Turbomachines" and on "Student Psychology". He has been involved in promoting OBE as a faculty member in his University. Of late he has been into accreditation of engineering colleges and Universities and was also a Chairman of the Board of Assessors of some Universities under the NAAC, till recently. He has been expounding the philosophy of Outcome Based Education, through some of his lectures at various institutes. He is

a Fellow of the IET (UK) and the IEI (India).

14th International Conference on Industrial Engineering and Operations Management

February 12-14, 2024, Dubai, United Arab Emirates (UAE)

Venue: Hyatt Regency Dubai

Host : Khalifa University, Abu Dhabi

<http://ieomsociety.org/dubai2024/>

Conference Chair:

Dr. Mohammed Omar

Professor and Chair

Department of Industrial and Systems Engineering

Khalifa University, Abu Dhabi, UAE

Plenary Speakers

16th IEOM Global Supply Chain and Logistics – Plenary

Sustainability and Resilient in Supply Chain

Thursday (March 9, 2023)

Global Supply Chain and Logistics I

2:00 – 3:40 pm, Thursday, March 9 – Room 1 (Onsite)

2:00 pm – 2:20 pm



Rai Antonio De Jesus, MBA, CPSM®
VP & Group Head of IT Procurement
PLDT
Manila, Philippines

2:20 pm – 2:40 pm



Engr. Ricardo P. Rabang “PIE MSc CLSSMBB CBCP
Special Industry Lecturer
Technological Institute of the Philippines

2:40 pm – 3:00 pm



Renee Desquitado
Operations and Supply Chain Leader
Eaton Corporation
Calabarzon, Philippines

3:00 pm – 3:20 pm



Dr. Lanndon Ocampo
Associate Professor, Department of Industrial Engineering
Director, Center for Applied Mathematics and Operations Research
Cebu Technological University (CTU), Cebu, Philippines

Lanndon Ocampo is an Associate Professor in the Department of Industrial Engineering and the Founding Director of the Center for Applied Mathematics and Operations Research at Cebu Technological University (Philippines). He received his Ph.D. in Industrial Engineering from De La Salle University (Philippines) and his MEng and BSc (cum laude) degrees in Industrial Engineering, as well as an MSc degree in Mathematics from the University of San Carlos (Philippines). He has authored over 150 international peer-reviewed journal papers (130 are indexed in the Scopus database) and has presented papers at over 30 research conferences. His research interests include multi-attribute decision-making, problem structuring, and uncertainty modelling. He is a Member of the Editorial Board of the Advances in Production Engineering and Management, International Journal of Business and Systems Research (Inderscience), International Journal of Management and Decision Making (Inderscience), Engineering Management in Production and Services, and the Proceedings in Manufacturing Systems.

He won numerous awards from the DOST-Science and Education Institute for completing the PhD program, the DOST for the National Award for Excellence in Science, the Mathematical Society of the Philippines Cebu for Best Research Paper in Applied Mathematics during the 2015 MSP Cebu Convention, the International Association on Organizational Innovation for the Outstanding Paper Award during the 2014 International

Conference on Organizational Innovation, the Fairchild Semiconductor for the 2012 Best Paper Award, and several International Publication Awards from the University of the Philippines. He is a 2017 Outstanding Young Scientist awardee by the National Academy of Science and Technology, Philippines (NAST PH), and a 2018 Outstanding Cebuano awardee in the field of Science and Technology. He is named one of 2018 THE ASIAN SCIENTIST 100 – an annual listing of the region's top researchers, academics, and innovators. He is conferred as the 2019 Achievement Awardee of the National Research Council of the Philippines (NRCF) under the Division of Engineering and Industrial Research, and a recipient of the 2021 NRCF Manuscript Grant and 2022 NRCF Research Dissemination in Local and International Platforms (RDLIP) Publication Grant. Most recently, he has been considered as one of the 2021 Outstanding Asian Science Diplomats. Dr. Ocampo is listed in the 2021 and 2022 Top 2% of the world's researchers based on composite citation metrics developed by a team of statisticians from Stanford University and Elsevier.

As of 2022, aside from university-funded projects, he has received more than Php 15 million in research project grants from the Department of Science and Technology, Department of Tourism, Commission on Higher Education, and the DOS-NRCF. With an international collaboration funded by the SingHealth Duke-NUS Global Health Institute (SDGHI), he is a member of the project team working on "Comparing COVID-19 Mitigation Strategies Across ASEAN Countries". Also, he is the RDLearner for the Palompon Institute of Technology under the DOST Science for Change Program (S4CP). Dr. Ocampo is a Regular Member of the National Research Council of the Philippines (NRCF), a Director of the Mathematical Society of the Philippines Cebu, and a member of the International Society of Multiple Criteria Decision Making, Industrial Engineering & Operations Management Society, International Association of Engineers, Mathematical Society of the Philippines, Philippine Association of Research Managers, Inc., Outstanding Young Scientists, Inc., and Alpha Phi Omega International (Philippines), Inc.

3:20 pm – 3:40 pm



Dr. Anak Agung Ngurah Perwira Redi
Interim Head of Industrial Engineering Study Program
Sampoerna University, Jakarta, Indonesia

Dr. Redi is currently Interim Head in the Department of Industrial Engineering at Sampoerna University, Indonesia. Formerly, a research fellow at Monash University, Australia. He received his PhD in Industrial Management from the National Taiwan University of Science and Technology in 2017. He has many experiences in national and international research project related to logistics, supply chain, information system and many others. Area of expertise: Computer Science, Engineering, Mathematics, Decision Science, Business Management, Supply Chain Management, Logistic Engineering. His current research interests focus on the development of algorithms for optimization and its application in logistics and SCM problems.

Global Supply Chain and Logistics II

4:00 – 5:40 pm, Thursday, March 9 – Room 1 (Onsite)

Session Chair:

4:00 pm – 4:20 pm

Engr. Mary Jane Dwyer
Strategic Continuous Improvement Leader

Currently a Strategic Continuous Improvement Leader with more than 20 years of successful deployment of Lean Management Systems and Enterprise Risk Management programs for numerous industries across in Supply Chain & Manufacturing Transformations across several industries including Automotive, Aerospace, Technology and Contract Office Furniture Supply Chain. Her work and expertise in the HOSHIN process deployment has been published in The Basics of Hoshin Kanri (Productivity Press) book. On top of that, her work at Knoll for Business Continuity Planning & Risk Management was featured in the REASON Magazine 2nd issue of 2018. She has also been a featured speaker and panel member at the Supply Chain Risk Forum held at several venues in Europe since 2017 and have been a Panel member at the University of Cambridge Business Risk Hub in 2019 held in London. She is an alumna of UST Department of Industrial Engineering and is currently residing at Pennsylvania, USA.

4:20 pm – 4:40 pm

Dr. Cosme Nonan
Director / GM of CFS Inc.
Professor / Practitioner Supply Chain Management and International Logistics

4:40 pm – 5:00 pm



Albert Wee Kwan Tan, PhD
Associate Professor
Academic Program Director, Online Master in Business Administration
Asian Institute of Management (AIM)
Manila, Philippines

Digital Transformation of the Supply Chain

Prof. Albert Tan joins the AIM faculty as an Associate Professor and Academic Program Director of the Online MBA program. He has a combined 32 years of industry practice and teaching experience in Australia, Singapore, China, Dubai, Indonesia, Malaysia, and Vietnam. Most recently, he was a visiting professor at NUS-Singapore, MIT SCALE Network, Wollongong-Dubai, Curtin-Australia as well as in Indonesia and Vietnam. Prof. Tan was conferred a Bachelor in Information Technology in 1996 by the University of Southern Queensland. He also obtained a Master

in Business Studies from the University of Ireland in 1998 and a PhD in Operations Management from Nanyang Technological University in 2005. He is also certified Fellow in Production and Inventory Management (CPIM-F) from APICS.

Panel Sessions

Diversity and Inclusion Panel Sponsored by Ford Motor Company

March 6, 2023, Monday, Time: 8:00 – 9:45 pm – Online – Virtual Room 7

Panel Chair

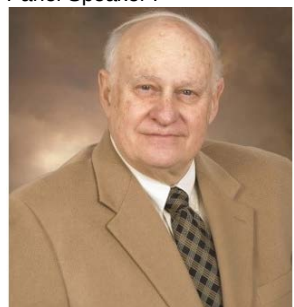


Dwi Agustina Kurniawati, M.Eng., Ph.D.
Associate Professor, Industrial Engineering Department
Former Head of Industrial Engineering Department
Head of Faculty Quality System Controller
Faculty of Science and Technology
UIN Sunan Kalijaga, Indonesia

Dwi Agustina Kurniawati, Ph.D. is an Associate Professor in Industrial Engineering, Faculty of Science and Engineering, Universitas Islam Negeri (UIN) Sunan Kalijaga, Indonesia. She finished her bachelor's degree in Industrial Engineering from Bandung Institute of Technology (ITB), Indonesia in 2003. Then she pursued her master's degree in Advanced Manufacturing Technology, Universiti Teknologi Malaysia (UTM) in 2006. She got Ph.D degree from Nanyang Technological University (NTU) in 2016, in Systems and Engineering Management, School of Mechanical and Aerospace Engineering, NTU, Singapore. She has published numerous papers, both in journals and proceedings (conferences). She also has reviewed lots of papers in Industrial Engineering area. Her current research is in supply chain, cross-dock warehouse, modelling system, operation research, scheduling and

special issue in halal supply chain. She has received many research grants in her research area. Her biography is included in Who's Who in the World year 2015 and 2018 and Who's Who in Science and Engineering year 2016 and 2017 by Marquis Publication, USA. She was the former head of Industrial Engineering Laboratory and former head of Industrial Engineering Department. Currently, she becomes the head of Quality System Controller in her faculty and the head of Optimization, Operation Research and Industrial Systems Research Group (ZORIS-RG). She also becomes the member of INFORMS, IEOM and IAENG.

Panel Speaker I



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

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical 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 Speaker II



Dr. Denni Kurniawan, D.Eng.
B.Eng. (ITB, Indonesia), M.Eng. (UTM, Malaysia), D.Eng. (Dongguk, Korea), P.Eng. (Indonesia)
Assistant Professor, Mechanical Engineering Programme Area, Faculty of Engineering
Programme Leader, Mechanical Engineering Programme Area, Faculty of Engineering
Universiti Teknologi Brunei
Brunei, Darussalam

Denni Kurniawan is Assistant Professor and currently the Head of Department of Mechanical Engineering, Universiti Teknologi Brunei, Brunei Darussalam. Previously, he was Senior Lecturer and Head of the Department of Mechanical Engineering, Curtin University Malaysia and was Senior Lecturer with Universiti Teknologi Malaysia. He obtained his Doctorate from Dongguk University (Korea), Masters from Universiti Teknologi Malaysia (Malaysia), and First Degree from Institut Teknologi Bandung (Indonesia). His expertise and interests include materials engineering (particularly composites and biomaterials) and manufacturing processes. He supervised and graduated some PhD and Masters students, as well as advised some Master's Projects and Undergraduate's Final Year Projects. He receives funding from the university, government, and industry. He holds a patent, actively publishes in journals, and regularly presents at international conferences, including as guest speaker. He was

Hitachi Research Fellow (attached to Tokushima University, Japan) and Visiting Lecturer in Dongguk University, Korea. He is Editor and Reviewer of some journals and conference proceedings as well as project proposals. He found, chaired, and hosted some international conferences in the fields of materials and manufacturing engineering. He is also open for collaboration in research and teaching.

Panel Speaker III

**Dr. Feliks P.S. Surbakti**

Associate Professor

Head of Industrial Statistics and Decision Support Laboratory

Atma Jaya Catholic University of Indonesia (AJCUI)

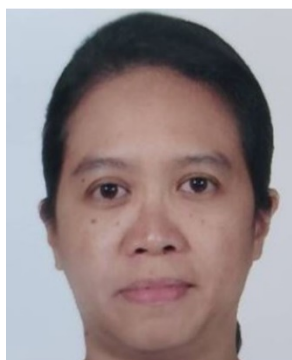
Jakarta, Indonesia

Feliks P.S. Surbakti has worked in academia for more than 18 years. He is Associate Professor and currently the Head of Industrial Statistics and Decision Support Laboratory, Atma Jaya Catholic University of Indonesia (AJCUI). Previously, he was Head of the Department of Industrial Engineering, Faculty of Engineering, AJCUI and associate consultant for several organisations. He obtained his Doctorate from The University of Queensland (Australia) in Information Systems Management, Masters from Bandung Institute of Technology (Indonesia) in Industrial Engineering and First Degree from Bandung Institute of Technology (Indonesia) in Industrial Engineering. His expertise and interests include effective data analytics use in organisations, business process management, and quality management. He supervised and graduated Undergraduate's Final Year Projects. He receives funding from the university and government. He holds a patent, actively publishes in journals, and regularly presents at webinar and international conferences. He is Editor and Reviewer of some journals and conference proceedings as well as project proposals.

Women in Industry and Academia (WIIA) Panel

March 7, 2023, Time: 2:00 – 3:45 pm – Room 2 (Onsite)

Panel Chair

**Dr. Michelle Adiwang**

Professor

Saint Louis University

Philippines

Panel Speaker I

**Siew Imm, Serene Ng**

Associate Professor

School of Business and Economics

Universiti Putra Malaysia

Selangor, Malaysia

Siew Imm Ng completed PhD in Management from University of Western Australia. She is currently an Associate Professor in the School of Business and Economics, University Putra Malaysia. She has industry experience in the areas of human resource and export management with internationalizing Malaysian companies. She teaches Principles of Management, Cross Cultural Management and Business Research Methods. So far, she has graduated more than 15 PhD students. She has authored and co-authored many articles in refereed and professional journals, including Tourism Management, International Marketing Review, Journal of Hospitality & Tourism Research, British Food Journal, Asia Pacific Journal of Marketing and Logistics, and Journal of Air Transport Management.

Panel Speaker II

**Adeline A. Pacia**

Vice Chancellor for Administration

University of the Philippines – Diliman QC

Philippines

Panel Speaker III



Maria Corazon de Guzman-Ocampo
Professor, Industrial Engineering Department
School of Engineering and Architecture (SEA)
Saint Louis University, Manila, Philippines

Eng. Maria Corazon Ocampo is a professor in the School of Engineering and Architecture (SEA)- Industrial Engineering Department for almost 28 years. She finished her Masteral Degree in Management Engineering at Saint Louis University and is currently pursuing her doctorate degree in Philosophy of Management.

She conducts action researches in various organizations here in Northern Luzon Philippines, helping owners to increase productivity through the use of Industrial Engineering tools and techniques. A consultant in Time Study, Operations Management and Productivity Improvement, she initiated 5S in the School of Engineering and Architecture, applying what she learned in her 3 years at Texas Instruments, Inc. as a Logistics Site Manager.

She is very experienced in the execution of iterative prototyping processes and brings real-world experience to the theoretical definition of the innovation process that will be implemented in any organization needing her expertise. She started creating prototypes with students in 2008 and will continue her product development projects that helped her students understand technopreneurship.

She is currently developing prototypes of her own and openly shares her experiences during this challenging times. Her expertise in Time and Motion Study, Logistics, Total Quality Management and Lean made her focused to conducted 5S seminars and 5S implementations in private and public organizations, advised graduate students 2 projects in 5S in Saint Louis University graduate school, even trained companies inventory management and has been training people on leadership for the past 20 years.

She is also the founder of SISIDS, a solution provider and start-up which was created to help solve problems in the area of health, wellness, environmental issues, logistics, productivity improvement and others.

Panel Speaker IV



Rita Nicodemus, MSc
Research, Innovation and Technology Advocate
Safe City Innovator
Founder, ENTEGRA Systems
Singapore

Global Engineering Education Panel

March 7, 2023, 4:00 – 5:45 pm – Room 1 (Onsite)

Panel Chair



Engr Lourdes P. Lasian, PIE
Chairperson, Department of Industrial Engineering
Adamson University, Manila, Philippines

Eng Lourdes Lasian is an Industrial Engineering Professor at Adamson University, Manila, Philippines. Engr Lasian holds a Bachelor of Science degree in Industrial Engineering from University of Sto Tomas and finished her Master's degree in Business Administration from San Sebastian College-Recoletos Manila. She has 21 years of combined work experience both from Manufacturing and Service Industry. Her expertise is the field of Process Improvement and Operations Management. She is also a freelance consultant that assist companies in their initiatives for International Certification in Quality Management System. She has taught courses in management, feasibility and other professional course. She has published and presented research papers both local and international. She is formerly the Chairperson of Adamson University.

Panel Speaker I



Engr. Nestor Rubio Ong
Full-Time Faculty Member
Deputy Director of the University of Santo Tomas' Office of QS/THE Rankings
Philippines

Engr. Nestor Rubio Ong is a full-time faculty member and is presently the Deputy Director of the University of Santo Tomas' Office of QS/THE Rankings. Previously, he served as Assistant Director of the University of Santo Tomas' Quality Management Office, chair of the IE Department and dean of the College of Engineering of Lyceum of the Philippines-Laguna, and as senior manager of INTEL Philippines. Engr. Ong is a Professional Industrial Engineer and an ASEAN Engineer. He was the very first to join the ASEAN Engineer registry in 2012 from the UST Faculty of Engineering. The recognition is given to engineers in the Southeast Asian region who have achieved "operational excellence in the field of engineering." With his more than two decades of accomplishment-laden experience in several multinational manufacturing companies by assuming various senior and technical management positions, Engr. Ong successfully turned around every manufacturing arena into delivering the necessary factory systems to

enable World Class Manufacturing. His excellent leadership efforts won for him several recognitions/awards. One of his notable achievements, when he was named as INTEL Key Employee in Year 2000 in recognition of his valuable services and contributions to INTEL's operation. This is Intel's highest recognition award given to a deserving and consistently rated outstanding employee. INTEL Philippines was the nation's leading exporter for many years past.

With his strong background in various key areas of expertise, he is the prime mover in the successful ISO Certification of UST. He is being considered to be a high caliber consultant that can be tapped in both the industry and academia. Moreover, Engr. Ong crafted a framework of the UST's EQMS (Educational Quality Management System) for excellence which became his research paper as accepted in two international conferences in the same year entitled, "An Integrated Framework: Unifying Diverse Perspectives in EQMS" and turned out in reality when UST earned the distinction of being the first and only university in the Philippines with the four-star rating in QS Stars Rating awarded in 2015 and 2017. In the third review cycle of its Quacquarelli-Symonds (QS) Stars application, the University of Santo Tomas secured the coveted Five Stars rating, the first in the Philippines, the penultimate rank in the six-tier system adopted by QS. Moreover, four of his research papers have been accepted into International Journal of Advanced Science and Technology, which is a Q3 Journal under SCIMAGO-SCOPUS Rankings.

No stranger to accreditation and rankings initiatives as well as his expertise and specialization in the discipline of Industrial Engineering, Engr. Ong is frequently sought and invited as resource speaker, expert speaker and keynote speaker. He has shared his expertise in various universities and institutions such as the Commission on Higher Education, Network of CALABARZON Educational Institutions, Inc. (NOCEI), Commission on Higher Education (CHED), ASIAN Institute of Management (AIM)-CHED-GALP (Global Academic Leadership Program), Philippine Normal University (PNU), University of the Philippines – Centre International de Formation des Autorités et Leaders Philippines (UP-CIFAL Philippines), Bukidnon State University (BukSU), Northwest Samar State University, University of Perpetual Help System Dalta, and Lyceum of the Philippines University (LPU) – Cavite, Batangas, Laguna, Davao, Manila and Makati, the latter of which is rated as a QS-Star institution. Engr. Ong is currently the only Filipino sitting as a member of the International Academic Advisory Committee of Quacquarelli-Symonds (QS) since 2015. Simultaneously, he has been chosen as the chair of the parallel sessions committee under the different tracks in every QS International Conference and Exhibit annual events. Presently, he is appointed as the sole Filipino by the AppliedHE Rankings Advisory Board (RAB).

Panel Speaker II

James Louie R. Meneses, PhD, CIE, AAE
Assistant Professor, Researcher, and Consultant
Philippines



Dr. James Louie Meneses is an experienced professor, consultant, Industrial engineer, and researcher. As a professor, he teaches industrial engineering courses, including research, operations management, operations research, feasibility studies, and ergonomics. As a consultant, he works in industrial engineering designs, management, quality management systems, and data analysis. In his early professional life, he worked as a Quality control engineer and Management trainee in a Manufacturing company. Currently, he is working as a full-time professor and a research coordinator at Manuel S. Enverga University Foundation, Philippines. His role as a consultant is mainly related to the quality management system, quality and system improvement. He works closely

with researchers in data analysis, applying 1st- and 2nd-generation statistics (Structural Equation Modeling). His work as a researcher is mainly associated with using the lean six-sigma methodology, ergonomics design, and Partial Least Square Structural Equation Modeling (PLS-SEM). He holds a Doctor of Philosophy in Management at Lyceum of the Philippines Laguna and earned his Master in Engineering majoring in Industrial Engineering at Adamson University. He presented his work in several research fora, where he has been awarded best presenter and research paper.

Panel Speaker III



Engr. Alexa Ray Fernando
Senior Research Management and Publication Director
Immediate Past Dean of the College of Engineering
National University, Philippines
Immediate Past First Vice President and
Secretary of the Philippine Association of Engineering Schools, Inc.

Alexa is the immediate past First Vice President and Secretary of the Philippine Association of Engineering Schools, Inc. He is the immediate past Dean of the College of Engineering of National University, Philippines, and is currently the Senior Research Management and Publication Director of the same institution. Alexa finished his bachelor's and master's degree in engineering specializing in Electronics Engineering at Technological Institute of the

Philippines. He has been in the academe since 2007, where he found his passion for engineering education. He is finishing his Ph.D. in Engineering Education at Universiti Teknologi Malaysia (UTM), where he was awarded with the Ambassadorial Scholarship Grant. He is developing an integrative and innovative human-centric engineering education framework that aims to prepare future engineers to face the challenges of Industry 5.0 and Society 5.0. His research interest also includes engineering epistemologies, teaching, learning and assessment, and sustainability in engineering education. One of his recently finished works is titled "unpacking engineering students' challenges and strategies in a fully online learning space: the mediating role of teachers," which was published in a top-tier journal.

Panel Speaker IV



Dr. Lianna Wijaya
Management Department, BINUS Online Learning
Bina Nusantara University, Jakarta, Indonesia

Dr. Lianna Wijaya is a faculty member in Management Department, BINUS Online Learning, Bina Nusantara University. She earned Diploma Degree in Tourism Management at Pelita Harapan Tourism Academy, a bachelor's degree in Business Management at Bina Nusantara University, and a master's degree in Information Systems at Bina Nusantara University. She started her career as a practitioner in the hospitality and tourism industry for 15 years. Currently, she earned Doctoral Degree in Service Management at Trisakti University. Her research interest includes management, marketing, tourism, hospitality artificial intelligence, the internet of things, and education. She is also a peer reviewer in a national journal Sinta 3 Jurnal Bisnis dan Manajemen as well as a peer reviewer in Emerald Group Publishing – International Journal of Innovation

Science. She has also received various academic achievements, awards, and recognitions such as the best lecturer at Bina Nusantara University (Rector's Award), best paper awards at several international conferences, and research collaboration from both Indonesia and abroad institutions.

Lean Six Sigma Panel

March 7, 2023, Time: 4:00 – 5:45 pm – Room 2 (Onsite)

Panel Chair



Dr. Felix C. Veroya, CIE, AAE, CLF, CKF, MBB, CSM, DHum

Certified Lean Facilitator, Lean Six Sigma Master Black Belt and Certified Sprint Master

Founder & CEO, Ask Lex PH Academy and Co – Founder & Head of Strategic Partnerships, Farm Box, Manila, Philippines

Felix has a total of 11 years working experience in helping individuals and organizations to build and utilized competencies in Continuous Improvement, Innovation and Analytics across the fields of Academics, Logistics, Supply/Chain, Manufacturing, Training and Consulting for SMEs up to multinational corporations. He has proven skills relating to business administration, people management, research, statistical analysis, workshop facilitation and consulting. He was able to complete and coach projects utilizing proven tools and methodologies such as DMAIC (Six Sigma), SCORE (Lean), Design Thinking (Innovation) and self-initiated improvement frameworks on

OEE/Capacity Improvement, Preventive Maintenance Time Reduction, Mistake Proofing, Quick Engineering Solutions, Idea Management, etc. He also published an international book entitled Introduction to Statistical Process Control: A Problem Solving Process Approach (ISBN: 978-87-403-1849-4) and Best Practices in Managing Virtual Teams under Bookboon Ltd. Under a Denmark based e-book publisher and an Amazon published book entitled Creativity Tools: Develop Creative Solutions to Problems and Opportunities (ISBN: 978-621-8114-38-8). He is a Professional Industrial Engineer, an Associate ASEAN Engineer, a Certified Lean/Kaizen Facilitator, a Certified Lean Six Sigma Master Black Belt, a Certified Design Sprint Master and a Chartered Business Advisor. Felix also leads international initiatives to the Philippines as Chairman of the International Association of Innovation Professionals (IAOIP) and National President / Country Manager for Association for Manufacturing Excellence (AME). He has been elected as a Board Director of the Lean (Operational Excellence) Division of the Institute of Industrial & Systems Engineers (IISE). During the Pandemic, he founded an online community for Filipino Industrial Engineers called PINOY IEs to help the community to have a platform to communicate and collaborate things about the profession. With all the initiatives he designed and deployed to the Industrial Engineering community here in the Philippines, he has been conferred with an Honorary Doctoral Degree (Honoris Causa) by the Asian Seminary Leadership and University of Oklahoma. He won the Asia CEO Awards 2020 Young Leader of the Year and Entrepreneur of the Year Circle of Excellence Awards and this Q1 was awarded Outstanding Eduprenuer of the Year by the World Education Leaders Summit and Awards and ASEAN Start Up Award Founder of the Year Finalist for the Philippines and recently awarded with the Asia CEO Awards 2021 Entrepreneur of the Year Circle of Excellence Finalists and Top 100 Filipinos on LinkedIn. Recently, he was awarded as one of the Top 100 Filipinos in LinkedIn and Outstanding International Trainer by the International Leaders and Achievers Award 2022.

Panel Speaker I



Innah Dominique Puertollano

Senior Manager, Continuous Improvement

Dexcom, Manila, Philippines

Innah is an experienced continuous improvement practitioner and advocate. She is currently the Senior Manager for Continuous Improvement at Dexcom Philippines where she leads the Lean Six Sigma Training and Certification program, partners with business leaders in their respective process improvement initiatives and drives other programs to promote the culture of good change in the company. With over eight years of experience, she has implemented various initiatives that resulted to ~P100M in cost savings. She also serves as a Program Trainer in Elevate Six Sigma—one of the top LSS training providers in the Philippines—where she has trained and certified more than 300 LSS practitioners. Innah's passion for Lean Six Sigma started when she was in third year college. And naturally, she pursued her certification relatively early and got her Lean Six Sigma Black Belt at the age of 23. In 2014, she placed 5th in the Industrial Engineering Certification Exam organized by the Industrial Engineering

Certification Board of the Philippines. She holds a degree in Bachelor of Science in Industrial Engineering from Mapua University.

Panel Speaker II



Jonizon C. Paez

Past Director – Slider Manufacturing and NPI Engineering

Sta. Rosa City, Laguna, Philippines

Panel Speaker III

**Kaycelyn Cedo Valenzuela**

San Vicente Sto. Tomas, Batangas, 4234, Philippines

Aug'22 – Present TelePhilippines (TPPH) – Process Excellence and Transformation Sr Manager
TPPH Mandaluyong, Philippines (EDSA Greenfield) – WAHA USA

Panel Speaker IV

**Engr. Anne Jonai Pascual**

Certified Lean Six Sigma Green Belt, CLSSGB

Project Management Fundamental Certified, PMFC

Lean Management and Innovation Senior Expert

Bayer Business Services Philippines, Taguig City

Global Supply Chain and Logistics Panel

March 8, 2023, 4:00 – 5:45 pm – Room 1 (Onsite)

Panel Chair

**Dr. Josefa Angelie Revilla**

Chairperson

Department of Industrial Engineering

College of Engineering and Agro-Industrial Technology

University of the Philippines Los Baños

Laguna 4030 Philippines

Panel Speaker I

**Professor Jose Arturo Garza-Reyes, Ph.D.**

Professor of Operations Management

Head of the Centre for Supply Chain Improvement

College of Business, Law and Social Sciences

Derby Management School

University of Derby, Derby, United Kingdom (UK)

Prof. Jose Arturo Garza-Reyes is a Professor of Operations Management and Head of the Centre for Supply Chain Improvement at the College of Business, Law and Social Sciences, University of Derby, UK. He is actively involved in industrial projects where he combines his knowledge, expertise and industrial experience in operations management to help organisations achieve excellence in their internal functions and supply chains. He has also led and managed international research projects funded by the British Academy, British Council and Mexico's National Council of Science and Technology (CONACYT). As a leading academic, he has published extensively in leading scientific journals, including the Int. Journal of Production Research, Int. Journal of Production Economics, Journal

of Cleaner Production, Supply Chain Management: An International Journal, TQM & Business Excellence, Journal of Manufacturing Technology Management, etc., and a number of international conferences. Professor Garza-Reyes has also published four books in the areas of operations management and innovation, manufacturing performance measurement and quality management systems. He is Co-founder and current Editor of the Int. Journal of Supply Chain and Operations Resilience (Inderscience) and will lead the launch of the official IEOM's journal Int. Journal of Industrial Engineering and Operations Management as its Editor-in-Chief. Professor Garza-Reyes has also led and guest edited special issues for Production Planning & Control, Supply Chain Management: An International Journal, Int. Journal of Lean Six Sigma, Int. Journal of Lean Enterprise Research, Int. Journal of Engineering Management and Economics, and Int. Journal of Engineering and Technology Innovation. Areas of expertise and interest for Professor Garza-Reyes include general aspects of operations and manufacturing management, business excellence, quality improvement, and performance measurement. He is a Chartered Engineer (CEng), a certified Six Sigma-Green Belt, and has over eight years of industrial experience working as Production Manager, Production Engineer and Operations Manager for several international and local companies in both the UK and Mexico. He is also a fellow member of the Higher Education Academy (FHEA) and a member of the Institution of Engineering Technology (MIET).

Panel Speaker II

**Dr. Aldy Gunawan**

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

Aldy Gunawan is an Assistant Professor of Computer Science (Practice) at the Singapore Management University. He received his Ph.D degree in Industrial and Systems Engineering. His main research interests include operations research, algorithm design, and data analytics that relate to metaheuristics, algorithm configuration, design of experiments, combinatorial optimization, and automated planning/scheduling. His research outputs have been published at top Operations Research conferences and journals in Operations Research such as European Journal of Operational Research, Computers and Operations Research, Computers and Industrial Engineering, and Applied Soft Computing. He has been serving as a committee member of the Operational Research Society of Singapore.

Panel Speaker III

**Manuel Joey Adriatico**

Supply Chain & Manufacturing Executive
Calabarzon, Philippines

Panel Speaker IV

**Dr. Ir. Yuary Farradia**

Lecturer in Management (Marketing) Department
Faculty of Business, Economics and Social Development
Universiti Malaysia Terengganu, Malaysia

Dr. Ir. Yuary Farradia, currently is a Lecturer in Management (Marketing) department at the Faculty of Business, Economics and Social Development – Universiti Malaysia Terengganu. Her main background is on Green Supply Chain Management, Marketing and Management. Her publication within the last five years are about Green Supply Chain Management, Green Marketing, Green Management, Sustainability, Environment Sustainability, Ecotourism, Consumer Purchase Decision up to Marketing Strategies. Her International Research in 2023 are on Circular Economy and Smart Villages Development. Prior to join Universiti Malaysia Terengganu, in 2020, she was a Vice Dean of Human Resource and Finance in the Faculty of Economics and Business Universitas Pakuan. Dr. Ir. Yuary Farradia is also a Management practitioner. Currently she is also a professional Management Consultant, Trainer

and Internal Auditor for Operation. She had more than 15 years working experiences mostly in the Multinational Companies in Indonesia with the position as Business Analyse, Branch and Area Manager, Area Director and Managing Director. Dr. Ir. Yuary Farradia, graduated from Universitas Padjadjaran, Bandung Indonesia majoring in Fisheries. She pursued her Master of Natural Resources Economics from Universiti Pertanian Malaysia (UPM). She received her Ph.D from the Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia.

Human Factors and Ergonomics Panel

March 9, 2023, Time: 8:00 – 9:45 am – Room 2 (Onsite)

Panel Chair

**Dr. Ma. Janice J. Gumasing**

Associate Professor
School of Industrial Engineering and Engineering Management
Mapua University
Manila, Philippines

Dr. Ma. Janice J. Gumasing is an Associate Professor at the School of Industrial Engineering and Engineering Management at Mapua University. She has earned her B.S. degree in Industrial Engineering, Master of Engineering degree in Industrial Engineering, and a Ph.D. in Industrial Engineering from Mapua University. She is a Professional Industrial Engineer (PIE) with over 15 years of experience. She is also a professional consultant for Kaizen Management Systems, Inc. She has taught ergonomics and human factors, cognitive engineering, methods engineering, occupational safety and health, and lean manufacturing courses. She has numerous international research publications in human factors and ergonomics. She was awarded the Young Researcher Award and the Woman in Industry and Academia Award at the International Conference on Industrial Engineering and Operations Management (IEOM) in 2020 and 2019, respectively.

PANEL SPEAKER 1:

**Dr. Rex Aurelius C. Robielos**

Operations Research Manager at Analog Devices

Former Dean of the School of Industrial Engineering and Engineering Management at Mapua University, Manila, Philippines

Dr. Rex Aurelius C. Robielos is the Operations Research Manager at Analog Devices. He is the former dean of the School of Industrial Engineering and Engineering Management at Mapua University. Before joining Mapua, he was Section Manager of Operations Research Group, Analog Devices General Trias. He has a BS in Applied Mathematics from the University of the Philippines Los Baños, and a Diploma and MS in Industrial Engineering from the University of the Philippines Diliman. He earned his Ph.D in Industrial Management at National Taiwan University of Science and Technology in Taiwan. He is the current Secretary of Human Factors and Ergonomics Society of the Philippines and Director of the Philippine Institute of Industrial Engineers and Operations Research Society of the Philippines.

PANEL SPEAKER 2:

**Dr. Ardivin Kester S. Ong**

Faculty Member, School of Industrial Engineering and Engineering Management

Mapua University, Manila, Philippines

Dr. Ardivin Kester S. Ong is a faculty member of the School of Industrial Engineering and Engineering Management, Mapua University Manila, Philippines. He holds a Bachelor's degree in Chemistry and a Master's in Engineering Management obtained from Mapua University. He was an exchange student for his graduate research, which he conducted at the Industrial and Systems Engineering Department, Chung Yuan Christian University (CYCU), Taiwan ROC. During his stint at CYCU, he published an ISI-abstracted and Scopus-indexed paper on supply chain management. He has completed all requirements for his Ph.D. in Industrial Engineering at the School of Industrial and Engineering Management, Mapua University with a general weighted average of 1.00/1.00. He has so far published at least 40 SCI/SSCI-abstracted papers on reputable journals, such as Foods (MDPI), Sustainability

(MDPI), Nuclear Engineering and Technology (Elsevier), and International Journal of Disaster Risk Reduction (Elsevier) to name a few. His research interests are on supply chain optimization, marketing strategies, human factors and engineering focusing on consumer behavior, and data mining and analytics applications.

PANEL SPEAKER 3:

**Dr. Yoshiki Kurata**

Department of Industrial Engineering, Faculty of Engineering

University of Santo Tomas, Philippines

Dr. Yoshiki B. Kurata is a Certified Industrial Engineer (CIE) awarded by the Philippine Institute of Industrial Engineers (PIIE) and an Associate ASEAN Engineer (AAE) awarded by the ASEAN Federation of Engineering Organizations. He earned his B.S. in Industrial Engineering from the University of Santo Tomas (2013), Master of Science in Industrial Engineering from the University of the Philippines Diliman (2016), and Doctor of Philosophy in Industrial Engineering (Ph.D. IE) at Mapua University (2022), specializing in Cognitive Ergonomics and Macroergonomics in Disaster Risk Management. At present, he is the national president of the Philippine Institute of Industrial Engineers – Young Engineers Section (PIIE-YES) and the International Relations and Linkages Coordinator of the Philippine Technological Council – Young Engineers Section (PTC-YES). Also, he is part of the

Scientific Advisory Board in the Human Factors in Management and Leadership track of the International Conference on Applied Human Factors and Ergonomics (AHFE) and the Human Factors and Ergonomics Track Chair in the International Conference on Industrial Engineering and Operations Management (IEOM) for the Asia Pacific Region. He has published several journals and conference papers presented at local and international conferences in the fields of human factors and ergonomics, production engineering, disaster risk analysis, and service system operations. His research interests include cognitive ergonomics, macroergonomics, disaster risk, and accident analysis, exergaming and human performance, musculoskeletal disorders, and service science.

PANEL SPEAKER 4:

**Engr. Klint Allen Marinas**

Assistant Professor, School of Industrial Engineering and Engineering Management

Mapua University

Manila, Philippines

Klint Allen A. Mariñas, CIE, MSIE is an. He is currently a Ph.D. Candidate at the Industrial and Systems Engineering Department, Chung Yuan Christian University in Taiwan. He earned his bachelor's degree in Industrial Engineering at Adamson University, Manila, Philippines, and his master's in Industrial Engineering degree at Mapua University, Manila, Philippines. He previously worked as a process engineer in a plastic manufacturing company in the Philippines for three years. Eventually, he took his graduate studies focusing on production planning, human factors, ergonomics, and quality engineering. He is currently under the CIM and Smart Manufacturing laboratory working on cognitive ergonomics, specifically eye-tracking studies.

Industry 4.0 Panel

March 9, 2023, 2:00 – 3:45 pm – Room 2 (Onsite)

Panel Chair

Regine Tejada
Assistant Professor
University of the Philippines – Diliman
Quezon City, Philippines

Regine A. Tejada is an Assistant Professor of the Department of Industrial Engineering and Operations Research at the College of Engineering, University of the Philippines Diliman, Philippines. She earned M.S. in Industrial Engineering and B.S. in Industrial Engineering from the University of the Philippines Diliman. Her research interests include production systems, information systems, and assignment models. She has taught courses on facilities systems design, systems and procedures, industrial materials and processes, and production systems.

Panel Speaker I

Engr. Joshua I. L. Palisoc, CIE, AAE, CLSSGB, MSIE, MSDS
Chief Operations Officer
Ask Lex PH Academy
Manila, Philippines

Panel Speaker II

Ahad Ali, Ph.D.
Associate Professor
Director, Bachelor of Science in Industrial Engineering (BSIE)
Director, Master of Science in Industrial Engineering (MSIE)
Director, Graduate Certificate in Lean Six Sigma
Director, Smart Manufacturing and Lean Systems Research Group
Coordinator, Siemens Electro-Matic Industrial Engineering Lab
A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University
Southfield, Michigan, MI 48075, USA

Panel Speaker III

Engr. Annabelle B. Magsino
MSIEM, LPT, CLYSSYB, PMFC, SO2
Program Head - Industrial Engineering Department
College of Engineering and Architecture
University of Batangas, Lipa Campus

Submissions Received from Countries and Territories

1. Australia	12. France	23. Kuwait	34. Russia	45. Uganda
2. Austria	13. Ghana	24. Malaysia	35. Rwanda	46. UAE
3. Bangladesh	14. Greece	25. Mexico	36. Saudi Arabia	47. UK
4. Brazil	15. India	26. Morocco	37. Singapore	48. United States
5. Canada	16. Indonesia	27. Nigeria	38. South Africa	49. Vietnam
6. Chile	17. Iran	28. Oman	39. South Korea	50. Zimbabwe
7. Colombia	18. Israel	29. Pakistan	40. Sri Lanka	
8. Costa Rica	19. Italy	30. Palestinian	41. Taiwan	
9. Egypt	20. Japan	31. Peru	42. Tanzania	
10. Ethiopia	21. Jordan	32. Philippines	43. Thailand	
11. Finland	22. Kenya	33. Qatar	44. Turkey	

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Parallel Sessions

All Times are in Manila Time

Monday, March 6, 2023 (Online)

	Virtual Room 1	Virtual Room 2	Virtual Room 3	Virtual Room 4	Virtual Room 5	Virtual Room 6	Virtual Room 7
8:00 – 9:45 am	Undergraduate Paper Competition	Smart Systems	SCM	Sustainable Manufacturing	Operations Management	Manufacturing	Business Management
10:00 – 11:45 am	Undergraduate Paper Competition	SCM and HF Competitions	SCM	Business Management	Operations Management	Business Management	Engineering Management
12:00 – 1:45 pm	Undergraduate Paper Competition	Simulation and Senior Design-FYP Competitions	SCM	Lean	Operations Management	Business Management	Engineering Analysis
2:00 – 3:45 pm	Undergraduate Paper Competition	Supply Chain and Logistics Competition	Logistics	Business Management	Project Management	Operations Management	Business Management
4:00 – 5:45 pm	Undergraduate Research Competition	Master Thesis Competition	Engineering Management	Business Management	Operations Management	ML and Business Analytics	Industry 4.0
6:00 – 7:45 pm	Undergraduate Research Competition	Graduate Student Paper Competition	Business Management	Modeling and Simulation	Systems/Service Engineering	Occupational Safety and Health (OSH)	Sustainability Green Systems
8:00 – 9:45 pm	Undergraduate Research Competition	Diversity and Inclusion Panel	Lean Six Sigma and Doctoral Competitions	Technical Track			

Tuesday, March 7, 2023

	Room 1 - Ballroom Onsite	Room 2 Onsite	Room 3 Onsite	Room 4 Onsite	Room 5 Onsite	Room 6 Virtual
8:00	Plenary - Global Business Management	HF and SCM Competitions	Undergraduate Paper Competition	Operations Management	Lean Six Sigma	Teaching and Learning
9:30	Morning Networking Coffee Break					
10:00	Welcome Address - Br. Bernard S. Oca FSC , President, De La Salle University – Ballroom					
10:20	Keynote I (Day 1 Opening Keynote): Prof. Jose Arturo Garza-Reyes , Professor of Operations Management and Head of the Centre for Supply Chain Improvement, College of Business, Law and Social Sciences, University of Derby, UK					
11:00	Keynote II: Mynard Bryan R. Mojica , Deputy Director, Policy Development Group, Financial Inclusion Office, Bangko Sentral ng Pilipinas, Calabarzon, Philippines - Ballroom					
11:40	Keynote III: Jorey Guzman , Regional Manager, Factory Automation South East Asia, Siemens, Singapore					
12:20	Keynote IV: Prof. Ts. Dr. Massila Kamalrudin , Vice Chancellor, Universiti Teknikal Malaysia Melaka (UTeM), Malacca, Malaysia					
1:00	Lunch Break – Buffet Lunch Provided in Hilton Manila					
2:00	Plenary - Global Engineering Education I	Panel – Women in Industry and Academia	Graduate Student Paper Competition	Optimization	Undergraduate Research Competition	Systems and Operations
3:45	Afternoon Networking Coffee Break					
4:00	Panel - Global Engineering Education	Panel - Lean Six Sigma	Doctoral, Masters and Senior Design Competitions	Supply Chain Management	Industry 4.0 and Sustainability	Quality & Technology Management

Wednesday, March 8, 2023

	Room 1 - Ballroom Onsite	Room 2 Onsite	Room 3 Onsite	Room 4 Onsite	Room 6 Virtual
8:00	Plenary – Industry Solutions and Industry 4.0 I	Industry Solutions Panel	Operations Management	Innovation	Lean
9:30	Morning Networking Coffee Break				
10:00	Student Chapter Activities Presentations				
10:20	Keynote V (Day 2 Opening Keynote): Professor Charles Mbohwa, Ph.D. , Professor at University of Johannesburg, South Africa and Past Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe				
11:00	Keynote VI: Jeremy Lim , Business Process Transformation Vice-President, Robotic Process Automation (RPA) and Workflow Program Lead, Robinsons Bank Corporation, Manila, Philippines				
11:40	Keynote VII: Dr. Marcelo Ang , Professor of Control & Mechatronics, National University of Singapore				
12:20	Keynote VIII: Dr. Fitra Lestari , Vice Dean for Academic Affairs in Faculty of Science and Technology and Professor in Industrial Engineering Department, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia – IEOM Student Chapter UIN SUSKA Riau Presentation				
1:00	Lunch Break – Buffet Lunch Provided in Hilton Manila				
2:00	Plenary - Industry Solutions II	Business Management	Sustainability	Machine Learning	Operations Management/Lean
3:45	Afternoon Networking Coffee Break				
4:00 pm	Panel - Global Supply Chain	FlexSim Training	Ergonomics and Health	Business Analysis	Case Studies

Thursday, March 9, 2023

	Room 1 - Ballroom Onsite	Room 2 Onsite	Room 3 Onsite	Room 4 Onsite	Room 6 Virtual
8:00	Human Factors and Ergonomic Panel	Energy	Case Studies	Business Management	Operations Excellence
9:30	Morning Networking Coffee Break				
10:00	Student Chapter Activities Presentation				
10:20	Keynote IX (Day 3 Opening Keynote): Joyce Ramos , Senior Vice President, Head of Country and Business Development, LF Logistics Philippines, Manila, Philippines				
11:00	Keynote X: Dr. Rosnani Ginting , Head of Graduate Program of Industrial Engineering, Universitas Sumatera Utara, Indonesia				
11:40	Keynote XI: Dominic Ligot , Founder and Chief Technology Officer, CirroLytx, Manila, Philippines				
12:20	Keynote XII: Dr. Mohammad T. Khasawneh , Professor & Chair, State University of New York at Binghamton, New York, USA				
1:00	Lunch Break – Buffet Lunch Provided in Hilton Manila				
2:00	Plenary - Global Supply Chain and Logistics I	Industry 4.0 Panel	OM	Supply Chain Management	Project Management
3:45	Afternoon Networking Coffee Break				
4:00	Plenary - Global Supply Chain and Logistics II	Operations Excellence	Industry 4.0	Logistics	Sustainability and Analytics

Awards Dinner - Buffet

7:00 – 10:00 pm, March 9, 2023 – Ballroom Hilton

March 6, 2023 (Monday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, MONDAY
Undergraduate Student Paper Competition
Virtual Room 1

Session Chair: Judging Committee Chair

ID 92 A Logistic Regression Model to Predict the Induction of Professional Baseball Players into the Hall of Fame

Jesús Adrián Betancourt Ferreiro, Daniela Chaveznava Soto, Sofía Juárez Garza and Debanie Alejandra García Bustos, Undergraduate Student Department of Computer and Industrial Engineering, Universidad de Monterrey, San Pedro Garza García, NL 66238, México
 Fernando González-Aleu, Associate Professor and Researcher, Department of Computer and Industrial Engineering, Universidad de Monterrey San Pedro Garza García, NL 66238, México
 Jesús Vázquez-Hernández, Professor, Advisor, and Researcher, Department of Master's in Engineering Management, Instituto Tecnológico y de Estudios Superiores de Monterrey, San Pedro Garza García, NL 66238, México

ID 427 A Sustainable Supplier Selection Adapting Triple Bottom Line Framework for The Construction Industry using Multi-Criteria Decision-Making

Aubrey A. Angeles, Aprile C. Ilano, Darwyn P. Ong, Vince B. Reoyan and Gabriel C. Bucu, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

ID 513 An Application of the Analytic Hierarchy Process (AHP) in Measuring the Service Quality of Telemedicine in the Philippines

Cez Ariana L. Camon, Micah Therese A. Diaz, Erika Therese P. Esguerra, and Faith Anne J. Taguba, Undergraduate Student, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila 1008, Philippines
 Engr. Gabriel C. Bucu, CIE, Assoc. ASEAN Eng, Professor of Industrial Engineering, Faculty of Engineering, Department of Industrial Engineering University of Santo Tomas, España Boulevard, Sampaloc, Manila 1008, Philippines

ID 498 Analysis of Customers' Expectations and Perceptions on the EDSA Bus Carousel through Factor Analysis and Analytical Hierarchy Process

Reina Stefanie H. Aguilar, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, Philippines
 Sofia Jeuel V. Alcoran, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines
 Alyzza Bianca G. Lopez, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines
 Mardi Pauleann V. Taguines, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, Philippines
 Gabriel C. Bucu, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

ID 330 Antecedents of Ride-Hailing Service Customer Satisfaction During New Normal Era Using the PLS-SEM Method

Delinda Amarajaya, Theodora Rinda Hernawati and Adji Candra Kurniawan, Department of Logistic Engineering, Universitas Pertamina Jakarta, Indonesia

ID 335 Bulk Warehouse Layout Design Analysis Using the Dedicated Storage Method (Case Study: Pt Krakatau Jasa Logistics)

Helshy Azzahra Nur El Islami, Logistics Engineering, Pertamina University, Jakarta, Indonesia
 Resista Vikaliana, Lecturer in Logistics Engineering, Faculty of Industrial Technology, Universitas Pertamina

ID 421 E'Teacher Digitalization Supports Graduate Competence in Digital Economy

Lusy Tunik Muharlisiani, Department of Teacher Professional Education Universitas Wijaya Kusuma Surabaya, Indonesia
 Pratiwi Dwi Karjati, Department of Economic, Universitas Wijaya Kusuma Surabaya, Indonesia
 Siti Bariroh, Department of Educational Administration, Universitas Gresik.
 Nugrahini Susantinah Wisnujati and Ristani Widya Inti, Department of Agribisnis Universitas Wijaya Kusuma Surabaya, Indonesia
 Dwie Retna Suryaningsih, Department of Agrotechnology Universitas Wijaya Kusuma Surabaya,
 Noviana Desiningrum and Leni Yuliana Primary, Teacher Education Department Universitas Wijaya Kusuma Surabaya, Indonesia
 Amiruddin Hadi Wibowo, Department of English Education Universitas Wijaya Kusuma Surabaya, Indonesia
 Wiempy Wijaya and Thessalonica Leonny, Student English Education in Universitas Wijaya Kusuma Surabaya, Indonesia

ID 363 Measurement of Software Quality Using the ISO 9126 Model on the Academic System of Jenderal Achmad Yani University

Fajar Ramadhan, 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
 Herdi Ashaury, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia

8:00 – 9:45 am, MONDAY
Smart Systems
Virtual Room 2

Session Chair: Niamat Ullah Ibne Hossain, Arkansas State University, State University, AR 72467, USA

ID 13 Using Advanced Metering Infrastructure Data to Detect and Improve Customer Voltage Quality Issues

Niamat Ullah Ibne Hossain, Alexandr M. Sokolov, Scott Karbon and Brian Merrill, Engineering Management and Construction Management, College of Engineering and Computer Science, Arkansas State University, State University, AR 72467, USA

ID 16 Development of an Inventory Management Program for Warehouse Storage of Raw Materials in a Continuous Chemical Manufacturing System to Prevent Production Deficiencies

Niamat Ullah Ibne Hossain, Alexandr M. Sokolov, Hannah V. Turner and Brian Merrill, Arkansas State University, Engineering Management and Construction Management, College of Engineering and Computer Science Arkansas State University, State University, AR 72467, USA

ID 146 Impacts of Industry 4.0 on Smart Manufacturing

Arvin Shadravan and Hamid R. Parsaei, Wm Michael Barnes '64 Department of Industrial & Systems Engineering, Texas A&M University, College Station, Texas, USA

ID 287 How does Self-Discrepancy Influences the Creation of Virtual Fashion Avatar in Digital Fashion?

Christabel Annora Paramita Parung, Brian Kurniawan Jaya, Dian Prianka and Viviany Viviany, Faculty of Creative Industries, University of Surabaya

Surabaya, Indonesia

ID 373 Oil Palm Smallholder SMEs Business Model Innovation: A Review

Jajang Supriatna, Post Doctoral Student, Economy and Business Science, Faculty of Economy and Business, Mercu Buana University, Jakarta, Indonesia
 Djumarno, Ahmad Badawy Saluy and Deden Kurniawan, Economy and Business Science, Faculty of Economy and Business, Mercu Buana University, Jakarta, Indonesia

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

Session Chair: Marcell Eng Djaja, Singapore Institute of Manufacturing Technology, Singapore

ID 186 Adoption of Early Supplier Integration (ESI) for Manufacturing Strategy Formulation: A Literature Review

Budhi Santri Kusuma, Harmein Nasution, Nazaruddin and Rosnani Ginting, Universitas Sumatera Utara, Medan, Indonesia

ID 176 An Evaluation of Customer Satisfaction in Omnichannel Logistics Service Quality by Revised Importance–Performance Analysis and Benchmarking

Khanwara Sowijit, Detcharat Sumrit and Assadej Vanichchinchai, The Cluster of Logistics and Rail Engineering, Faculty of Engineering, Mahidol University Nakhon Pathom, Thailand

ID 185 Applied Multiple Criteria Inventory Classification for General Spare Parts: A case Study in Cement Industry in Thailand

Kansarn Pitchayaporn, Sumrit Detcharat and Vanichchinchai Assadej, The Cluster of Logistics and Rail Engineering, Faculty of Engineering, Mahidol University, Nakhon Pathom, Thailand

ID 166 Applying MCDM Approach to Investigate the Impact of Supply Chain Capabilities Factors toward Turnaround Performance: A Case Study in Japanese Car Manufacturer in Thailand

Duanghathai Monthong, Detcharat Sumrit and Assadej Vanichchinchai, The Cluster of Logistics and Rail Engineering, Faculty of Engineering Mahidol University, Nakhon Pathom, Thailand

ID 424 Halal Park in Klang Valley: Current Implementation in Malaysia

Nur Faizah Binti Mat Zain, Malaysia Institute of Transport, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia
 Harlina Suzana Binti Jaafar, Faculty of Business and Management, Universiti Teknologi MARA, Shah Alam, Selangor, Malaysia

ID 384 Humanitarian Supply Chain Management Challenges in COVID-19 Vaccine Distribution: A Study Case from Bandung Indonesia

Vina Sari Yosephine, Kevin Sudarman and Leo Rama Kristiana, Industrial Engineering Department, Institut Teknologi Harapan Bangsa, Bandung, Indonesia

ID 422 Impact of Digital Marketing on Supply Chain Collaboration through S&OP Framework: A Retail Industry Case Study

Marcell Eng Djaja, Singapore Institute of Manufacturing Technology, Agency for Science, Technology and Research (A*STAR), Singapore 138634, Singapore and Logistics and Supply Chain Management, University of Warwick
 Xue-Ming Yuan, Singapore Institute of Manufacturing Technology, Agency for Science, Technology and Research (A*STAR), Singapore 138634, Singapore

8:00 – 9:45 am, MONDAY**Sustainable Manufacturing****Virtual Room 4**

Session Chair: Biswaksen Mishra, Management Development Institute, Gurgaon, India

ID 78 Sustainable Reverse Logistics Implementation with Triple Bottom Line Approach

Fahri Anwar and Erwin Widodo, Industrial and Systems Engineering, Sepuluh Nopember Institute of Technology (ITS), Surabaya, Indonesian

ID 188 Value Chain Ugly Smile

Audrey Burgener and Ahmed Deif, Department of Industrial Technology and Packaging, California Polytechnic State University, San Luis Obispo, CA 3407, USA

ID 467 Physical Work Environment Analysis to Optimize Shortterm Memory

Perdana Suteja Putra, Industrial Engineering, Institut Teknologi Telkom Surabaya, Surabaya, Indonesia
 Silvi Istiqomah, Industrial Engineering, Institut Teknologi Telkom Surabaya, Surabaya, Indonesia
 Yunita, Industrial Engineering, Institut Teknologi Telkom Surabaya, Surabaya, Indonesia

ID 238 Realitionsips between Lean and Sustainability Manufacturing: A Literatur Review

Surya Indrawan^{1,2,a}, Sukaria Sinulingga^{2,b}, Nazaruddin Matondang^{3,c},
 Udisubakti Ciptomulyono^{4,d}
^{1,2,3}Department of Industrial Engineering, University of North Sumatera, Medan, Indonesia, and
⁴Department of Industrial Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia
²Program Studi Teknik Industri, Sekolah Tinggi Teknologi Dumai, Jl. Utama Karya, Bukit Batrem, Dumai, Riau, Indonesia

ID 86 Sustainable Operations in Paper and Pulp Industry: Analysis of Challenges

Biswaksen Mishra and Rajesh Kumar Singh, Management Development Institute, Gurgaon, India

ID 138 The Mediation Role of Flexibility on the Relationship Between Sustainable Supply Chain and Operational Performance: US Manufacturing Industry

Raed El-Khalil, Industrial Engineering Manager, Michigan Assembly Plant, Ford Motor Company, Wayne, Michigan, USA

8:00 – 9:45 am, MONDAY**Operations Management****Virtual Room 5**

Session Chair: Lizabeth Ann D. Franco, University of the Philippines Diliman, Philippines

ID 464 The Cognitive Intervention for Hazard Prevention to Improve Safety Behavior in Creative Industry (Case Study: Indonesian's Batik SME)

Nachnul Ansori, Industrial Engineering, Universitas Trunojoyo Madura, Indonesia

Ari Widyanti, Professor of Industrial Engineering, Institut Teknologi Bandung, Indonesia

Rifko Rahmat Kurnianto, Industrial Engineering, Institut Teknologi Bandung, Indonesia

Made Ardhia Diva Vikanaswari, Hazza Shafa Ramadhana and Aulia Fajriningtyas, Undergraduate Students of Industrial Engineering, Institut Teknologi Bandung, Indonesia

ID 423 A Study on the Implementation of Safety and Health Management System in Oil and Gas Industry in Indonesia: A Case Study On Implementing ISO 45001 for Internal Audits

Murdjitoa, Lecturer, Department of Ocean Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

Nara Salsabyla, Undergraduate student, Department of Ocean Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

Daniel Muhammad Rosyidc, Lecturer, Department of Ocean Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 512 Impact of COVID-19 on College Students' Well-Being: Development of Chatbot through Multi-Criteria Decision Analysis

Lyka Degala, Kharizza dela Fuente, Venusmar Quevedo and Noe Enriquez, Department of Industrial Engineering, College of Engineering, Adamson University, Manila, Philippines

ID 33 KPI Analysis and Application

James C. Chen, Department of Industrial Engineering and Engineering Management, National Tsing Hua University, Hsinchu, Taiwan, R.O.C

Tzu-Li Chen, Department of Industrial Engineering and Management, National Taipei University of Technology, Taipei, Taiwan, R.O.C

Meng-Gung Li, New Kinpo Group, New Taipei City, Taiwan, ROC

Kung-Chin Koo, Department of Industrial Engineering and Engineering Management, National Tsing Hua University, Hsinchu, Taiwan, R.O.C

ID 350 Assessing the Performance of Physically-Constrained Fixed-Lane Queueing Systems

Lizabeth Ann D. Franco and Simon Anthony D. Lorenzo, Department of Industrial Engineering and Operations Research, College of Engineering, University of the Philippines Diliman, Philippines

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

Session Chair:

ID 476 A Study of The Effecting of Welding Process for Gas Metal Arc Welding Between Ferritic Stainless Steel 1.4003 And Carbon Steel Ss400

Chonlakorn Onma and Jongkol Srithorn, System Engineering Program, The School of Industrial Engineering, Suranaree University of Technology Nakhon Ratchasima, Thailand

ID 11 Effective Capacity Planning for Operations in a Contract Manufacturing Setting

Alexandr M. Sokolov, Niamat Ullah Ibne Hossain, Cameron D. Nick and Brian Merrill, Engineering Management and Construction Management College of Engineering and Computer Science Arkansas State University, State University, AR 72467, USA

ID 8 Implementing the Overall Equipment Effectiveness Metric in an Industrial Manufacturing Environment

Alexandr M. Sokolov, Niamat Ullah Ibne Hossain, Aaron Storms, and Brian Merrill, Engineering Management and Construction Management College of Engineering and Computer Science Arkansas State University, State University, AR 72467, USA

ID 462 Trends in the Development of 3D Printed Filters for Water Purification

Lindelwa. Mafanya and Daramy Vandii von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg 2006, South Africa

Cristina Anghel, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg 2006, South Africa

ID 9 Utilizing DMAIC Process to Identify Successful Completion of SRAD Phases of Waterfall Development

Niamat Ullah Ibne Hossain, Alexandr M. Sokolov, Tim Petersen and Brian Merrill, Engineering Management and Construction Management College of Engineering and Computer Science Arkansas State University, State University, AR 72467, USA

ID 477 Integration of Design for Cost and Design for Manufacture and Assembly in product design improvement

Taufan Tama Gusman, Postgraduate of Industrial Engineering Student, University of North Sumatra, Medan, Indonesia

Rosnani Ginting, Head of Master Industrial Engineering Program, Faculty of Engineering, University of North Sumatera, Medan, Indonesia

Aulia Ishak, Head of Industrial Engineering Program, Faculty of Engineering, University of North Sumatera, Medan, Indonesia

ID 426 Redesigning Lineman's Plier

Benito Male VII, Joshua Go, Shanne Caceres, Kyle Ramos and Sky Ronquillo, Department of Industrial and Systems Engineering Students

John Gokongwei College of Engineering, De La Salle University, Manila, Philippines

Ronald Mariano, Asst. Professorial Lecturer of Industrial and Systems Engineering, John Gokongwei College of Engineering, De La Salle University Manila, Philippines

8:00 – 9:45 am, MONDAY**Business Management****Virtual Room 7**

Session Chair: Maya Ariyanti, Faculty of Economics & Business, Telkom University, Bandung, Indonesia

ID 377 Analysis of the Structure, Conduct and Performance of Indonesia Halal Food Industry with Digital Marketing Post Covid 19 Pandemic

Manihuruk Samuel Alkadri, Postgraduate Doctoral Student, Faculty of Economics, Borobudur University, Jakarta, Indonesia

Manihuruk Christianus, Lecturer Faculty Management and Business, Bina Nusantara University, Jakarta, Indonesia

ID 143 Digital Coffee Shop Marketing Transformation During the Covid-19 Pandemic in Medan City

Hafiza Adlina, Lecturer of Business Administration, Universitas Negeri Medan, Medan, Indonesia
Fredrick Boven Ekayanta, Lecturer of Politic Science, Universitas Negeri Medan, Medan, Indonesia

ID 140 Digital Marketing Strategies to Sales of SME's Gempolklutuk Village Products

Arasy Alimudin, Agus Sukoco, Ani Wulandari and Elok Damayanti, Department of Management, Narotama University, Surabaya, Indonesia

ID 411 Frugal Behavior Potential and Development for Community Financial Stability in Crisis Time

Mia Rahma Romadona, Suryadi, Sigit Setiawan, Asep Husni Yasin Rosadi and Fachrizal, All Researchers from the Research Center for Economics Industry, Services, and Trade, National Research and Innovation Agency, Jl. Gatot Soebroto Kav.10 Shouth Jakarta, Indonesia

ID 550 The Effect of Marketing Activities Through Social Media Instagram on Brand Equity and Purchase Intention in The Culinary Industry (Case Study at Café Limarasa)

Ramadhan Deswandi, Magister Management Student, Faculty of Economics and Business, Telkom University Bandung, Jawa Barat, Indonesia
Maya Ariyanti, Lecturer of Magister Management, Faculty of Economics and Business, Telkom University Bandung, Jawa Barat, Indonesia

ID 277 The Influence of Service Quality, Store Atmosphere, and Application of Health Protocols on Repurchase Intention

Arasy Alimudin, Chelsea Nikita Siahaan, Agus Sukoco and Elok Damayanti, Department of Management, Narotama University, Surabaya, Indonesia

ID 540 The Influence of Social Media Marketing on Purchase Intention through Brand Awareness and Brand Trust in Financial Services

Maya Ariyanti and Noni Anggraeni Anaprana, Faculty of Economics & Business, Telkom University, Bandung, Indonesia

March 6, 2023 (Monday) - Session: 10:00 – 11:45 am

10:00 – 11:45 am, MONDAY

Undergraduate Student Paper Competition

Virtual Room 1

Session Chair: Judging Committee Chair

ID 382 Nft Coin Price Prediction (Non-Fungible Token) Using K-Nearest Neighbors Method

Adena Wahyu Gumelar, 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

ID 468 Ergonomic Waist Therapy Design for Low Back Pain Suffers Using Nigel Cross's Method

Adrian Hartanto, Alvin Setiawan, Supranata, Miranda Azalia, and Josua Marganda Tua Samosir, Department of Industrial Engineering, Faculty of Engineering, Universitas Sumatera Utara, 20222, Medan, Indonesia

ID 333 Optimization of Fuel Distribution Routes for Green Logistics in Multi Compartment Vehicle Routing Problem (MCVRP) using Branch and Bound Algorithm (Case Study: Boyolali Fuel Terminal)

Millenia S. Anggraeni, Osel N. Tazkiya, Exga Mawandi and Harummi S. Amarilies, Logistics Engineering Department, Universitas Pertamina, Jakarta, Indonesia

ID 402 Perceived Impact of Online Classes on the Professional Preparedness of Graduating Engineering Students

Hanz Jerald A. Atok, Kent Francis Barcelona, Earl Christian D. Palma and Donnavil T. Valenzuela, Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines - Quezon City, Cubao, Quezon City, Philippines

ID 94 Production Management Model to Reduce Production Costs Using the SLP Technique in the Curtain Making Process: Textile Sector Case

Renzo Sebastián Bernaola Vara and Raúl Alejandro García Ruiz, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Perú
Carlos-Augusto Lizárraga-Portugal, Research Professor, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Perú

ID 542 Service Quality Assessment of a Local Government Unit's Disaster Response using Factor Analysis

Ethan Corey M. Escobar, Bianca Marie B. Galam, Junina Marie C. Hey and Allyssa Joy T. Idio, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines
Gabriel C. Bucu, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

ID 307 Reliability-based Optimised Robustly Using Non-Normal Distribution Parameters in the Design of Automotive Components

Rashid Naib Rafi, Islamic University of Technology, Bangladesh

ID 316 Using the house of quality, determine the ideal set of design criteria

Naimur Rahman Naim, Department: Mechanical & Production Engineering, Islamic University of Technology, Dhaka, Bangladesh

10:00 – 11:45 am, MONDAY

Supply Chain Competition and HF Competition

Virtual Room 2

Session Chair: Judging Committee Chair

SUPPLY CHAIN AND LOGISTIC COMPETITION - Part 1

ID 545 A Conceptual Model for Developing a Selection Error Measurement Method to Measure the Effectiveness of the Time Series Forecasting Method

Nattavadee Mahanil and Premporn Khemavuk, Department of Industrial Engineering, Faculty of Engineering, King Mongkut's University of Technology North Bangkok, Bangkok, 10800, Thailand

ID 529 The Use of Machine Learning in Supply Chain Management, A Systematic Review

Hossein Soltani and Pawan Bhandari, Department of Manufacturing Engineering Technology, Minnesota State University, Mankato, MN, USA

ID 606 Supply Chain related Cyber Attacks

Gaurav Ghosh and Pawan Bhandari, Department of Automotive and Manufacturing Engineering Technology, Minnesota State University, Mankato, MN 56001, USA

HUMAN FACTORS AND ERGONOMICS COMPETITION**ID 428 Assessment of Manual Material Handling Risks in Small Scale Industries by NIOSH Lifting Equation- -A Case study of Stone Polishing industry and Saw mill**

Qutubuddin S.M., Industrial & Production Engineering Department, P.D.A. College of Engineering, Kalaburagi, Karnataka, India

ID 70 Effect of Car Headlight Metaphorical Face on Consumer's Affective Response and Purchase Intention

Rosemary R. Seva, Clark Daniel Y. Amigable, Ryan Clarence J. Pangalangan and Dustin Nicolo A. Yu, De La Salle University – Manila, Philippines

ID 526 Effects of Workplace Diversity on Employee Performance in the Garment Industry

Gouri Priya Jyothi L, Amrita School of Business, Coimbatore, India

ID 554 Relieving the Pain: An Ergonomic Analysis of Low Back Pain among Tricycle Drivers in the Vicinity of University of Santo Tomas-Manila

Ruth Dorothy G. Dela Cruz, Cherry Rose V. Estrada, Honey Katrieze A. Lastimosa and Kaye C. Valdezotto, Student of Industrial Engineering Faculty of Engineering, University of Santo Tomas, Manila, Philippines

ID 662 Determination of Occupational Stress Level and Mental Workload in a Manufacturing Company

Abdulaziz AlSawagh, Ahmed Altemeemi, Aqeel Esmail, Hasan AlOstath, Humoud AlRowais and Suat Kasap, College of Engineering and Technology, Industrial Engineering Department, American University of the Middle East, Eqaila, Kuwait

ID 674 Factors Affecting Employee Retention In The Philippine Business Process Outsourcing Industry: Integrating Job Embeddedness Theory

Yoshiki B. Kurata, Kervin Victor S. Belisario, Mariah Mervette D. Mescala, and Rafael Lorenzo L. Valenzuela, Department of Industrial Engineering, University of Santo Tomas, España Blvd, 1015, Manila, Philippines

10:00 – 11:45 am, MONDAY**SCM****Virtual Room 3**

Session Chair: Ajeet Kumar Yadav, IIT (BHU), India

ID 54 Data Analytics in an Operational System with FMEA in A Healthcare Organization

Duangpun Kritchanhai, Industrial Engineering Faculty of Engineering Mahidol University, Salaya, Nakhon Pathom, Thailand
Kesorn Thongneng, Logistics and Supply Chain of Engineering Program, Mahidol University

ID 158 Third Party Logistics – SPD Model in Hospital Supply Chain

Kiattisak Lapmool, Department of Industrial Engineering, Faculty of Engineering, Mahidol University, Nakhon Pathom, Thailand
Duangpun Kritchanhai, Associate professor of Industrial Engineering, Director of the Centre of Logistics and Healthcare Supply Chain, Department of Industrial Engineering, Faculty of Engineering, Mahidol University, Nakhon Pathom, Thailand

ID 349 The Barriers and Critical Success Factors that Affect the Implementation of Lean Supply Chain Management in Medical Devices Companies

Hamizah Pardi, Mohd Nizam Ab Rahman and Nizaroyani Saibani, Department of Mechanical and Manufacturing Engineering, Faculty of Engineering & Built Environment, Universiti Kebangsaan Malaysia, Malaysia

ID 168 Reduction of Raw Materials Inventory Costs: A Case Study of Auto Parts Company

Nichaphat Khamai, Master of Engineering Program in Logistics Engineering and Supply Chain Management, Department of Industrial Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai, Thailand
Apichat Sopadang, Excellence Center in Logistics and Supply Chain Management (E-LSCM), Chiang Mai University, Chiang Mai, Thailand

ID 225 Evaluating the barriers of the resilient supply chain

Ajeet Kumar Yadav, IIT(BHU), India

10:00 – 11:45 am, MONDAY**Business Management****Virtual Room 4**

Session Chair: Vera Risti, Universitas Telkom, Indonesia

ID 456 A Case Study on the Correlation of Occupational Factors and Health-Related Behaviors to the Physical and Mental Health Problems of the Truck Drivers of 168 Rock Corporation

Carlos Ignacio P. Lugay Jr., Lyza Teresita V. Bernal, Troy Gabriel B. Dagdagan, Andre Sidney D. Lapasaran and Vashti Jan P. Sanchez, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, España Blvd, 1015, Manila Philippines

ID 465 A Predictive Model on a Consumer's Impulsive Buying Intention Towards Facebook Live Online Selling Using Binary Logistic Regression

Assoc. Prof. Carlos Ignacio Jr. P. Lugay, PhD, PIE, ASEAN Engr., Kian Justin O. Angeles, Karl G. Espina, Bianca DP. Lipata and Jan Cedrick V. Sta. Cruz, Faculty of Engineering, University of Santo Tomas, Manila, Philippines

ID 216 Assessment of The Prevalence of Symptoms of Vibration-Related Illnesses Among Agricultural Machine Operators In The Philippines

Princess Mercado, UPLB Industrial Engineering Department, Philippines

ID 65 Assessment of Transmitted Disease Service Readiness in 12 Puskesmas Before and During The COVID-19 Pandemic (Application of The Concept of Service Availability Readiness Assessment)

Iin Nurlinawati, Harimat Hendarwan and Telly Purnamasari, Researcher of Research Center for Preclinical and Clinical Medicine, National Research and Innovation Agency, Indonesia

Aris Yulianto, Student at ASEAN Institute for Health Development, Mahidol University, Nakhon Pathom 73170, Thailand

Researcher of Research Center for Preclinical and Clinical Medicine

ID 381 Asset Useful Life Evaluation Model by A Life-Cycle Management Approach

Satrio Samudro Aji Basuki and Nani Kurniati, Industrial and Systems Engineering Department, Faculty of Industrial Technology and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 291 Business Feasibility Study of Boatbuilding at Traditional Shipyard in Indonesia

Yugowati Praharsi, Business Management, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia

Muhammad Abu Jami'in, Electrical Engineering Department, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia

Devina Puspita Sari, Business Management, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia

ID 473 Business Strategy Formulation of the Kosaka Sejahtera Utama Consumer Cooperative (KKSU) Based on Digital Transformation Towards SDGs 8.2 Target

Vera Risti, Universitas Telkom, Indonesia

10:00 – 11:45 am, MONDAY

Operations Management

Virtual Room 5

Session Chair: Aditya Agrawal, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

ID 282 The Effect of Trust and Price on Brand Image and Consumer Decision Making on New E-Commerce Platforms Digital Business Gempolklutuk Village

Arasy Alimudin, Agus Sukoco, Ani Wulandari, Achmad Muchayan and Winarto Poernomo, Department of Management, Narotama University, Surabaya, Indonesia

ID 434 The Influence of Instagram Marketing on Customer Purchase Intention through Customer Inspiration (Study on Telkomsel Postpaid)

Indrawati, Associate Professor in Marketing, Faculty of Economy & Business, Telkom University, Bandung, Indonesia

Zenia Rahmah, Associate Professor of Marketing & Consumer Studies, Faculty of Economy & Business, Telkom University, Bandung, Indonesia

ID 201 Usability Analysis of The Ronnie Baugh (Oggun li) Tractor Using the Single Usability Metric

John Lester R. Remot, Stephanie Caridad DR. Landicho, John Kenneth P. Punongbayan, Omar F. Zubia, PhD and Josefa Angelie D. Revilla, PhD, University of the Philippines Los Baños, Undergraduate Research, Human Factors and Ergonomics

ID 76 Apply the Tiling Technique of Heterogeneous Computing on Meta-heuristics

Gary Yu-Hsin Chen, Department of Logistics Management, National Kaohsiung University of Science and Technology, Kaohsiung 82445, Taiwan

Ping-Shun Chen, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Chung Li 32087, Taiwan

ID 364 Supply Chain Integration in Marketing: A Literature Review

Adharsh. R, Shri Sudarshan. R, Albi Thomas and M. Suresh, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

ID 425 Exploring Competitive Priorities and Firm Performance in Steel Organisations Using Importance-Performance Analysis With PLS-SEM: An Evidence from India

Sudeshna Rath and Rajat Agrawal, Department of Management Studies, IIT Roorkee, Uttarakhand, India

ID 429 Factors Affecting Maintenance in Hazardous Work Environments

Aditya Agrawal and M. Suresh, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

10:00 – 11:45 am, MONDAY

Business Management

Virtual Room 6

Session Chair: Clarisha Hanandya Puspitadewi, Universitas Indonesia, Depok, 16424, Indonesia

ID 10 An Economic Analysis for Residential Rooftop Solar Photovoltaic Panels in the State of Texas

Alexandr M. Sokolov, Niamat Ullah Ibne Hossain, Ahlam Safouhi and Brian Merrill, Engineering Management and Construction Management College of Engineering and Computer Science Arkansas State University, State University, AR 72467, USA

ID 7 Integrating Performance Indicators to Track the Production Development of Manufacturing Lines

Alexandr M. Sokolov, Niamat Ullah Ibne Hossain, Jose J. Albarran and Brian Merrill, Engineering Management and Construction Management College of Engineering and Computer Science Arkansas State University, State University, AR 72467, USA

ID 12 Enhancing Math Comprehension Skills at the Elementary School Level: An Empirical Approach

Niamat Ullah Ibne Hossain, Alexandr M. Sokolov, Unique Kilgore and Brian Merrill, Engineering Management and Construction Management College of Engineering and Computer Science Arkansas State University, State University, AR 72467, USA

ID 326 Employee Wellbeing Centred Total Productive Maintenance Practices: An Integrated Framework

Ashutosh Samadhiya, Assistant Professor, Jindal Global Business School, OP Jindal Global University, Sonapat, India

Jose Arturo Garza-Reyes, Centre for Supply Chain Improvement, The University of Derby, Kedleston Road Campus, Derby DE22 1GB, United Kingdom

Anil Kumar, Senior Lecturer, Guildhall School of Business and Law, London Metropolitan University, London, N7 8DB, United Kingdom

ID 89 Entrepreneurship through cold chain and supply chain concepts to solve problem of post-harvest loss of fruits and vegetables in India

Dr. Bhairab Chandra Patra, School of Business, Woxsen University, Hyderabad, Telangana - 502345, India

Dr. Usha Lenka, Department of Management Studies, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand-247667, India

ID 502 Evaluation of Circadian Rhythmic Activity Cycle in line with Academic Activities among Engineering Students Studying in NCR during an Online Setup

Assoc. Prof. Carlos Ignacio P. Lugay Jr., Ph.D., PIE, ASEAN Eng, Professor of Industrial Engineering, Associate Professor of The Industrial Engineering Department, Faculty of Engineering, University of Santo Tomas, España Blvd, 1015, Manila, Philippines

Rich Anne D. Dela Cruz, Erika Anne C. Maaño, Vhyns Eric V. Mahaguay and Jan W. Sta. Ana, Department of Industrial Engineering, University of Santo Tomas, España Blvd, 1015, Manila, Philippines

ID 320 Facility Planning of Thirdwave Coffee Co. Cafe with SLP Approach

Clarisha Hanandya Puspitadewi, Janita Rahma Budiasih, Qanitha Salsabila and Rahma Salsabila Mudrika, Department of Industrial Engineering, Universitas Indonesia, Depok, 16424, Indonesia

Ardhy Lazuardy, Department of Industrial Engineering, Universitas Indonesia, Depok, 16424, Indonesia

10:00 – 11:45 am, MONDAY**Engineering Management****Virtual Room 7**

Session Chair: Mustafa, Universitas Pamulang, Indonesia

ID 433 Factors Influencing MSMEs Performance

B.U. Sivakami and M. Suresh, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

ID 459 Forecasting Electric Consumption based on Nested LSTM and Attention Mechanism Approach with Cuckoo Search Optimizer

Dean Tirkaamiana and Nurhadi Siswanto, Industrial and Systems Engineering Department, Faculty of Industrial Technology and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 312 Greener Strategy for Small and Medium sized Automotive Service Industry

John Mark S. Francisco, College of Education, University of southeastern Philippines, Bo. Obrero, Obrero, Davao City, Philippines

ID 466 How Street Vendors Survive with Competence and Innovation Capabilities

Susi Desmaryani, Regional Research and Development Agency Jambi Province, Indonesia

ID 367 Impact of pandemic on Indian Medical Device Industry

Sourav Somesh, Amrita School of Business, Bangalore, India

Maria Sabastin Sagayam, Amrita School of Business, Bangalore, Amrita Vishwa Vidyapeetham, India

ID 370 IP Law in Metaverse Properties

Muhammad Reza Syariffudin Zaki, Business Law Department, Faculty of Humanities, Bina Nusantara University, Indonesia

Hendra, Undergraduate Business Law Department, Faculty of Humanities, Bina Nusantara University, Indonesia, Jakarta, Indonesia

ID 132 Islamic Economics as an Alternative Economy in Facing the Global Economic Recession

Mustafa, Universitas Pamulang, Indonesia

Ghonimah Zumroatus Ainiyah, STIE Tamansiswa Banjarnegara, Indonesia

March 6, 2023 (Monday) - Session: 12:00 – 1:45 pm**12:00 – 1:45 pm, MONDAY****Undergraduate Student Paper Competition****Virtual Room 1**

Session Chair: Judging Committee Chair

ID 310 Blockchain Integration in Food Supply Chain

Md.Asif Zawad, IPE, MPE, IUT, Bangladesh

Tahia Ilham, IPE, MPE, IUT, Bangladesh

ID 318 Chi-squared tests of interval and density estimates, as well as fan charts from the Bank of England

Fahim Mushfique Labib, Department: Mechanical & Production Engineering, Islamic University of Technology, Bangladesh

ID 315 Conditional Probability of Survival in Patients with Diagnosed Glioblastoma

Arafat Ahmed, Department of Mechanical and Production Engineering, Islamic University of Technology, Board Bazar, Gazipur, Bangladesh

ID 295 Linear Regression and Its Applications

Alvee Jawad and Bin Hamid, Islamic University of Technology, Bangladesh

ID 319 Linear Regression's Collinearity Problem to Generalized Inverses, Use the Partial Least Squares (PLS) Approach

Mahim Mushfique Laham, Mechanical & Production Engineering, Islamic University of Technology, Bangladesh

ID 583 A PDCA Approach on Determining Factors to Increase the Profit Contribution of the IT Department of a Local Online Delivery Service Company

Alexa Mae I. Manrique, Aliyah Geeña L. Naldoza, Mae Angelica S. Salonga, and Maxine Hannah S. Villanueva, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila 1008, Philippines

Charlie A. Marquez, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila 1008, Philippines

ID 663 Perceived Impact of Online Classes on the Professional Preparedness of Graduating Engineering Students

Hanz Jerald A. Atok, Kent Francis Barcelona, Earl Christian D. Palma and Donnavil T. Valenzuela, Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines - Quezon City, Cubao, Quezon City, Philippines

ID 599 "Pasahero": A Mobile Transit Application that Tracks the Departure and Arrival Status of Buses

Dylan Aldryn Bartolome, Mark Lester Gubac, Christopher Josh Rivera and Jonilo Mababa, College of Computer Studies, Angeles University Foundation, Angeles City, Pampanga, Philippines

12:00 – 1:45 pm, MONDAY

Simulation and FYP Competitions

Virtual Room 2

Session Chair: Judging Committee Chair

SIMULATION COMPETITION

ID 3 Safety Stock and Inventory Control in System Dynamics Modeling at PVC Industry

Thomson Richard, Lina Gozali and Frans Jusuf Daywin and Ricky Farrel, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 208 Optimal Buffers Allocation in an Inter-facility Material Transfer System Modelled as a Closed Queueing Network and Analysed Through a Simulation-Optimisation Approach

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

ID 471 Streamlining Data Preparation for Discrete Event Simulations in Automobile Manufacturing: A Python-based Automation Tool

Ika Saran Kumar, National Institute of Technology Calicut, India

ID 660 Springbed Production Floor Relay Layout Using SLP, CORELAP, CRAFT, and BLOCPAN Methods with Promodel and FlexSim Simulations

Geraldo Rafael, Christyfanie Elva Angelica, and Natasia Aurelia, Industrial Engineering Department, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia

Lamto Widodo, Adiinto, and Lina Gozali, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia

SENIOR DESIGN PROJECT / FYP COMPETITION

ID 586 Market Research for Multifunction Salon Cabinet

Jennifer Juyanto, Elizabeth Clara Santoso, Mario Ajipangestu, Lina Gozali, Frans Jusuf Daywin, I Wayan Sukania, Wilson Kosasih, Adiinto, Carla Olyvia Doaly, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia
Maitri Widya Mutiara, Interior Design Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 620 Garbage Collection Vessel

Natasya Riana, Rafael ThreeGoenawan, Ammarullah Widjnyaka Digda, Lina Gozali, and Erwin Siahaan, Mechanical and Industrial Engineering, Universitas Tarumanagara, Indonesia

ID 659 Motorcycle Mirror Design to Improve Safety Driving

Cherry Atmodjo, Lamto Widodo and Lina Gozali, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 669 An Application of the Vehicle Routing Problem Model to a Local Company in Kuwait

Lara Kakouly, Noura Al-Mansour, Zain Alsabeeh, Hessa Aldeghaishem, Reem Almutairy, and Magdy Helal, College of Engineering and Technology, Industrial Engineering Department, American University of the Middle East, Eqaila, Kuwait

ID 673 Design and Simulation of Multipurpose Built-In Car Lifting Mechanism

Fahad Khaled Aldossary, Hamad Mohammed Alhashmy, Muthana Abdulla Al-Qatar, Albaraa Mohammed Alshuaibi, Abdullah Ahmed Alzahrani, and Hassan Ali Albuwaydi, Senior Mechanical Engineering student, Jubail Industrial College, Jubail, Saudi Arabia

Mohamed M.Y.B. Elshabasy, Department of Mechanical Engineering, Jubail Industrial College, Male Branch, Jubail Industrial City 31961, Eastern Province, Saudi Arabia and Department of Mechanical Engineering, Faculty of Engineering, Alexandria University, Alexandria 21544, Egypt

ID 707 Redesign Glass Cut Process to Increase Production Capacity at Window Manufacturing Company (WMC), Puerto Rico

Adiary Vicéns Agosto, Julio E. Rodríguez Colón and Jannette Pérez-Barbosa, Department of Engineering, Universidad Ana G. Méndez, Gurabo, Puerto Rico 00778, USA

12:00 – 1:45 pm, MONDAY

SCM

Virtual Room 3

Session Chair: Doha Talkhokhet, Faculty of Economics and Management of Settat, Morocco

ID 524 Impact of wholesale price contracts in a two – echelon Supply chains under production disruptions

T. Abdul Basith and Sajith Babu, Government Engineering College Trichur, India

Dr. Anand Abraham, Indian Institute of Technology Kharagpur, India

ID 161 Modelling Supply-Chain Relationship Spectrum on Step-Function using Fuzzy Set Theory

Manish Kumar Singh and Jitender Madaan, Department of Management Studies, IIT Delhi, Hauz Khas, New Delhi, India

ID 223 Artificial Intelligence and Smart Logistics Systems in Industry 4.0

Hasan Balfaqih, Supply Chain Management Department, College of Business, Effat University, Jeddah, 21478 Saudi Arabia

ID 75 An Empirical Evaluation of Factors That Affect Efficiency in Public Procurement

Bongumusa Mansuette Bhekamalinda Cebekhulu, P.A. Ozor and C. Mbohwa, NMISA, University of Johannesburg, Johannesburg, South Africa

ID 209 Solving the open vehicle routing problem with fuzzy restrictions on time windows

Yousra O. Alaoui, Phd student, University Moulay Ismail, Meknes, Morocco

Mustapha Oudani and Kenza Oufaska, TICLab Laboratory, LERMA Laboratory, International University of Rabat, Rabat, Morocco

Khalid El Yassini, IA Laboratory, Faculty of Sciences, Moulay Ismail University, Meknes, Morocco

ID 193 Port Supply Chain Performance: Dimensions and Indicators

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

Mohamed-Iliasse Mahraz, Ph. D 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

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

Session Chair: Pitchayaporn Lueangwattanapong, Suranaree University of Technology, Nakhon Ratchasima, Thailand

ID 520 Feasibility study to determine alternative optimized tooling solutions to improve costs and lead times

Kanin Rungrattanachavala and Phongchai Jittamai, School of Industrial Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

ID 470 Improving the Efficiency of Repacking Process with Lean Technique, The Study of Read with Me Group Company Limited

Jirayut Phetchuen and Jongkol Srithorn, System Engineering Program, The School of Industrial Engineering, Suranaree University of Technology Nakhon Ratchasima, Thailand

ID 308 Lean Implementation in the Construction Industry

Vishnu A C, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

Shriya Rajan, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

Aswathy Sreenivasan, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

M. Suresh, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

ID 266 Lean Practices in the Mexican Healthcare System

Rodrigo Peimbert Garcia, Tecnológico de Monterrey, Mexico and Macquarie University, Australia

ID 170 Productivity Improvement of Coal Barge Loading Conveyor using Lean Concept: A Case Study in Coal Mining Industry

Selamat W. Hia, Graduate Student, Management and Technology, Institut Teknologi Sepuluh November, Surabaya, Indonesia

ID 454 The Impact of Lean Tools on Sustainable Performance: Conceptual Model for Manufacturing Sector in Sri Lanka

Nimeda Deshani, Department of Organizational Department, The Open University of Sri Lanka, Nawala, Nugegoda, Sri Lanka

Chathurani Silva, Department of Decision Sciences, University of Sri Jayewardenepura, Gangodawila, Nugegoda, Sri Lanka

ID 499 Work Flow Redesign to Eliminate Waste and Reduce Service Time at The Local Automobile Station

Pitchayaporn Lueangwattanapong and Phongchai Jittamai, School of Industrial Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

12:00 – 1:45 pm, MONDAY**Operations Management****Virtual Room 5**

Session Chair: Lisna Wulian Urfa, Department of Informatics, Universitas Jenderal Achmad Yan, West Java, Cimahi, Indonesia

ID 187 An integrated approach to model the critical success factors in the restaurant industry

Mohit Tyagi, Indian Institute of Technology, Delhi, India

ID 229 Analysis and Energy Strategy of Power Usage in a Mosque: A Case Study of Mosque in Indonesia

Ardhy Lazuardy, Arsya Nugraha P, Haikal Rastinggi, Luthfi Azmaiza, Rachmat Nurcahyo and Rizal Palapa, Department of Industrial Engineering University of Indonesia, Salemba, Indonesia

ID 235 Analysis and Improvement of Energy Consumption for Indonesia Mosque

Aqil Athalla Reksoprodjo, Bonang Ananta Sakti, Muhammad Habiburrahman, Made Nindya Kirana and Welhelmina Vince, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Jawa Barat, Indonesia

ID 547 Analysis Factors Affecting Utilization Slot Time in Soekarno-Hatta International Airport

Teguh Ramadhani, ST., Dr. Gadang Ramantoko, Ir. DEA. and Siska Noviaristanti, S.Si., M.T, Ph. D, Master of Management, Telkom University, Bandung, West Java, Indonesia

ID 241 Analysis of Driver Behavior Questionnaire Variables on Driving Safety: A Literature Review

Diana Khairani Sofyan, A Rahim Matondang, Listiani Nurul Huda and Aulia Ishak, Industrial Engineering Science Doctoral Study Program, Universitas Sumatera Utara, Jl. Almameter Kampus USU Medan, Indonesia

ID 523 Application of AHP and TOPSIS Method: A Case Study in the Indonesian Leather Industry

Mochammad Chaeron, Gunawan P. Madyono and Apriani Soepardi, Department of Industrial Engineering, Faculty of Industrial Engineering Universitas Pembangunan Nasional Veteran, Yogyakarta, Indonesia

ID 325 Application of Data Mining in Predicting Herpes Disease Using the C4.5 Algorithm

Lisna Wulian Urfa, Department of Informatics, Universitas Jenderal Achmad Yan, West Java, Cimahi, Indonesia

Tacbir Hendro Pudjiantoro and Fajri Rakhmat Umbara, Department of Information Systems, Universitas Jenderal Achmad Yani, West Java, Cimahi, Indonesia

12:00 – 1:45 pm, MONDAY**Business Management****Virtual Room 6**

Session Chair: S A Mohan Krishna, Vidyavardhaka College of Engineering, Karnataka, India

ID 360 Multifunctional Autonomous Agricultural Robot Based on Message Queuing Telemetry Transport

S. Prakash, Pg Student, Dept of Operations, Amrita School of Business, Coimbatore, India

Hemamala K, Assistant Professor, Dept of Operations, Amrita School of Business, Coimbatore, India

ID 289 Obstacle Factors of Research Product Commercialization in University

Prima Fithri, Lecturer of Industrial Engineering, Universitas Andalas, West Sumatera, Indonesia

Alizar Hasan, Professor of Industrial Engineering, Universitas Andalas, West Sumatera, Indonesia

Uyung Gatot S. Dinata, Lecturer of Mechanical Engineering, Universitas Andalas, West Sumatera, Indonesia

Amna Suresti and Rahmi Wati, Lecturer of Animal Husbandary Faculty, Universitas Andalas, West Sumatera, Indonesia

ID 362 Optimal Preventive Maintenance of Leased Equipment by Considering Availability

Yoga Aulia and Nani Kurniati, Industrial and Systems Engineering, Sepuluh Nopember Institute of Technology (ITS), Surabaya, 60111, Indonesia

ID 372 Performance Analysis of GFDM System in 5G Cellular Networks

R. Jeganalal, PG Student, Department of ECE, PSN College of Engineering and Technology, Tirunelveli, India

C. Mariyal, Associate Professor, Department of ECE, PSN College of Engineering and Technology, Tirunelveli, India

G. Jiji, Professor, Department of ECE, Lord Jegannath College of Engineering and Technology, Tirunelveli, India

ID 452 Pop Music Midi Generation using Long Short-Term Memory based Recurrent Neural Network

Don Vincent Goodrich S. Ignacio and Hans Y. Sicangco, College of Computer Studies, Angeles University Foundation, Angeles City, Philippines

James A. Esquivel, College of Computer Studies, Faculty, Angeles University Foundation, Angeles City, Philippines

ID 552 A research proposal: Understanding the business analytics capability and impact on the upstream oil and gas surface facility performance

Agung Prasetya, Candidate Doctor in Science Management, Doctor of Science in Management, School of Business Management – Bandung Institute of Technology (SBM ITB), Bandung, Indonesia

Professional at Oil and Gas Industry, Research Interest: Information Management, Decision Support Systems, Business Analytics, Office Location:

PT Pertamina Hulu Rokan, Rumbai, Pekanbaru, Indonesia

Yos Sunitiyoso, Associate Professor, Decision-Making and Strategic Negotiation Interest Group, Research Interest: transportation, Decision Science, Modelling, Simulation, School of Business Management – Bandung Institute of Technology (SBM ITB), Bandung, Indonesia

Meditya Wasesa, Assistant Professor, Research Interest: Decision-Making and Strategic Negotiation Interest Group, Research Interest: Information Systems, Decision Support Systems, Business Analytics, logistics, Sustainability, Office Location: Faculty Room-5th Floor, Labtek XIX-Freeport Building, SBM-ITB, Bandung, Indonesia

Building, SBM-ITB, Bandung, Indonesia

ID 73 Recent Trends, Technological Advances & Research Prospects in Energy Engineering and Systems

S A Mohan Krishna, Associate Professor of Department of Mechanical Engineering, Vidyavardhaka College of Engineering, Karnataka, India

12:00 – 1:45 pm, MONDAY**Engineering Analysis****Virtual Room 7**

Session Chair: Dian Prianka, Faculty of Creative Industries, University of Surabaya, Indonesia

ID 202 Adoption of Electric Vehicles for Logistic Service Providers in Indonesia

Achmad Gunawan Wibisono, Alwin Ponco Nugroho, Hanif Hamdani, Muhammad Fadhil Rajabi and Muhammad Habiburrahman, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 182 Comparison of Life Cycle Cost (LCC) and Carbon Impact Between Conventional and Electric Motorcycle for Daily Use in Jakarta

Bhetta Age Saputra, Dian Novita Sari, Hafizh Rifqi, Salwa Nahlya Tazkia, Arief Nurdini and Rahmat Nurcahyo, Industrial Engineering Department

Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 32 Major Challenges to Formal E-waste Management Systems in Developing Countries

Varun Kumar and Om Ji Shukla, Department of Mechanical Engineering, National Institute of Technology Patna, Patna, India

ID 413 Understanding Consumer Choices and Attitudes towards Electric Vehicles in India: A Study of Purchasing Behavior and Policy Implications

Deepak Gautam, Research Scholar at Department of Mechanical Engineering, Indian Institute of Technology, Delhi, India

Nomesh Bolia, Professor at Department of Mechanical Engineering, Indian Institute of Technology, Delhi, India

ID 306 Chi-Square Test and Its Application in Hypothesis Testing

M.Abrar Faiyaz Rabbi, Islamic University of Technology, Bangladesh

ID 97 Quality Improvement of Black Spot Defects in The Plastic Injection Molding Process at Company Abc

Ryan Jeffrey P. Curbano, Ph.D. ASEAN Eng., Associate Professor A. in Industrial Engineering, College of Engineering and Computer Studies

Chief Quality Officer, Lyceum of the Philippines Laguna, Calamba, Laguna, Philippines

ID 290 Application of Virtual Experiential Marketing on Digital Fashion Product on Online Selling Platform

Dian Prianka, Christabel Annora Paramita Parung, Brian Kurniawan Jaya, Markus Hartono and Viviany Viviany, Faculty of Creative Industries, University of Surabaya, Indonesia

March 6, 2023 (Monday) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, MONDAY

Undergraduate Student Paper Competition

Virtual Room 1

Session Chair: Judging Committee Chair

ID 559 Evaluating Factors Influencing Filipinos' Perceived Behavior to Boost Healthy Lifestyle through Multiple Regression Analysis
Yoshiki B. Kurata, Alyssa Laraine M. Cunanan, Alwin G. Lumbres, Kyle Gericho M. Palomares, Christine Denise A. Vargas and Abiel M. Badillo, Department of Industrial Engineering, University of Santo Tomas, España Blvd, 1015, Manila, Philippines

ID 347 Integrating Healthcare Processes through Supply Chain Principles
Mariam Altabsh and Abdulaziz T. Almaktoom, Department of Operations and Supply Chain Management, Effat University, PO Box 34689, Jeddah 21478, Kingdom of Saudi Arabia

ID 239 Assessment of Factors Leading to Infrastructure Projects Delays and Failures in Thulamela Local Municipality, South Africa
Ravuhali Thilivhali, Student of Urban and regional planning, Faculty of Science, Engineering and Agriculture, University of Venda, Thohoyandou, Limpopo, South Africa
Brightnes Risimati, Lecturer in Department of Urban and Regional Planning, Faculty of Science, Engineering and Agriculture, University of Venda, Thohoyandou, Limpopo, South Africa
Trynos Gumbo, Professor and Head of the Department of Urban and Regional Planning, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, Gauteng, South Africa

ID 309 Review Paper on Probabilities of conditionals
Md. Jawad Rahman Chowdhury, Student, Department of Mechanical & Production Engineering, Islamic University of Technology, Dhaka, Bangladesh

ID 317 Indicator Algorithm Performance for Modeling Conditional Probability Distribution Functions
Farhan Hassan Ifti, Department: Mechanical & Production Engineering, Islamic University of Technology, Bangladesh

ID 576 Location-Allocation Optimization of Wi-Fi Access Points at Gaziantep University Campus
Lana Manla Ali and Ola Khanji, Student of Industrial Engineering, Gaziantep University, Gaziantep, 27310, Turkey
Eren Özceylan, Associate Professor of Industrial Engineering, Gaziantep University, Gaziantep, Turkey

ID 591 Wake Up or Stay Up: The Correlation of Sleep Quality and Task Workload to Academic Performance of UST Graduate and Undergraduate Students During the COVID-19 Pandemic
Raymond Izaac M. Casaclang, Jose Antonio Pascual L. Manahan, Dana Coleen A. Pineda and Niccolo Maurice N. Villafior, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines
Damirson A. Co, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

ID 667 Performance Analysis of Hospitals Departments by Using Data Envelopment Analysis
Ayat Al-Zaqqah, Fatima Al-Musaed, Fatima Al-Neamah, Kawthar Mohammad, Mariam Al-Mutairi and Recep Kizilaslan, College of Engineering and Technology, American University of the Middle East, Egaila 54200, Kuwait

2:00 – 3:45 pm, MONDAY

Supply Chain and Logistics Competition – Part 2

Virtual Room 2

Session Chair: Judging Committee Chair

ID 548 Soft Drink Supply Chain Sustainability in Kuwait
Kawthar Fadhlullah, Souad Alothman, Fayi Malallah, Daniah Albahouh, Fay AlSanae and Abdullah S. Karamanf, College of Engineering and Technology, American University of the Middle East, Kuwait

ID 458 Blockchain technology solution for financial inclusion of African small farmers: A systematic literature review
Yassine Elkoraichi, Department of Engineering Sciences, EST Safi, Cadi Ayyad University, Marrakech, Morocco

ID 541 Impact of the use of biogas in rural communities in Zimbabwe
Everton Jaison, Agritex. Ministry of Lands Zimbabwe, Zimbabwe

ID 385 Master Production Scheduling Requirements and Blood Transfusion Sustainability. Using SEM Approach
Kaconco James, Dr. Nabuuma Betty and Prof. Kirabira John Baptist, Mechanical engineering Department, School of Engineering, College of Engineering, Design, Art and Technology (CEDAT), Makerere University, P.O. Box 7062, Kampala, Uganda
Dr. Mugarura Jude Thaddeo, College of Business and Management Sciences (COBAMS), Makerere University, P.O. Box 7062, Kampala, Uganda

ID 331 A Framework for Data-Driven Decision-Making for Cost Analysis of Implementing IoT in Warehouses
Razan Al Khambashi, Fatema Al Jadidi, Wasan Al Siyabi and Sharifa Al Riyami, Undergraduate Students of Industrial Engineering, Mechanical and Industrial Engineering Department, Sultan Qaboos University, Muscat, Oman
Nasr Al Hinai, Associate Professor and the Head of Mechanical and Industrial Engineering Department, Sultan Qaboos University, Muscat, Oman
Niyazi Onur Bakır, Associate Professor of Industrial Engineering, Sultan Qaboos University, Muscat, Oman

ID 322 Developing a Smart Home Energy Management System and Economic Feasibility Analysis of Residential Renewable Generators in Oman
Rayyan Al Kharusi, Shahad Al Shariyani, Al Rayyan Al Rashdi, Aisha Al Khalili and Hakan Gultekin, Sutan Qaboos University, Oman

ID 590 Electric vehicle routing problem with time windows and battery swapping stations in goods distribution using tabu search
Tito Bisma May Willis & Ahmad Rusdiansyah, Industrial and Systems Engineering Department, Faculty of Industrial Technology and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

2:00 – 3:45 pm, MONDAY**Logistics****Virtual Room 3**

Session Chair: Jose Miguel Cockburn, Department of Engineering and Architecture, University of Lima, Lima, Peru

ID 217 A Genetic Algorithm Approach for Waste Collection Using Multi-Trip Multi-Period Capacitated Vehicle Routing Problem with Time Windows (MCVRPTW)

Nur Layli Rachmawati, Yelita Anggiane Iskandar, Dian Permana Putri and Mirna Lusiani, Department of Logistics Engineering, Universitas Pertamina, South Jakarta, DKI Jakarta, Indonesia

ID 2 An Empirical Investigation of Factors Affecting Humanitarian Logistics Operations: The Case of Palestine

Rafat Mahmoud Kittaneh, Executive Engineer, Institutional Development Unit, An-Najah National University, Nablus, West Bank, Palestine
Ayham A.M. Jaaron, Senior Lecturer in Business and Management, School of Leadership, Management and Marketing, The Centre for Enterprise and Innovation, Leicester Castle Business School, De Montfort University, Leicester, LE2 7BY, United Kingdom

ID 41 Analysis of the Interaction between Port Disruptions: Case Study in the Port Area of Barranquilla, Colombia

Fernando Gonzalez Solano, Doctoral Student in Industrial Engineering, Universidad del Norte, Barranquilla, Colombia
Daniel Romero Rodriguez and Gina Galindo Pacheco, Professors of the Department of Industrial Engineering, Universidad del Norte, Barranquilla, Colombia

ID 206 Critical Success Factors in Digital Transformation for Logistics Service Providers: A Grey DEMATEL approach

Mingkwon Netthanomsak, Detcharat Sumrit and Assadej Vanichchinchai, The Cluster of Logistics and Rail Engineering, Faculty of Engineering, Mahidol University, Nakhon Pathom, Thailand

ID 214 Determining the Indicators for Selecting Container Shipping Line Companies using Analytical Hierarchy Process

Armand Omar Moeis and Adithra R. H. Arrasyad, Assistant Professor and Researcher of Industrial Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia

ID 101 Implementation of Improvement Measures for the Refusal % reduction in Distribution Centers of a Peruvian Brewing Company

Jose Miguel Cockburn and Alvaro Oyague, Department of Engineering and Architecture, University of Lima, Lima, Peru

2:00 – 3:45 pm, MONDAY**Business Management****Virtual Room 4**

Session Chair: W.D. Lin, Singapore Institute of Technology, Singapore

ID 292 Design and Facility Layout of Traditional Boatbuilding Based on the Regression Model

Yugowati Praharsi and Devina Puspita Sari, Business Management, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia
Muhammad Abu Jami'in, Electrical Engineering Department, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia

ID 109 Design, Development, Prototyping, and Pilot-Testing of An Ergonomic Farmer's Chair

Geraldine G. Nerona, Professor of Industrial Engineering, School of Engineering and Architecture, Saint Louis University, Baguio City, Philippines
Michelle C. Adiwang, Professor of Industrial Engineering, School of Engineering and Architecture, Saint Louis University, Baguio City, Philippines
Maya Kayne S. Lagrana, Production Planning Analyst, Texas Instruments Philippines Inc., Baguio City, Philippines
Jezel Jade G. Gumallaoi, BS Industrial Engineering Batch 2022, Saint Louis University, Baguio City, Philippines
Czarina Mae C. Grospe, BS Industrial Engineering Batch 2022, Saint Louis University, Baguio City, Philippines

ID 198 Decision Making on Control & Monitoring Equipment Replacement with Sustainability Consideration

Hafizh Rifqi and Rahmat Nurcahyo, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 171 Comparative Analysis of Combustion and Electric Motorcycle as an Alternative Online-Based Transportation in Indonesia

Eileen Onggaria, Fajar Marhaendra, Ilham Nur Pratama, Olivia Elisabeth Manurung, Arief Nurdini and Rahmat Nurcahyo, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 469 Characteristics of Hemorrhoids Patients Receiving Jamu based on Jamu Registry

Aris Yulianto, Student at ASEAN Institute for Health Development, Mahidol University, Nakhon Pathom 73170 Thailand
Researcher of Research Center for Preclinical and Clinical Medicine, National Research and Innovation Agency, Indonesia
Lucie Widowati, Researcher of Research Center for Pharmaceutical Ingredients and Traditional Medicine, National Research and Innovation Agency, Indonesia
Delima, Nurhayati and Sundari Wirasmi, Researcher of Research Center for Preclinical and Clinical Medicine, National Research and Innovation Agency, Indonesia
Novia Susianti, Researcher of Research Center for Public Health and Nutrition, National Research and Innovation Agency, Republic of Indonesia

ID 460 Digital Supply Chain Curriculum Development to Support the Talent Needs of Supply Chain 4.0

W.D. Lin, Singapore Institute of Technology, Singapore

2:00 – 3:45 pm, MONDAY**Project Management****Virtual Room 5**

Session Chair: Gloria Mafedile Mokoena, University of Johannesburg, Johannesburg, South Africa

ID 190 Capabilities Management for Project-Based Organizations: An Ontological Model Proposal

Edison Atencio and Mauro Mancini, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Via Lambruschini 4b, Bovis, 20156 Milan, Italy

Edison Atencio and Guillermo Bustos, Department of Industrial Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2241, Valparaíso, Chile
 Edison Atencio, Department of Civil Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2147, 2340000, Valparaíso, Chile

ID 191 Enterprise Architecture modelling for PBO

Edison Atencio and Mauro Mancini, Department of Management, Economics and Industrial Engineering, Politecnico di Milano, Via Lambruschini 4b, Bovisio, 20156 Milan, Italy

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

Edison Atencio, Department of Civil Engineering, Pontificia Universidad Católica de Valparaíso, Av. Brasil 2147, 2340000, Valparaíso, Chile

ID 167 Critical Success Factor at Fertilizer's EPC Project in Indonesia - A Literature Review

Sarwani, Faculty of Interdisciplinary Management School of Technology, Sepuluh Nopember Institute of Technology, Surabaya, 60111, Indonesia

Imam Baihaqi, Faculty of Creative Design and Digital Business, Sepuluh Nopember Institute of Technology, Surabaya, 60111, Indonesia

Christiono Utomo, Faculty of Civil Engineering, Sepuluh Nopember Institute of Technology, Surabaya, 60111, Indonesia

ID 199 Probabilistic Project Management Based on Earned Value Management

Lady Vanessa Rangel and Cristina Isabel Aguilar, Industrial Engineering Department, Universidad del Valle, Cali, Colombia

ID 14 The Application of Project Management Principles During the Construction Phase of a Parking Lot Replacement Project

Niamat Ullah Ibne Hossain, Alexandr M. Sokolov, Saroj Sapkota and Brian Merrill, Engineering Management and Construction Management College of Engineering and Computer Science Arkansas State University, State University, AR 72467, USA

ID 144 Assessing Project Cost Planning in The Construction Industry

Gloria Mafedile Mokoena, Bheki B.S. Makhanya and Hannelie Nel, Postgraduate School Engineering management, University of Johannesburg, Johannesburg, South Africa

2:00 – 3:45 pm, MONDAY

OM

Virtual Room 6

Session Chair: Thakaramahlaha Lehohla, Faculty of Engineering and the Built Environment, University of Witwatersrand, South Africa

ID 336 Assessing the Effectiveness of an Advertising Campaign on Instagram Based on Sentiment Analysis: Case of CSR Campaign

Ali Ranjbar Ferdos, Master's Graduate of Information Technology Management – Advanced Information Systems,

Mohammad Taghi Taghavifard, Associate Professor of Allameh Tabataba'i university, Tehran, Tehran Province

Iman Raeesi Vanani, Associate Professor of Allameh Tabataba'i university, Tehran, Tehran Province

Allameh Tabataba'i University, Faculty of Management and Accounting, Tehran, Tehran Province

ID 107 Benefits of the Expanded Public Works Programme in South Africa: A Direct Stakeholder's Perception

Olusegun A. Oguntona, Department of Built Environment, Faculty of Engineering and Technology, Walter Sisulu University, Butterworth, South Africa

Opeoluwa I. Akinradewo, Boitumelo Kgoetyane and Clinton O. Aigbavboa, cidb centre of Excellence, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

ID 436 Communication Factors That Enable Effective Project Outcomes in The South African Construction Industry

Michelle Nhlalala Liphadzi and Murendeni Liphadzi, Department of Construction Management & Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

ID 189 Construction Material Waste Causes and their Contribution Levels: A Case Study of Construction Projects in Abuja, Nigeria

Chukwumaobi Ndukwe Ibe, Social and Economic Research Institute, Department of Natural and Built Environment, Sheffield Hallam University Sheffield, England

ID 544 Control System Optimisation of an Autonomous Adhesion Force for Aerodynamic Climbing Robot

Rujeko Masiike, PhD Scholar, Industrial and Manufacturing Engineering Department, Harare Institute of Technology, Harare, Zimbabwe

Dr. Karamjit Kaur, Department of Electronics and Communication, Amity University, Haryana, India

Dr. Rajesh Arora, Mechanical Engineering Department, Amity University, Haryana, India

Dr. S.N. Sridhara, Vice Chancellor, HITS University, Chennai, India

ID 478 Deep learning based 3d segmentation of CT and MR of human body

Adriano Giuseppe De Rosa, Leonardo Frizziero, Giampiero Donnici and Alfredo Liverani, Unibo, Italy

ID 137 Embracing Total Quality Management in Manufacturing Value Chains for Global Competitiveness Post Covid Economy

Thakaramahlaha Lehohla, Faculty of Engineering and the Built Environment, University of Witwatersrand, South Africa

2:00 – 3:45 pm, MONDAY

Business Management

Virtual Room 7

Session Chair: Burçak Konen, Eskisehir Technical University, Iki Eylul Campus, Eskisehir, Turkey

ID 379 Embracing Total Quality Management in Manufacturing Value Chains for Global Competitiveness Post-Covid Economy

Dr Thakaramahlaha Lehohla, Competence Research Lead, Senior Lecture, Wits Mining Institute, Faculty of Engineering and the Built Environment, University of Witwatersrand, South Africa

ID 177 Enhanced Automated Fuel Pump System Security with Raspberry Pi

Amo Samuel Blay, Student, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Michael Bennett Mathias, Senior Lecturer Department of Electrical/Electronic Engineering, Accra Technical University, Accra, Ghana

Dr. Kwame Oteng Gyasi, Lecturer Department of Telecommunication Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

ID 262 Factors Affecting Residential, Commercial and Industrial Energy Consumption

Huseyin Biyikci, Industrial Engineering PhD Programme, Institute of Pure and Applied Sciences, Marmara University, Istanbul, Turkey
 Merve Er, Assistant Professor in Industrial Engineering, Faculty of Engineering, Department of Industrial Engineering, Marmara University
 Istanbul, Turkey

ID 178 Improved Agriculture Monitoring System Using Wireless Sensors

Amo Samuel Blay, Student, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana
 Dr. Sani Mubarak Ellis, Senior Lecturer Department of Telecommunication Engineering, Kwame Nkrumah University of Science and Technology
 Kumasi, Ghana
 Michael Bennett Mathias, Senior Lecturer Department of Electrical/Electronic Engineering, Accra Technical University, Accra, Ghana

ID 272 Incremental Weak Subgradient Method for Large Scale Machine Learning Problems

Gulcin Dinc Yalcin, Eskisehir Technical University, Iki Eylul Campus, Engineering Faculty, Department of Industrial Engineering, Eskisehir, Turkey

ID 163 South African Rail Infrastructure Maintenance Optimization

Lekhoromo J Boye, Bheki B. S. Makhanya, Jan-Harm. C. Pretorius and Hannelie Nel, Postgraduate School of Engineering Management, University
 of Johannesburg, Johannesburg, South Africa

ID 276 Multi-Criteria Decision Making in the Patent Process: Application in an R&D Firm

Burçak Konen, Nida Nur Uzel and Dilek Celik, Eskisehir Technical University, Iki Eylul Campus, Engineering Faculty, Department of Industrial
 Engineering, Eskisehir, Turkey
 Gulcin Dinc Yalcin, Eskisehir Technical University, Iki Eylul Campus, Engineering Faculty, Department of Industrial Engineering, Eskisehir, Turkey
 Cansu Calis, MODOYA INC., Eskisehir, Turkey

March 6, 2023 (Monday) - Session: 4:00 – 5:45 pm

4:00 – 5:45 pm, MONDAY**Undergraduate Research Competition****Virtual Room 1**

Session Chair: Judging Committee Chair

ID 521 Optimization of Perintis Shipping Routes in The South Sulawesi-Nusa Tenggara Islands Using Density Based Spatial Clustering of Applications with Noise and Travelling Salesman Problem

Armand Omar Moeis and Muhammad Ariqulhakim, Assistant Professor and Researcher of Industrial Engineering, Universitas Indonesia, Depok,
 Jawa Barat, Indonesia

ID 505 Establishing a Predictive Model on Internet Service Provider Preference of Work-From-Home (WFH) Employees Based on Customer Satisfaction on The Leading Internet Service Providers

John Depp C. Adorna, Cheska Nicole A. Cuevas, Eunice Jessica M. Fernandez, Zaver JB S. Pascual and Carlos Ignacio Jr. P. Lugay, Department
 of Industrial Engineering, University of Santo Tomas, España Blvd, Sampaloc, Manila, 1008 Metro Manila, Philippines

ID 387 Energy conservation by waste materials

Nimra Aziz, Punjab University Lahore, Pakistan

ID 403 Natural gas power plant boiler

Nhlanzeko Phungula, University of Johannesburg, South Africa

ID 242 Predictive Modeling on Apparel Industry Productivity: A Machine Learning Approach to a Comparative Performance Analysis

Tanvir Ahmed and Ishmam Tasnim, Industrial and Production Engineering, Bangladesh University of Engineering Technology (BUET), Bangladesh

ID 668 Managing Drug Shortages in Healthcare - A Proposed Mathematical Response Strategies Model for Critical Supply Chain

Lujain Al-Ameri, Munera Bokubar, Mariam Salem, Moudi Al-Ali, Nour Alshami and Recep Kizilaslan, College of Engineering and Technology,
 American University of the Middle East, Egaila 54200, Kuwait

4:00 – 5:45 pm, MONDAY**Master Thesis Competition****Virtual Room 2**

Session Chair: Judging Committee Chair

ID 77 Analysis of Autonomous Rail Rapid Transit (ART) Planning for Congestion and Pollution Management: Surabaya City Case Study

Sarah Rachel and Erwin Widodo, Industrial and Systems Engineering, Sepuluh Nopember Institute of Technology (ITS), Surabaya, Indonesian

ID 503 Analysis on Driving Safety of Syiah Kuala University Students of Human and Vehicle Factors

Suci Qurratul Aini, Master of Civil Engineering, Faculty of Engineering, Universitas Syiah Kuala, Banda Aceh, Indonesia
 Yusria Darna, Renni Anggraini and Sugiarto, Department of Civil Engineering, Faculty of Engineering, Syiah Kuala University, Banda Aceh,
 Indonesia

ID 145 Effectiveness of Reliability and Asset Lifecycle Management Practices in Railway Traction Substation

Thabo Madonsela, Bheki Makhanya and Jan-Ham Pretorius, Postgraduate School of Engineering Management, University of Johannesburg
 Johannesburg, South Africa

ID 518 Improving Machine Design Using Value Engineering and DFMA Method Approach

Handa Rivaldi Husal, Postgraduate of Industrial Engineering Student, University of Sumatra Utara, Medan, Indonesia
 Rosnani Ginting, Head of Postgraduate Industrial Engineering Program, Faculty of Engineering, University of Sumatera Utara, Medan, Indonesia
 Anizar, Secretary of Doctoral Industrial Engineering Program, Faculty of Engineering, University of Sumatera Utara, Medan, Indonesia

ID 323 Integrated Team Planning and Maintenance Scheduling for Geographically Distributed Assets

Aza Al Riyami, Hakan Gultekin, and Emad Summad, Department of Mechanical and Industrial Engineering, College of Engineering, Sultan Qaboos University, Muscat, Oman

ID 511 Motorcyclist Driving Behavior Analysis

Mutia Irani, Postgraduate of Industrial Engineering Student, University of North Sumatra, Medan, Indonesia
 Rahim Matondang, Professor of Industrial Engineering, Faculty of Engineering, University of North Sumatra, Medan, Indonesia
 Listiani Nurul Huda, Lecturer of Industrial Engineering, Faculty of Engineering, University of North Sumatra, Medan, Indonesia

ID 271 Spatial planning readiness in the transition towards electric vehicles within the city of Tshwane

Nkopodi Mphahlele, University of Johannesburg, South Africa

ID 609 The Challenge Of Homelessness And Its Implications To City Planning: A Case Study Of Doornfontein, City Of Johannesburg

Fikile Ayanda Poopedi, Student at University of Johannesburg, South Africa
 Trynos Gumbo, University of Johannesburg, South Africa
 Mueletshedzi Helen Phosho, University of Johannesburg, South Africa
 George Onatu, University of Johannesburg, South Africa

ID 619 A Model of Car Ownership in Aceh Province Using a Spatial Regression Approach

Mulyadi Wisdom, Master of Civil Engineering, Faculty of Engineering, Shia Kuala University, Banda Aceh, Indonesia
 Renni Angraini, Department of Civil Engineering, Faculty of Engineering, Syiah Kuala University, Banda Aceh

4:00 – 5:45 pm, MONDAY**Engineering Management****Virtual Room 3**

Session Chair: Alok Yadav, National Institute of Technology (NIT), Jalandhar, India

ID 560 Productivity of Academic Personnel across universities in implementing the Tridharma PT and supporting the Indonesian Government's MBKM program

Sri Wiwoho Mudjanarko, Departement of Civil Engineering, Narotama University, Surabaya, 60117, Indonesia
 Ninis Trisyani, Departement of Fishery, Faculty of Marine Technology and Science, UHT, Surabaya, Indonesia
 Agus Budianto, Departement of Chemical, Institut Teknologi Adhi Tama Surabaya, Indonesia
 I Putu Artaya, Departement of Management, Narotama University, Surabaya, Indonesia
 Nawir Rasidi, Departement of Civil Engineering, Politeknik Negeri Malang (Polinema), Malang, 65141, Indonesia
 Zulkifli Iubis, Departement of Civil Engineering, Universitas Islam Lamongan, East Java, Indonesia
 Dadang Supriyatno, Departement of Civil Engineering, Universitas Negeri Surabaya, Indonesia
 Hendramawat Aski Safarizki, Veteran Bangun Nusantara University, Sukoharjo, Indonesia
 Rizal Bahaswan, Departement of Civil Engineering, Narotama University, Surabaya, 60117, Indonesia
 Mayastuti, Student Doktorat, Management, Airlangga University
 Mohd Haziman Wan Ibrahim, Department Jabatan Kejuruteraan Awam, Universiti Tun Hussein Onn Malaysia, Malaysia
 Mohd Fadzil Bin Arshad, Departement of Civil Engineering, Universiti Teknologi Mara, Malaysia
 Firdaus Pratama Wiwoho, Faculty of Civil and Environmental Engineering's Master Program, Institut Teknologi Bandung, Bandung, Indonesia

ID 573 Obstacle Factors of Research Product Commercialization in University

P Fithri, Doctoral Study Program in Management, Faculty of Economics, Universitas Andalas, Padang, Indonesia
 A Hasan, Department of Industrial Engineering Faculty of Engineering, Universitas Andalas, Padang, Indonesia
 Syafrizal and D Games, Department of Management, Faculty of Economic, Universitas Andalas, Padang, Indonesia

ID 574 The Influence of Instagram Marketing on Customer Purchase Intention through Customer Inspiration (Study on Telkomsel Postpaid)

Indrawati, An Associate Professor in Marketing, Faculty of Economy & Business, Telkom University, Bandung, Indonesia
 Zenia Rahmah, An Associate Professor of Marketing & Consumer Studies, Faculty of Economy & Business, Telkom University Bandung, Indonesia

ID 582 Detection of Lung Cancer with Enhanced Feed Forward Backpropagation Artificial Neural Networks

Volkan Çetin, Hacı Hüsnü Yumrukaya and Çiğdem Bakır, MSc of Student Computer Engineering, MSc of Student Computer Engineering Assistant Professor Doctor of Computer Engineering, Computer Engineering, Kutahya Dumlupınar University, Kutahya, Turkey

ID 572 Proposing Generic Knowledge Management Strategy for Private Universities in Addis Ababa Ethiopia

Almaz belhu Hunde, Cyber security Specialist, Information security division, Ethio telecom, Addis Ababa, Ethiopia
 Hailemariam Admasu Gebeyehu, Associate Researcher of Data Management and Systems Administration, Space Science and Geospatial Institute Addis Ababa, Ethiopia

ID 580 Role of Industry 4.0 Towards Net Zero Manufacturing: A Systematic Review and Future Research Directions

Alok Yadav, Ph.D. Research Scholar of Industrial and Production Engineering Department, National Institute of Technology (NIT), Jalandhar, India
 Rajiv Kumar Garg and Anish Sachdeva, Professor of Industrial and Production Engineering Department, National Institute of Technology (NIT), Jalandhar, India

4:00 – 5:45 pm, MONDAY**Business Management****Virtual Room 4**

Session Chair: Hadid Heidari, Department of Management, Islamic Azad University- Central Tehran Branch, Tehran, Iran

ID 399 A Study on Customer Satisfaction of Buying Electronic Goods Online

Naveen Joshi, Amrita School of Business, Bangalore, India
 Maria Sabastin Sagayam, Amrita School of Business, Bangalore, India

ID 293 Accuracy of Prediction Models on Banks' Credit Risk Utilizing Multivariate and Probit Regression Analysis

Abbas Mahmoudabadi, Director of Master Program in Industrial Engineering, Dept. of Industrial Engineering, MehrAstan University, Guilan, Iran
 Sanaz Esmaeili Rudabadi, Graduated Student, Department of Industrial Engineering, MehrAstan University, Guilan, Iran
 Fatemeh Pourhossein Ghazimahalleh, Graduated Student, Department of Information & Commerce Technology, MehrAstan University, Guilan, Iran

ID 551 Analysis of electronic marketing strategy in social network Via multi-criteria methods (MCDM)

Hadid Heidari, Department of Management, Islamic Azad University- Central Tehran Branch, Tehran, Iran
 Soma Gholamveisy, Department of industrial engineering, Islamic Azad University of south Tehran branch, Tehran, Iran

ID 79 Analysis of the Adoption Decisions of the Components of the Internet of Things in the Ready-Made Garment Industry

Md Zisanul Haque Bhuiyan, Department of Industrial and Production Engineering (IPE), Bangladesh University of Engineering & Technology (BUET) Dhaka-1000, Bangladesh
 A. B. M. Mainul Bari, Ph.D., Department of Industrial and Production Engineering (IPE), Bangladesh University of Engineering & Technology (BUET) Dhaka-1000, Bangladesh

ID 431 Challenges Faced by School Teachers for Online Teaching

Jithin Sunil and M. Suresh, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

ID 183 A Systemic Framework Analysis for Designing Financial Model in Nuclear Cogeneration Investment for Low-Carbon Emission Hydrogen Production

Hairiza and Akhmad Hidayatno, Industrial Engineering Department, University of Indonesia, Depok, Indonesia

ID 437 Economic Evaluation of Solar Energy Use Using the PSO Algorithm

Soma Gholamveisy, Department of industrial engineering, Islamic Azad University of south Tehran branch, Tehran, Iran
 Hadid Heidari, Department of Management, Islamic Azad University- Central Tehran Branch, Tehran, Iran

4:00 – 5:45 pm, MONDAY**Operations Management****Virtual Room 5**

Session Chair: Kemlall R. Ramdass, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa

ID 66 A Mathematical Model for the Assembly Job Shop Scheduling Problem with Overtime: A Case Study in Construction Machinery Industry

Mustafa Üstünçelik, Hüseyin Tunç and Çağrı Koç, Department of Business Administration, Social Sciences University of Ankara, Ulus, Altindag/Ankara, Turkey

ID 264 Aggregate Production Planning with Organizational Learning and Social Sustainability Considerations – Current Gaps and Future Opportunities

Mostafa Tarek, Ahmad E. Elhabashy, Hadi Fors and M. Hamdy Elwany, Production Engineering Department, Alexandria University, Alexandria 21544, Egypt

ID 85 Dynamic Lot Sizing Model for Perishable Product with Backorder and Quality Deterioration

Dira Aulia and Niniet Indah Arvitrida, Department of Industrial and Systems Engineering, Faculty of Industrial Technology and Systems Engineering Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia

ID 286 Effect of Spot-Welding Parameters on the Strength of the Weld of Metal Sheets

Rashed Khader, Anasmon Valappil, Mohamed Murad and Jabr Abu Qudeiri, College of Engineering, Mechanical Engineering Department UAE University, UAE

ID 359 Fifth Generation Wireless Network Usage in the Operations of the Food Industry: Barriers and Benefits

Adetola Adeniyi, Master's candidate, cidb Centre of Excellence, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa
 Clinton Aigbavboa, Professor, cidb Centre of Excellence, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa
 Nita Sukdeo, Professor, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa
 Khathutshelo Mushavhanamadi, Senior Lecturer, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

ID 267 Optimizing Inventory Control in A Microbiology Laboratory to Provide High Quality Patient Results

Kemlall R. Ramdass, Professor of Industrial Engineering, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa
 Mulde van der Wateren, Student of Industrial Engineering, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa
 Bongumenzi T Mncwango, Lecturer of Industrial Engineering, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

ID 269 The use of Productivity improvement tools at a mineral processing plant

Kemlall R. Ramdass, Professor of Industrial Engineering, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa
 Nobert Makwanda, Student of Industrial Engineering, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa
 Bongumenzi T Mncwango, Lecturer of Industrial Engineering, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

4:00 – 6:45 pm, MONDAY**Machine Learning and Business Analytics****Virtual Room 6**

Session Chair: Nani Kurniati, Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, 60111, Indonesia

ID 375 Carbon Footprint Prediction in the Philippines Using Time Series in Data Science

Sweethy Jhoden Lim and Ma. Mica Ella Cortez, College of Computer Studies, Angeles University Foundation, Pampanga, Philippines
 Dr. Rosanna Esquivel, Professor of Computer Science, College of Computer Studies Program Chair, Angeles University Foundation, Pampanga, Philippines

ID 313 Machine Learning in the Banking Sector

Hiran Kumar M, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India
 Megavarshini G, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India
 Aswathy Sreenivasan, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India
 M. Suresh, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

ID 414 Usage of Artificial Intelligence in mitigating

Tshepo Mabotja, Mancosa, South Africa

ID 71 Adoption of Automation as a Determinant of the Physical Footprint in the South African Banking Institutions

Save Akilimalissiga, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa
 Nita Sukdeo, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa
 Sambil Mukwakungu, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

ID 84 Towards an integrated digital marketing model

Leila BAKHTI, PhD Student., MADEO Laboratory, High School of Technology, Med First University, Morocco
 Professor Afaf Benghir, MADEO Laboratory, High School of Technology, Med First University, Morocco
 Professor ERRAMDANI Mohammed, MATSI Laboratory, High School of Technology, Med First University, Morocco

ID 58 Customer Churn Prediction using Predictive Analytics: Basis for the Formulation of Customer Retention. Strategy in the Context of Web-based Collaboration Platform

Neil T. Awit, College of Business Administration, Lyceum of the Philippines University, Manila, Philippines
 Ramon M. Marticio, Higher Education Department, University of Santo Tomas- Angelicum College, Quezon City, Philippines

ID 698 Optimal Availability for Equipment under Imperfect Maintenance by Considering Threshold Reliability

Nani Kurniati and Yoga Aulia Sulaiman, Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

4:00 – 6:45 pm, MONDAY**Industry 4.0****Virtual Room 7**

Session Chair: Sotiris P. Gayialis, National Technical University of Athens, Zografos, 15780, Greece

ID 30 Examining the Determinants of Continuance Intention to use Online Food Delivery Service Applications

Lianna Wijaya, Management Department, Faculty of Binus Online Learning, Bina Nusantara University, Jakarta, Indonesia
 Lourdes Lasian and Noe Enriquez, Industrial Engineering Department, College of Engineering, Adamson University, Manila, Philippines

ID 475 Camera Vision Inspection with Machine Learning

Pantiva Wisitsayavorakun, Institute of Engineering, Suranaree University of Technology, Thailand
 Assistant Professor Dr. Nara Samattapapong, Department of Industrial Engineering, Suranaree University of Technology, Thailand

ID 455 Essential Skills Towards Fostering Innovation in The Built Environment: A Theoretical SDG 9 Outlook

Murendeni Liphadzi and Yamkela Yeko, Department of Construction Management & Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

ID 474 The Conceptual Design and Development Processes of an Autonomous Mobile Robot: An Application for Intra-logistics Environment

Dilara Muhacir and Muhammed İdris 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 450 Towards a better understanding of Quality 4.0

Lahmine Souad, Industrial Engineer, Innovative Technologies Laboratory, ENSA, SMBA University, Fez, Morocco
 Fatima Bennouna, Professor of Industrial Engineering, Innovative Technologies Laboratory, ENSA, SMBA University, Fez, Morocco

ID 361 Image Comparison for Finding the Lowest Priced Unique Commodities in an Online Retail Store

Miguel Nicolas Alcantara, Stefen Genoa Decena and John Lenard Guevarra, College of Computer Studies, Angeles University Foundation Angeles City, Philippines
 Ray Nicolas, College of Computer Studies, Faculty, Angeles University Foundation, Angeles City, Philippines

ID 88 Implementing a Wine Traceability System as an Ethereum Distributed Application

Sotiris P. Gayialis, Evripidis P. Kechagias and Georgios A. Papadopoulos, Sector of Industrial Management and Operational Research, School of Mechanical Engineering National Technical University of Athens, Zografos, 15780, Greece

March 6, 2023 (Monday) - Session: 6:00 – 7:45 pm**6:00 – 7:45 pm, MONDAY****Undergraduate Research Competition****Virtual Room 1**

Session Chair: Judging Committee Chair

ID 110 A Comparative Analysis on the Effectiveness and Cost of Homemade Calamansi (Citrofortunella microcarpa)-Vinegar Solution and a Commercially-Known Fabric Softener

Renz Martin Barrozo, Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines
 Andrea Lorize D. Mendoza, Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines

Vinz Adrienne Oliveros, Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines
 Josiah Victor Ramos, Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines
 Maximillian Yleandre Yanez, Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines
 Carlos Ignacio P. Lugay Jr., Phd, Pie, Asean Engr., Assoc. Prof., Department of Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines

ID 504 A SERVQUAL Approach to Improving the Railway Experience amidst Pandemic using Multi-Criteria Decision Making

Engr. Gabriel C. Bucu, Professor of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Manila, Philippines
 Xinjin Kendrick Araos, Ralph Erickson Balbin, Arjay Paul Dequito and Marcus Jericho Pineda, Industrial Engineering Department, Faculty of Engineering, University of Santo Tomas, Manila, Philippines

ID 439 Perintis Shipping Route Optimization in Riau Islands Region Using Density Based Spatial Clustering of Applications with Noise and the Traveling Salesman Problem

Armand Omar Moeis and Annan Mikail Ramadhan, Assistant Professor and Researcher of Industrial Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia

ID 525 Determining Indicators of International Container Terminal Selection Using the Analytical Hierarchical Process

Armand Omar Moeis and Owen Joseph Al Makmur, Assistant Professor and researcher of Industrial Engineering, Universitas Indonesia, Depok, Jawa Barat, Indonesia

ID 184 Efficiency Improvement of Squirrel Cage Induction Motor by Rotor Slot Designs

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

ID 169 Electromagnetic Performance Analysis of Outer Halbach Magnet Rotor Brushless DC Motor 150kW

Bui Minh Dinh, School of Electrical and Electronics Engineering, Hanoi University of Science and Technology, Vietnam
 Dinh Hai Linh, Vietnam Forest University, Vietnam

ID 693 An Undergraduate Research Study on Comparative Analysis between Light Dependent Resistor (LDR)- Based Light System and a Commercially Available Automatic Solar Powered Light System In The Area Of Barangay Payatas (A)

Ian Paolo Bautista, Eduard Joseph Saroca, Teofilo Jr. Tambago and Alessandro Victorio, University of Santo Tomas, Philippines

6:00 – 7:45 pm, MONDAY

Graduate Student Paper Competition

Virtual Room 2

Session Chair: Judging Committee Chair

ID 135 Application of seismic facies and attributes in delineating hydrocarbon prospective zones in the “Ebouei field”, Offshore Niger Delta Basin

Okeke, S. E., 1 Didi, C. N., 1 Akpunonu, E. O., 2 Nwobi, N. O., 1 Okafor, U. I., 2 Okpara, O. A., 2 Okeke, C. O. 2
 Department of Ecology and Natural Resources Management, Peoples' Friendship University of Russia (RUDN University) 1
 Department of Geological Sciences, Nnamdi Azikiwe University, Awka

ID 278 Determining the root causes of boxes stacking strength failure and find possible solutions

Kemlall R. Ramdass, Professor of Industrial Engineering, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa
 Michack Netshifheffe, Student of Industrial Engineering, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa
 Bongumenzi T Mncwango, Lecturer of Industrial Engineering, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

ID 327 Improvement of Molding and Frame Design on Hydraulic Paving Block Machine Using Design for Manufacture and Assembly Method

Taufan Tama Gusman, Rayhan Novri, Handa Rivaldi Husal, Shishilya Yazid and Siti Nur Maulidina, Postgraduate of Industrial Engineering Student University of North Sumatra, Medan, Indonesia

ID 324 Improvement of The Procurement Process

Maha H. Fetais, Fatima A. Al-Thani, Shahira O. Suliman and Galal M. Abdella, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar

ID 245 Industry 4.0 Data – A Proposed Framework for Identifying High Value Data Solutions

Thomas Jones, Doctoral Candidate, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, USA
 Ahmad K. Elshennawy, Professor, Department of Industrial Engineering and Management Systems, University of Central Florida, Orlando, USA

ID 348 Optimization Strategy for User Acquisition of Financial Digital Apps in Indonesia Largest MSMEs Bank

Kevin Prasetyo and Yenita, Faculty of Economics and Business, Universitas Tarumanagara, Jakarta, 11440, Indonesia

ID 268 The Evaluation of Station Workload Through the Application of Work-Study Principles: A Case Study in The Automotive Industry

Kemlall R. Ramdass, Professor of Industrial Engineering, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa
 Fulufhelo P. Doyoyo, Student of Industrial Engineering, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa
 Bongumenzi T Mncwango, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

ID 530 US Manufacturing: History and Current Status

Monisa Ansha and Pawan Bhandari, Department of Automotive and Manufacturing Engineering Technology, Minnesota State University, Mankato, MN 56001, USA

ID 607 Economic and Long-term Impacts of Free Trade Agreements (FTAs) with the U.S.

Naim Islam and Pawan Bhandari, Department of Automotive and Manufacturing Engineering Technology, Minnesota State University, Mankato, MN 56001, USA

6:00 – 7:45 pm, MONDAY**Business Management****Virtual Room 3**

Session Chair: John Lester R. Remot, University of the Philippines Los Baños, Philippines

ID 221 Review on Sustainable Energy Implementation in Indonesian Cement Industry

Djoko Nurprawito, Erwin Suryadi Maila, Rahmat Nurcahyo, Rangga Damar Bagaskara, Yoga Satria and dan Zahrina Zihni, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia

ID 67 Study, Design and Performance Analysis of OFFGRID PV mini-grid systems. Case Study 5MW Simulation PVSYST

Marina Artiyasa and Muhammad Natsir, Electrical, PGSD Universitas Nusa Putra, Indonesia

ID 500 The Effect of Service Quality and Price on Customer Satisfaction and Loyalty in Telkomsel Cellular Operator Services

Indira Rachmawati, Associate Professor of Marketing & Consumer Studies, Faculty of Economy & Business, Telkom University, Bandung, Indonesia
Agung Suryahadiningrat Kusumanegara, student Faculty of Economics and Business, Telkom University, Faculty of Economics and Business Telkom University, Bandung, Indonesia

ID 282 The Effect of Trust and Price on Brand Image and Consumer Decision Making on New E-Commerce Platforms Digital Business Gempolklutuk Village

Arasy Alimudin, Agus Sukoco, Ani Wulandari, Achmad Muchayan and Winarto Poernomo, Department of Management, Narotama University, Surabaya, Indonesia

ID 434 The Influence of Instagram Marketing on Customer Purchase Intention through Customer Inspiration (Study on Telkomsel Postpaid)

Indrawati, Associate Professor in Marketing, Faculty of Economy & Business, Telkom University, Bandung, Indonesia
Zenia Rahmah, Associate Professor of Marketing & Consumer Studies, Faculty of Economy & Business, Telkom University, Bandung, Indonesia

ID 438 Valuation of Mini Hydropower Plant in Indonesia by Considering the Effect of Risk Factors using Value at Risk Approach

Muhammad Fakhri Pratama and Armand Omar Moeis, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia Depok, 16424, Indonesia

ID 201 Usability Analysis of the Ronnie Baugh (Oggun li) Tractor Using the Single Usability Metric

John Lester R. Remot, Stephanie Caridad DR. Landicho, John Kenneth P. Punongbayan, Omar F. Zubia, PhD and Josefa Angelie D. Revilla, Undergraduate Research, Human Factors and Ergonomics, University of the Philippines Los Baños, Philippines

6:00 – 7:45 pm, MONDAY**Modeling and Simulation****Virtual Room 4**

Session Chair: Mohamed Amjath, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar

ID 374 A heuristic algorithm for determining the order of ARIMA models

Shima Soltanzadeh, Melika Modarres Vahid and Majid Khedmati, Department of Industrial Engineering, Sharif University of Technology, Tehran, Iran

ID 329 Solar Technology Enabled Operational Robot: An Interconnected Cybernetics System with (IoV) and Multidisciplinary Implementation for an Intelligent Robot Control and Monitoring System

Abdullah Ali MamunAnik, Military Institute of Science and Technology, Bangladesh

ID 453 An Agent-based Modeling Approach for Effective Innovation Ecosystem Orchestration

Emad Summad, Mahmood Al Kindi, Ichraq Ouhmidou and Alzahra Al Kindi, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Sultanate of Oman

ID 98 Application of value stream mapping as lean tool along with arena simulation in public health care services: a case of the radiology department

Sana Hassan and Asim Amjad, Lecturer at Department of industrial engineering and management, Faculty of quality and industrial systems engineering, university of the Punjab, Pakistan
Saher Afshan, Student at Department of industrial engineering and management, Faculty of quality and industrial systems engineering, university of the Punjab, Pakistan

ID 516 Guidelines for Fruits and Vegetables Consumption in Indonesia using Linear Programming

Nurhayati and Sundari Wirasmi, Researcher of Research Center for Preclinical and Clinical Medicine, National Research and Innovation Agency, Indonesia
Aris Yulianto, Student at ASEAN Institute for Health Development, Mahidol University, Nakhon Pathom 73170 Thailand
Researcher of Research Center for Preclinical and Clinical Medicine, National Research and Innovation Agency, Indonesia

ID 496 Stacking Activity Modeling in Tanjung Priok Container Terminal Using Discrete Event Simulation

Armand Omar Moeis and Irfan Rolanda Adfikaputra, 1Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia

6:00 – 7:45 pm, MONDAY**Systems Engineering and Service Engineering****Virtual Room 5**

Session Chair: Jeerasak Wisatphan, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

ID 275 Analisis Kualitas Pelayanan Program Studi Di Institut Teknologi Sumatera Dengan Metode Servqual (Service Quality) Dan Ipa (Importance Performance Analysis) (Studi Kasus Prgram Studi Teknik Industri)

Danang Ortega P, Muhammad Luthfi K, Muhammad Wilda R, Septya Monica and Romauli Septiana M, Program Studi Teknik Industri, Fakultas Teknik, Institut Teknologi Sumatera, Jalan Terusan Ryacudu Way Huwi, Kecamatan Jati Agung, Lampung Selatan, Indonesia

ID 432 Assessment Framework for Consumer Purchase Decision in Supermarket

E. Aloysius Richard Rozario and M. Suresh, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

ID 480 Designing an Inventory Management System for Convenience Store X Using Design Thinking Approach

Ann Kathryn T. Laping, Charmaine Anne R. Mendoza, Keith Nathan L. Tiulentino and Ryan Mikael M. Villaraza, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Gabriel C. Bucu and Joeanna K. Ngo, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

ID 435 Factors Influencing Electricity Distribution using Interpretive Structural Modeling

M. Suriya Kumar and M. Suresh, Amrita School of Business, Amrita Vishwa Vidyapeetham, Coimbatore, India

ID 507 Quality of Individual Health Services at the Community Health Center in Sarolangun Regency, Jambi Province

Novia Susianti and Tety Rachmawati, Researcher of Research Center for Public Health and Nutrition, National Research and Innovation Agency, Republic of Indonesia

Mukhlissul Faatih and Anton Suryatma, Researcher of Research Center for Preclinical and Clinical Medicine, National Research and Innovation Agency, Indonesia

Aris Yulianto, Student at ASEAN Institute for Health Development, Mahidol University, Nakhon Pathom 73170 Thailand

Researcher of Research Center for Preclinical and Clinical Medicine, National Research and Innovation Agency, Indonesia

ID 15 Analyzing Sense and Avoid Requirements to Integrate Unmanned Aircraft Systems into Controlled Airspace

Niamat Ullah Ibne Hossain, Alexandr M. Sokolov, Joshua D. Roseler and Brian Merrill, Engineering Management and Construction Management College of Engineering and Computer Science Arkansas State University, State University, AR 72467, USA

ID 463 Demand Forecasting to Reduce Dead Stock and Loss Sales: A case study of the wholesale electric equipment and part company

Korpapa Srisamai and Pawee Siriruk, System Engineering Program, The School of Industrial Engineering, Suranaree University of Technology Nakhon Ratchasima, Thailand

ID 224 Modelling Water Pumping System in the Capricorn District Municipality of Limpopo Province

Mpho Mkhoojane, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

George Peta, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

April Kujoane, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

M. E. Matlakala, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

D. V. V. Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, South Africa

ID 506 The Application of Simulation Techniques to Enhance Nitroglycerin Production Efficiency: A Case Study of the Military Explosive Factory in Nakhon Sawan Province

Jeerasak Wisatphan and Nara Samattapong, School of Systems Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

6:00 – 7:45 pm, MONDAY

Occupational Safety and Health (OSH)

Virtual Room 6

Session Chair: Almuzn Alqathradi, King Khalid University, Saudi Arabia

ID 539 A Model of Developing Safety Culture for Manufacturing: A Literature Review

Donni Syahrial Hanafi Daulay, A. Rahim Matondang and Listiani Nurul Huda, Department of Industrial Engineering, University of North Sumatera, Medan, Indonesia,

Yassierli, Department of Industrial Engineering, Bandung Institute of Technology, Bandung, Indonesia

ID 517 A Systematic Approach to Improving Safety Culture

Dr. Saed Amer, Faculty Member, Industrial and Systems Engineering Department - Khalifa University, Abu Dhabi, United Arab Emirates

Abdulla Jasim Al Hosani, Master of Health, Safety, and Environmental Engineering, Industrial and Systems Engineering Department - Khalifa University, Abu Dhabi, United Arab Emirates

Abdulla Yousuf Al Marzooqi, Master of Health, Safety, and Environmental Engineering, Industrial and Systems Engineering Department - Khalifa University, Abu Dhabi, United Arab Emirates

Abdulla Hussain AlShabibi, Master of Health, Safety, and Environmental Engineering, Industrial and Systems Engineering Department - Khalifa University, Abu Dhabi, United Arab Emirates

ID 369 Assessment of Microbial Bioindicators For Seawater Contamination in Chattogram Ship Dismantling Zone

Jannatun Wnaiza, University of science and technology, Chittagong, Bangladesh

ID 380 Computer Vision Syndrome (CVS) Among Office-based Workers

Noora B. Almansoori, Electrical Engineer, Health, Safety and Environment Engineering, Department of Industrial and Systems Engineering Khalifa University, Abu Dhabi, United Arab Emirates

Jwahir Albreiki and Maryam Alkatheeri, Health, Safety and Environment Engineering, Department of Industrial and Systems Engineering Khalifa University, Abu Dhabi, United Arab Emirates

ID 519 Effects of Prolonged Sitting Posture on Neck and Shoulder Joints During Occupational Driving: Human Ergonomic Simulation Software

Aisha Ali Hasan Mohamed Dhaiban, MSc. Student, Department of Industrial Engineering, Khalifa University, Abu Dhabi, United Arab Emirates

Areej Mabrouk Abdrabo Bin Amro, MSc. Student, Department of Industrial Engineering, Khalifa University, Abu Dhabi, United Arab Emirates

Dr. Saed Amer, Faculty Member, Industrial and Systems Engineering Department - Khalifa University, Abu Dhabi, United Arab Emirates

ID 515 Framework for Conducting Virtual Reality Safety Training in Confined Spaces

Asmaa Alseredi, Hasan Alhammadi and Abdulaziz Almarzooqi, Department of Engineering Health, Safety and Environment Khalifa University for Science and Technology, Abu Dhabi, United Arab Emirates

Saed Talib Amer, Doctor of Industrial and Systems Engineering Khalifa University for Science and Technology Abu Dhabi, United Arab Emirates

ID 509 Reduction of expenses and empowerment of leadership using leading indicators at SEC

Almuzn Alqathradi, King Khalid University, Saudi Arabia

6:00 – 7:45 pm, MONDAY

Sustainability and Green Systems

Virtual Room 7

Session Chair: Priscila Banda, Department of Urban and Regional Planning, University of Johannesburg, South Africa

ID 227 Comparative Analysis of Entry Level Internal Combustion Engine Vehicles (ICEV) and Electric Vehicles (EV)

Fauzia Ashwin Hadits, Giri Aji Anggoro, Irvan Ari Ganda, Tody Isfitazli and Rahmat Nurcahyo, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Jakarta, Indonesia

ID 358 A Review of How Occupant Behaviour Determines the Energy Efficiency of Green Buildings: A Case of Office Buildings

Shalini Sanmargaraja, AbdulLateef Olanrewaju, Muhammad Tarique and Chong Hooi Lim, Faculty of Engineering and Green Technology, Universiti Tunku Abdul Rahman, Jalan Universiti Bandar Barat, 31900, Kampar Perak, Malaysia

Vignes Ponniah, Faculty of Science and Engineering, Manchester Metropolitan University, United Kingdom

ID 451 Analysing the Contribution of Green Buildings Towards Circular Economy in Sri Lanka

Panchali Weerakoon and Menaha Thayaparan, Department of Building Economics, University of Moratuwa, Sri Lanka

Mohan Siriwardena, School of Civil Engineering and Built Environment, Liverpool John Moores University, Liverpool

ID 157 Examining the potential of urban sustainability attainment in cities of the Global South: City of Ekurhuleni experiences

L.P Matshika, Masters Student, University of Johannesburg, Department of Urban and Regional planning, Office 6062, Sixth Floor, John Orr Building, Beit and Siemert Street, 2028. Johannesburg, South Africa

T. Gumbo, Head of Department and Associate Professor, University of Johannesburg, Department of Urban and Regional planning, Office 6062, Sixth Floor, John Orr Building, Beit and Siemert Street, 2028. Johannesburg, South Africa

ID 108 Limitations of Futuristic Building Materials in Achieving a Sustainable Construction Industry

Olusegun A. Oguntona, Department of Built Environment, Faculty of Engineering and Technology, Walter Sisulu University, Butterworth, South Africa

Opeoluwa I. Akinradewo, Onalerona Mokono and Clinton O. Aigbavboa, cidb centre of Excellence, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

ID 543 Lowering Cost of Photovoltaic Systems Using Forecast Dependent Design, Monitoring and Management Methodology

Raghd I. Melhem, Maram H. Hammoud and Maryam A. Nuaimi, Engineering Student, Engineering College, University of Science and Technology of Fujairah, Fujairah, UAE

Ali A. Elnour, The Dean of Engineering department, Engineering College, University of Science and Technology of Fujairah, Fujairah, UAE

ID 371 Passive Design Approach to Improve Energy Efficiency for Office Building

Muhammad Tarique Lakhiar, Shalini Sanmargaraja, AbdulLateef Olanrewaju and Chong Hooi Lim, Faculty of Engineering and Green Technology, Universiti Tunku Abdul Rahman, Jalan Universiti Bandar Barat, 31900, Kampar Perak, Malaysia

Vignes Ponniah, Faculty of Science and Engineering, Manchester Metropolitan University, United Kingdom

ID 204 Planning Laws, Health Pandemics and City Resilience: A Review of the Urban and Regional Planning Laws in Southern Africa

Buhle Dube and Trynos Gumbo, Department of Town and Regional Planning, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

Innocent Chirisa, Zimbabwe Ezekiel Gutu University, 1901 Barrassie Road, Bindura, Zimbabwe

Average Chigwenya, National University of Science and Technology, Cnr Cecil Avenue & Gwanda Road, Bulawayo

ID 233 Total Cost Analysis of Combustion and Electric Cars in Indonesia

Amiral Rasyid, Joshua, Muthia Khadijah, Putri Aysha Qalbi and Rahmat Nurcahyo, Industrial Engineering Department, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 226 Wetland use and conservation in peri-urban communities: Reflections from Budeli, Mutoti and Mphego near Nandoni Dam, Limpopo Province, South Africa

Priscila Banda and Trynos Gumbo, Department of Urban and Regional Planning, University of Johannesburg, South Africa

Emmaculate Ingwani, Senior Lecturer Department of Urban and Regional Planning, Department of Urban and Regional Planning, University of Venda, Thohoyandou, Limpopo, South Africa

March 6, 2023 (Monday) - Session: 8:00 – 9:45 pm

8:00 – 9:45 pm, MONDAY

Undergraduate Research Competition

Virtual Room 1

Session Chair: Judging Committee Chair

ID 479 A Tale of Two Billfolds: A Comparative Study on Behavioral Intention of Filipino Consumers in Using e-Wallet and Cash During In-Store Transactions

Julia Victoria G. Ortiz, Kristen Marie A. Pilapil, Jemima Rayne I. Purugganan, Julianne Alicon O. Ramano and Damirson A. Co, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines

ID 472 Comparative Analysis of the Mechanical Properties of Coconut Fiber Cement Board and Concrete Hollow Bloc

Prof. Carlos Ignacio Jr. P. Lugay, Phd, Pie, Asean Eng, Professor of Industrial Engineering, Associate Professor of The Industrial Engineering Department, Faculty of Engineering, University of Santo Tomas, Manila, Philippines
 Dyanne Trixzel Suacoco, Mark Levinson Go, Kyle Matthew Espiritu and Marc Neilsen Elamparo, Roque Ruano, Faculty of Engineering, Industrial Engineering, University of Santo Tomas, Manila, Philippines

ID 213 Torque Performance Analysis of Bldc Motor for Electric Motorcycle by Halbach And Skewing Rotor

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

ID 194 Electromagnetic Torque Profile Improvement of An Interior Permanent Magnet Motor by VV Magnet Design

Bui Minh Dinh, School of Electrical Engineering, Hanoi University of Science and Technologies, Vietnam
 Nguyen Viet Anh, Hanoi University of Industry-HUI, Vietnam

ID 376 Re-engineering of Gold Precious Metal Production Process in Mining Companies

Achmad Gunawan Wibisono, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

ID 72 Solving an Interscholastic Bus Routing Problem

Angela María Rosas, Bárbara García-Colis and Paula Sofía Valencia-Torres, Industrial and Systems Engineering, Universidad de Monterrey
 San Pedro Garza García, México
 Jenny Díaz-Ramírez, School of Engineering and Technologies, Universidad de Monterrey, San Pedro Garza García, México

8:00 – 9:45 pm, MONDAY

Virtual Room 2

Diversity and Inclusion Panel Sponsored by Ford Motor Company

Panel Chair

Dwi Agustina Kurniawati, M.Eng., Ph.D.
 Associate Professor
 Industrial Engineering Department
 Former Head of Industrial Engineering Department
 Head of Faculty Quality System Controller
 Faculty of Science and Technology
 UIN Sunan Kalijaga, Indonesia

Panel Speaker I

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 Speaker II

Dr. Denni Kurniawan, D.Eng.
 B.Eng. (ITB, Indonesia), M.Eng. (UTM, Malaysia), D.Eng. (Dongguk, Korea), P.Eng. (Indonesia)
 Assistant Professor, Mechanical Engineering Programme Area, Faculty of Engineering
 Programme Leader, Mechanical Engineering Programme Area, Faculty of Engineering
 Universiti Teknologi Brunei
 Brunei, Darussalam

Panel Speaker III

Dr. Feliks P.S. Surbakti
 Associate Professor
 Head of Industrial Statistics and Decision Support Laboratory
 Atma Jaya Catholic University of Indonesia (AJCUI)
 Jakarta, Indonesia

8:00 – 9:45 pm, MONDAY

Lean Six Sigma and Doctoral Competitions

Virtual Room 3

Session Chair: Judging Committee Chair

LEAN SIX SIGMA COMPETITION

ID 5 Production Planning and Inventory Control Using Odoo Open Source ERP Simulation in PT. XYZ

Vanessa Angelica Budiono, Lina Gozali, I Wayan Sukania and Katya Victory Liu, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 617 Improving the Efficiency of Teamwork Using Online Kaizen Workshop During COVID -Case of Assertive Community Treatment

Marzieh Ghiyasinasab, Postdoctoral fellow, Canada
 Samira Keivanpour, Professor, Department of Mathematical and Industrial Engineering, Polytechnique Montreal, Montréal, Canada

ID 139 Planning Production and Inventory Control in Managing Bullwhip Effect at Electronics Industry

Stiven Tjen, Lina Gozali, Helena Juliana Kristina, and Victor Imanuel, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

DOCTORAL DISSERTATION COMPETITION**ID 633 In bojongsari district, depok west java, a strategy for implementing the blue economy concept in the neon tetra ornamental fish cultivation group**

Harlis Setiyowati, Pradita University, Indonesia

Mulyanto Nugroho, University of 17 Agustus 1945 Surabaya, Indonesia

ID 671 A Study on Transit-Oriented Development Strategies Surrounding High-Speed Rail Hub

Kittipong Tissayakorn, Office of the National Economic and Social Development Council, Thailand

8:00 – 9:45 pm, MONDAY**Technical Track****Virtual Room 4**

Session Chair: Albertus Retnanto, Ph.D., Professor, Petroleum Engineering, Texas A&M University at Qatar, Doha, Qatar

ID 665 South African Rail Infrastructure Maintenance Optimization

Lekhoromo J Boye, Bheki B. S. Makhanya, Jan-Harm. C. Pretorius and Hannelie Nel, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

ID 672 Landslide Hazard in Chittagong & Chittagong Hill Tracts

Md. Emdadul Hoque, Dhaka, Bangladesh

Ahmad Mahir Faysal, IEOM Society International, United States

ID 265 Inventory Policy for the Demand of the Main Products: Case of a Peruvian Grocery Store

Joshep Delfin Mauricio Espinoza and Emilio Huaynate Ricaldi, Thesis writers, Universidad de Lima, Lima, Perú

Marco Fernando Ruiz Ruiz, Professor, Department of Industrial Engineering, Universidad de Lima, Lima, Perú

ID 495 Teaching and Learning Using In-Class Remotely vs. Traditional Face-to-Face Methods: An Empirical Study

Albertus Retnanto, Ph.D., Professor, Petroleum Engineering, Texas A&M University at Qatar, Doha, Qatar

Hamid R. Parsaei, Ph.D., P.E., Professor, Industrial and Systems Engineering, Texas A&M University, College Station, TX, USA

Boback Parsaei, Vice President and Chief Technical Officer, Integrated Technology Systems, Inc., Houston, Texas, USA

ID 702 How Do Trucking Carriers Differ from Third-Party Logistics, Couriers, and Private Fleets in their Resilience?

Ira Margaritha Sugianto, I Nyoman Pujawan and Jerry Dwi Trijojo Purnomo, Doctoral Program in Management of Technology, School of Interdisciplinary Management and Technology, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

March 7, 2023 (Tuesday)

March 7, 2023 (Tuesday) - Session: 8:00 – 9:45 am

8:00 – 9:45 am, TUESDAY**Plenary - Global Business Management****Onsite Hilton Room 1**

Session Chair: Session Chair: Dr. Ayham Jaaron

Student Volunteer: Abish Chan (DLSUD)

8:00 – 8:20 am, Tuesday, March 7

Jayson Barlan

Executive Director for Non-academic Operations

Lyceum of the Philippines University-Manila

Manila, Philippines

8:20 – 8:40 am, Tuesday, March 7

Dr. Ayham Jaaron

Senior Lecturer in Business and Management

De Montfort University

Leicester, UK

8:40 – 9:00 am, Tuesday, March 7

Dr. Sundaravalli Narayanaswami

Indian Institute of Management

Ahmedabad, India

9:00 – 9:20 am, Tuesday, March 7

Dr. Hendro Sasongko

Dean, Faculty of Economics and Business

Pakuan University

Bogor, Indonesia

Water for Everyone – Tradeoff between Affordability and Business

9:20 – 9:40 am, Tuesday, March 7

8:00 – 9:45 am, TUESDAY

HF and SCM Competitions

Onsite Hilton Room 2

Session Chair: Reimon Therence Doblón (DLSUD)

HUMAN FACTORS AND ERGONOMICS COMPETITION

ID 546 Ergonomic Assessment of Copra Cake Manual Material Handling Process: A Basis for the Design of an Ergonomic Equipment
Roland Emerson Mabuting, Dr. James Louie R. Meneses and Laurence Binasa, College of Engineering, Manuel S. Enverga University Foundation
Lucena City, Quezon, Philippines

ID 651 Approaches in Evaluating Hospital Wayfinding Signage System: A Literature Review
Chris John Castor, Atreus Datuin, Anjelo Maquinay, Joanna Marie Realon and Giselle Joy Esmeria, Industrial Engineering Department, De La Salle University, Manila, Philippines

ID 662 Determination of Occupational Stress Level and Mental Workload in a Manufacturing Company in Kuwait
Abdulaziz AlSawagh, Ahmed Altemeemi, Aqeel Esmail, Hasan AlOstath, Humoud AlRowais and Suat Kasap, College of Engineering and Technology, Industrial Engineering Department, American University of the Middle East, Eqaila, Kuwait

ID 666 Study Engagement Impact on Burnout Prevention in Industrial Engineering Students: A Cross-National Study
Jeremy Brian Pratama, Department of Industrial Engineering, Universitas Atma Jaya Yogyakarta, Sleman, Special Region of Yogyakarta, Indonesia
Twin Yoshua R. Destyanto, Dept. of Industrial Engineering, Universitas Atma Jaya Yogyakarta, Sleman, Special Region of Yogyakarta, Indonesia

SUPPLY CHAIN AND LOGISTIC COMPETITION

ID 220 A Comprehensive Evaluation Framework for Assessing Vaccine Supply Chain Performance Using Real Time Data
Pratik Rai and Sasadhar Bera, Department of Operations Management, Indian Institute of Management Ranchi, Ranchi, India
Shiv Charan Banerjee, National Informatic Center, Ministry of Electronics and Information Technology, Government of India

ID 311 Attribution of Strategic Motive, Business Efficiencies, Firm Economies, and Market Factors as Motivations of Restaurant Industry Vertical Integration Adoption: A Structural Equation Model
Melecio A. Sy, Jr., Department of Business Management, Ateneo de Davao University, Davao City, Philippines

ID 587 Identifying Supply Chain Manager and Leader Skills and Competencies Gaps in Malaysia
Siti Norida Wahab, PhD., Senior Lecturer, Department of Technology and Supply Chain Management Studies Faculty of Business and Management
Universiti Teknologi MARA, 42300 Bandar Puncak Alam, Selangor, Malaysia
Albert Tan PhD., Associate Professor. W. Sycip Graduate School of Business, Academic Program Director of the Online MBA Program, Asian
Institute of Management, 123 Paseo de Roxas, Makati City, Philippines
Olivier Roche PhD., Associate Professor. S. Zuellig Graduate School of Development Management, Asian Institute of Management, 123 Paseo de
Roxas, Makati City, Philippines

8:00 – 9:45 am, TUESDAY

Undergraduate Paper Competition

Onsite Hilton Room 3

Session Chair: Miriam F. Bongo (DLSU)

ID 27 Delivery Routing Optimization for Load Planning Processes of Distribution Companies
Maria Sabrina B. Cantos, Gregg Domini M. Jacob, Nadine B. Jacob, Caitlin Bettina Y. Tan, Julian Clement M. Tan and Jayne Lois G. San Juan
Department of Industrial and Systems Engineering, De La Salle University, 1004 Manila, Philippines

ID 28 Multi-objective optimization of airport gate and aircraft assignments
Jarvy Larz San Juan, Jeremy Gabriel Uy and Jayne Lois San Juan, Department of Industrial and Systems Engineering, De La Salle University,
Manila, Philippines

ID 56 Perceived Employee Engagement, Collaborative Capability, and Service Tenure as Correlates of Employee Performance: A Multivariate Analysis
America, Girlie, De Palma, Mary Leinel, Demalata, Fiona Mae, Denila, Robert Ryan, Inocencio Bheatrixe and Oblino, Sharmae Jayne, Department
of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Cubao, Quezon City,
Philippines

ID 141 Rauvolfia Serpentina (Serpentina) And Peperomia Pellucida (Pansit-Pansitan) As an Antiparasitic Spray Against Rhipicephalus Sanguineus Latreille (Common Ticks)
Mahmooda Aziza Bhatti, Bulacan State University, Philippines

ID 558 Risk assessment in health systems for COVID-19
Betül Avcı, School of Engineering and Natural Sciences, Industrial Engineering, Istanbul Medipol University, Beykoz, Istanbul, Turkey
Özgür Erol Yeşilsirt, Professor, Department of Industrial Engineering, Istanbul Medipol University, Beykoz, Istanbul, Turkey

ID 553 Ergonomically Designed Fishing Equipment to Improve the Occupational Safety and Health Among Fisherfolks at Jala-Jala, Rizal
Gallardo, Christine Joy B., Oliveros, Zina Marie G., Ople, Vazh Chloey V., Protacio, Etthandan Zeus C. and Sibulan, Kenneth Dane S., Industrial
Engineering Department, Technological Institute of the Philippines – Manila
Janina Elyse A. Reyes, Industrial Engineering Department, Technological Institute of the Philippines- Manila

ID 579 Digital Notifier Panel

Miss.Javeria Hafeez, Lecturer \Computer Science, Sir Syed University of Engineering and Technology Karachi, Pakistan
 Sanjina Ramrakhyani, Computer Science, Sir Syed University of Engineering and Technology Karachi, Pakistan
 Mr. Sallar Khan, Senior Lecturer\ Computer Science Sir Syed University of Engineering and Technology, Karachi, Pakistan
 Sadia Rasheed, Computer Science, Sir Syed University of Engineering and Technology Karachi, Pakistan
 Neha Naeem, Computer Science, Sir Syed University of Engineering and Technology Karachi, Pakistan
 Ayesha Kiran, Computer Science, Sir Syed University of Engineering and Technology Karachi, Pakistan

ID 589 Service Efficiency Analysis of the Outpatient Department (OPD) of a public hospital in the Philippines by Service Quality Model and Queuing Theory

Essey Misaki V. Andres, Franz C. Dator, Pamela Rose A. Juan, Joeyette Therese E. Macato and John Carl R. Mendevil, Industrial Engineering Department, Technological Institute of the Philippines, Manila, Philippines
 Janina Elyse A. Reyes, Industrial Engineering Department – Adviser, Technological Institute of the Philippines, Philippines

8:00 – 9:45 am, TUESDAY**Operations Management****Onsite Hilton Room 4**

Session Chair: Christine Omela V. Ocampo (CTU)

Student Volunteer: Eunice Reyes (Mapua)

ID 87 A Standardized System of Classifying and Prioritizing the Management of Potential Dead Stocks in Retail Chain Stores

Richard Li, Rosemary Seva and Anthony Chiu, Department of Industrial and Systems Engineering, Gokongwei College of Engineering, De La Salle University, Manila, Philippines

ID 246 Aggregate Planning for Disassembly Process in Reverse Supply Chain

Maulida Boru Butar Butar, Department of Industrial Engineering, Gunadarma University, Depok, Indonesia
 Mohamad Yamin, Department of Mechanical Engineering, Gunadarma University, Depok, Indonesia

ID 19 Analysis of ore quality influence on crusher energy efficiency

Mpho Selepe and Joe Amadi-Echendu, Department of Engineering and Technology Management, University of Pretoria, South Africa

ID 55 Investigating the Application of Agile and Lean Methodologies to Nonprofit Organizations (NPOs) Using Clustering Methodologies

Abdelhakim Abdelhadi, Professor of Engineering Management, Prince Sultan University, Riyadh, Saudi Arabia
 Fares Abus Khamis, Alumni, Prince Sultan University, Riyadh, Saudi Arabia

ID 64 Specialized model and solution for the problem of mass public transport type BRT considering bus driver task programing and rostering with work shifts classification

Luis Miguel Escobar, Professor and researcher in the Engineering department, Universidad Libre Seccional Pereira, Pereira, Colombia
 Laura Monica Escobar, Professor and researcher in the Electrical Engineering department, I+D+I Research Coordinator, Universidad Tecnológica de Pereira, Pereira, Colombia
 Rubén Iván Bolaños and César A. Marín, I+D+I Coordinator, I+D+I Research Manager, Integra s.a, Pereira, Colombia

ID 661 Predicting Saudi Crude Oil Export Using Artificial Neural Networks (ANN)

Ali AlArjani, Department of Industrial Engineering, College of Engineering, Prince Sattam Bin Abdulaziz University, Al Kharj- 11942, Saudi Arabia

8:00 – 9:45 am, TUESDAY**Lean Six Sigma****Onsite Hilton Room 5**

Session Chair: Fritz Nichole D. Abad (Mapua)

Student Volunteer: Kristina Ana Draculan

ID 155 An Approach to Six Sigma Project Selection and Team Members' Assignment

Omkarprasad S Vaidya, Professor, Operations Management, Indian Institute of Management, Lucknow, India

ID 38 Lowering Mean Time to Recovery (MTTR) in Responding to System Downtime or Outages: An Application of Lean Six Sigma Methodology

Arnold I. Aguilar, Masters in Engineering Program in Industrial Engineering, Gokongwei College of Engineering, De La Salle University, Manila, Philippines

ID 366 Critical Success Factors of Lean Six Sigma Implementations in Philippine Food Manufacturing Companies

Robert James A. Paulmino, Graduate School, University of Santo Tomas, Manila, Philippines

ID 404 Factors Influencing Lean Methodology Application at Phaswana Textile and Manufacturing in South Africa

Sandisiwe Nqobile Ndlovu and Sambil Charles Mukwakungu, Department of Quality and Operations Management, University of Johannesburg Johannesburg, South Africa

ID 142 Strategy of Halal Certifications Using the Strategic Assumption Surfacing and Testing (SAST) (Case Study at Riau Indonesia)

Akbarizan, Hertina, Faculty of Sharia and Law, State Islamic University Sultan Syarif Kasim Riau, Indonesia
 Sri Murhayati, Nurcahya, Faculty of Education and Teacher Training, State Islamic University Sultan Syarif Kasim Riau, Indonesia
 Fitra Lestari and Mohammad Dzaky Adzkia, Industrial Engineering Department, Faculty of Science and Technology, State Islamic University Sultan Syarif Kasim Riau, Indonesia
 Rahmad Kurniawan, Department of Computer Science, Universitas Riau, Indonesia

ID 274 From Digital transformation to sustainability in SMEs: Opportunities for net zero economy

Anbesh Jamwal, Rajeev Agrawal and Monica Sharma, Dept. of Mechanical Engineering, Malaviya National Institute of Technology Jaipur, India

8:00 – 9:45 am, TUESDAY**Teaching and Learning****Online Room 6**

Session Chair: Dr. C.F. Kwong

Student Volunteer: Marie Eugenie Marvil (SLU)"

Plenary Speaker**Dr. C.F. Kwong**

Head of Department of Electrical and Electronic Engineering
University of Nottingham Ningbo China
Ningbo, Zhejiang, China

ID 230 Association of Motivated Strategies, Faculty-Student Relationship and Online Learning Environment: A Structural Equation Modeling Approach

Alein B. Navares, Erllyn Ivy O. Rago, Erika Albuera, Francis Louie Amazona, Mae Faith Laurito and Jason Versoza, Department of Industrial Engineering, Cebu Institute of Technology – University, Cebu City, Philippines

ID 228 Interlinking Organizational Culture and Employee Engagement of a Higher Education Institution: A Structural Equation Modeling Approach

Alein B. Navares, Erllyn Ivy O. Rago, James Robert Mapagdalita, Gale Methusalah Bocota, Angela Klara Ruedt and Jizyl Anne Ursabia, Department of Industrial Engineering, Cebu Institute of Technology – University, Cebu City, Philippines

ID 351 Determining the Differences in Performance Between Two Techniques of Radio Frequency Scanning at Telecommunication Towers

Rosdin Abdul Kahar, Engineering Department, SKMG Asia Technology Sdn Bhd, Petaling Jaya, Selangor, Malaysia
Mohd Nizam Ab Rahman, Nizaroyani Saibani and Mohd Faiz Mansor, Faculty of Engineering and Built Environment, Universiti Kebangsaan Malaysia, 43600 UKM Bangi, Selangor Darul Ehsan, Malaysia

9:45 – 10:00 am Morning Networking Coffee Break – Foyer Area of Hilton Hotel

March 7, 2023 (Tuesday) - Session: 10:00 am – 1:00 pm

Keynote Speakers**10:00 am – 10:20 am Welcome Address:****Br. Bernard S. Oca FSC**

President
De La Salle University

10:20 am – 11:00 am Opening Keynote:**Prof. Jose Arturo Garza-Reyes**

Professor of Operations Management
Head of the Centre for Supply Chain Improvement
College of Business, Law and Social Sciences
University of Derby, UK

11:00 am – 11:40 am Keynote II:**Mynard Bryan R. Mojica**

Deputy Director, Policy Development Group
Financial Inclusion Office, Bangko Sentral ng Pilipinas
Calabarzon, Philippines

11:40 am – 12:20 pm Keynote III:**Jorey Guzman**

Regional Manager, Factory Automation South East Asia
Siemens, Singapore

12:20 pm – 01:00 pm Keynote IV:

Prof. Ts. Dr. Massila Kamalrudin
Vice Chancellor
Universiti Teknikal Malaysia Melaka (UTeM)
Malacca, Malaysia

1:00 – 2:00 Lunch Break
Buffet Lunch Provided at Hilton

March 7, 2023 (Tuesday) - Session: 2:00 – 3:45 pm

2:00 – 3:45 pm, TUESDAY

Plenary - Global Engineering Education

Onsite Hilton Room 1

Session Chair: Lourdes Lasian

Student Volunteer: James Ryand O. Cadano (UPD)

2:00 – 2:20 pm, Tuesday

Reynaldo B. Vea
President and CEO of the Mapua University
Chairman and CEO of iPeople, Inc.

2:20 – 2:40 pm, Tuesday

Dr. Philip P. Ermita, PIE, PhD, ASEAN Eng.
Associate Professor
Chief, Technology Business Incubation Center
Program Chair, MS in Industrial Engineering
Polytechnic University of the Philippines (PUP)

2:40 – 3:00 pm, Tuesday

Dr. Siti Sarah Omar
Associate Professor
Faculty of Technology Management and Business
Universiti Tun Hussein Onn Malaysia (UTHM)
Johor Malaysia

3:00 – 3:20 pm, Tuesday

Dr. Peter Ureta
Fellow, Philippine Institute of Civil Engineers (PICE)
Charter Member, PICE LNM Chapter
Fellow, Association of Structural Engineers of the Philippines (ASEP)
Chair – Technical Committee of Civil Engineering (TCCE), Commission on Higher Education (CHED)
Member – Technical Panel For Engineering and Technology (TPET), CHED

3:20 – 3:40 pm, Tuesday

Dr. Yuseni Bin Ab Wahab, PhD, P.Tech
Deputy Vice Chancellor (Research and Corporate Development)
University of Malacca (UniMEL), Malaysia

2:00 – 3:45 pm, TUESDAY

Women in Industry and Academia (WIIA) Panel

Onsite Hilton Room 2

Panel Chair

Student Volunteer: Shayne Nicole S. Trinidad (UPD)

Dr. Michelle Adiwang
Professor
Saint Louis University
Philippines

Panel Speaker I

Siew Imm, Serene Ng
Associate Professor
School of Business and Economics
Universiti Putra Malaysia
Selangor, Malaysia

Panel Speaker II

Adeline A. Pacia
Vice Chancellor for Administration
University of the Philippines – Diliman QC
Philippines

Panel Speaker III

Maria Corazon de Guzman-Ocampo
Professor
Industrial Engineering Department
School of Engineering and Architecture (SEA)
Saint Louis University
Manila, Philippines

Panel Speaker IV

Rita Nicodemus, MSc
Research, Innovation and Technology Advocate
Safe City Innovator
Founder, ENTEGRA Systems
Singapore

2:00 – 4:00 pm, TUESDAY

Graduate Student Paper Competition

Onsite Hilton Room 3

Session Chair: Miriam F. Bongo (DLSU)

ID 80 A System Dynamics Approach to Model and Manage Plastic Waste Pollution

Charlle Sy, De La Salle University, Philippines

ID 173 Assessing the Sustainability of Social Housing Projects in Ekurhuleni: A Case Study of Germiston

Lebogang S. Moroaswi, Correspondence author, Department of Urban and Regional Planning, University of Johannesburg, Corner of Siemert and Beit Streets, Doornfontein Campus, Johannesburg, South Africa
Zenzile Mbinza and Trynos Gumbo, Academic Staff, Department of Urban and Regional Planning, University of Johannesburg, Corner of Siemert and Beit Streets, Doornfontein Campus, Johannesburg, South Africa

ID 81 Evaluation of Strategies for Rising Sea Levels using System Dynamics

Charlle Sy, De La Salle University, Philippines

ID 248 Examining the Influence of Interruptions in Online Learning on Student's Perceptions and Comprehension

Adva Epstein, Industrial and Management Department, Sami Shamoon College of Engineering (SCE), Ashdod, Israel
Sagit Kedem-Yemini, Logistics Department, Sapir Academic College, Sderot, Israel
Adi Katz, Industrial and Management Department, Head of YOUSability, the usability center in SCE, Sami Shamoon College of Engineering (SCE) Ashdod, Israel

ID 82 Modeling the Dynamics of Petroleum Price Fluctuations using the System Dynamics Approach

Charlle Sy, De La Salle University, Philippines

2:00 – 3:45 pm, TUESDAY

Optimization

Onsite Hilton Room 4

Session Chair: Raul B. Guinitaran (CTU)

Student Volunteer: Eunice Reyes (Mapua)

ID 165 A Dynamic Simulation-Optimization Model for Revenue Optimization Study Case in Communication Company

Muhammad Rusman, Rosmalina Hanafi, Syarifuddin M. Parenreng and Elsha Millenia Baralangi, Industrial Engineering Hasanuddin University, Indonesia

ID 200 Optimizing the Hot-dip Galvanizing Process of Angle Bar Steel Product According to ISO 1461 Standard Using the Taguchi Method

Rakhma Oktavina, Department of Industrial Engineering, Gunadarma University, Depok, West Java, Indonesia

ID 68 Platelet Inventory Management with Demand and Supply Uncertainty and Variable Pricing Considerations

Mary Christiene Courtney Alegre, Kevin Go Chuang, Grina Kimberly Gallardo, Cristina Beatrice Mallari, Aaron William Sy and Dr. Jayne Lois San Juan, Department of Industrial and Systems Engineering, Gokongwei College of Engineering, De La Salle University, Manila, Philippines

ID 461 Solving complex FJSP using a multi-agent system

Manojkumar R. Pal, Murari L. Mittal and Gunjan Soni, Department of Mechanical Engineering, Malaviya National Institute of Technology (MNIT), Jaipur, India

ID 231 Workload balancing for stability test using a mixed integer programming model

Waritsara Woraruthai, Department of Industrial Engineering, Chulalongkorn University, Bangkok, Thailand
 Wipawee Thammaphornphilas, Assoc.Professor of Industrial Engineering Department, Chulalongkorn University, Bangkok, Thailand

ID 285 Hierarchical Production Planning Approach in a Continuous Production System: A Case Study

Rifat G. Ozdemir, Department of Industrial Engineering, American University of the Middle East, Egaila, Kuwait
 and Abdulelah Ali, Department of Industrial Engineering, Jazan University, Jazan 45142, Saudi Arabia

ID 623 Decision Analysis for Biomass Utilization in Bioenergy Development in Palm Oil Mill

Fitra Lestari, Fani Afida Faroha and Petir Papilo, Industrial Engineering Department, Faculty of Science and Technology, State Islamic University Sultan Syarif Kasim Riau, Indonesia
 Marimin, Department of Agro-industrial Technology, IPB University (Bogor Agricultural University)

2:00 – 3:45 pm, TUESDAY**Undergraduate Research Competition****Onsite Hilton Room 5**

Session Chair: Francis L. Mayo (USC)

Student Volunteer: Kristina Ana Draculan (Mapua)

ID 26 A New Approach to Evaluate the Impact of SNS on Market

Kenshiro Tammachi, Advanced Course in Production Systems Engineering, Salesian Polytechnic, Machida, Tokyo, Japan
 Yoichi Shimakawa, Department of Computer Science and Technology, Salesian Polytechnic, Machida, Tokyo, Japan
 Taiki Otsuka, Faculty of IT and Business, Cyber University, Fukuoka, Japan
 Hiroyuki Goto, Department of Industrial and Systems Engineering, Hosei University, Tokyo, Japan

ID 172 Redesigning Electronic Recruitment Platform to Optimize the Utilization of the Users in the Philippines: Applying Ordinal Regression Analysis

Lovynne Claire Montojo, Monessa Sales, John Carlo Ydel, John Carlo Sicat, Laurice Gonzales and Ma. Teodora Gutierrez, Technological Institute of the Philippines, Philippines

ID 100 TilaLOOK: A PLS-SEM Study for an Agile-based Online Platform for Frozen Processed Chicken Meat Supply Chain

Abdullah Galo, Gwyneth Panganiban, Venusmar Quevedo and Sheila Mae Carungay, Department of Industrial Engineering, College of Engineering Adamson University, Manila, Philippines

ID 632 The Influence of Wi-Fi Rays on Human Cell Cultures: The Difference Between Cancer and Non-cancer Cells

Mher Kurghinyan, Yerevan State Medical University and Institute of Molecular Biology NAS RA Abovyan, Armenia
 Mane Kurghinyan, Yerevan State Medical University, Abovyan, Armenia
 Rubina Harutyunyan, C YSMU "Heratsi" high school, Yerevan, Armenia

ID 670 Use of Taguchi Method-Based Design of Experiments (DOE) in the Optimization of the Drilling Parameters of Structural A572 Steel

Guia Lorraine R. Ong, Johan Mikaela A. Simon, Jonah Marie T. Chan, Warren Miguel G. Benito, and Nestor R. Ong, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines

2:00 – 3:45 pm, TUESDAY**Operations Management****Online Room 6**

Session Chair: Marco Fernando Ruiz Ruiz, Universidad de Lima

Student Volunteer: Julie Christine Pindug (SLU)

ID 164 Incentive Mechanism of Blockchain Technology in Sharing Economy

Souradeep Koley and Mukesh Barua, Research Scholar, Indian Institute of Technology Roorkee, Professor in Department of Management Studies Indian Institute of Technology Roorkee, Uttarakhand, India

ID 22 Comparative Studies of Aloe Vera Powder and Alum to Remove Turbidity in Raw Water

Achint, MTech (Environmental Engineering), Department of Civil Engineering, National Institute of Technology (NIT), Kurukshetra, India
 S. Deswal, Professor in Civil Engineering, National Institute of Technology (NIT), Kurukshetra, India

ID 337 Integration of Microsoft Office 365 with Kahoot in Math Learning

Irmayanti, Tadris Matematika, Universitas Islam Ahmad Dahlan Sinjai, Indonesia
 Kasriana, Pendidikan Matematika, Universitas Darussalam Ambon, Indonesia
 Rasid Ode, Pendidikan Matematika, Universitas Darussalam Ambon, Indonesia

ID 287 How does Self-Discrepancy Influences the Creation of Virtual Fashion Avatar in Digital Fashion?

Christabel Annora Paramita Parung, Brian Kurniawan Jaya, Dian Prianka and Viviany Viviany, Faculty of Creative Industries, University of Surabaya Surabaya, Indonesia

ID 373 Oil Palm Smallholder SMEs Business Model Innovation: A Review

Jajang Supriatna, Post Doctoral Student, Economy and Business Science, Faculty of Economy and Business, Mercu Buana University, Jakarta, Indonesia
 Djumarno, Ahmad Badawy Saluy and Deden Kurniawan, Economy and Business Science, Faculty of Economy and Business, Mercu Buana University, Jakarta, Indonesia

ID 510 KausAPP: A Booking Mobile Application for Easier Access of Filipino Students to University Teleconsultation Services

Clark Edelaine Almerol, John Griffin Faculin, Ms. Anna May Ramos, and Venusmar C. Quevedo, Industrial Engineering Department, College of Engineering, Adamson University, Manila, Philippines

3:45 pm Afternoon Networking Coffee Break – Foyer Area of Hilton Hotel

March 7, 2023 (Tuesday) - Session: 4:00 – 5:45 pm

4:00 – 5:45 pm, TUESDAY**Panel Global Engineering Education****Onsite Hilton Room 1**

Panel Chair

Student Volunteer: Julia Arcen L. Diego (UPD)

Engr Lourdes P. Lasian, PIE
Chairperson
Department of Industrial Engineering
Adamson University
Manila, Philippines

Panel Speaker I

Engr. Nestor Rubio Ong
Full-time faculty member
Deputy Director of the University of Santo Tomas' Office of QS/THE Rankings
Philippines

Panel Speaker II

James Louie R. Meneses, PhD, CIE, AAE
Assistant Professor, Researcher, and Consultant
Philippines

Panel Speaker III

Engr. Alexa Ray Fernando
Senior Research Management and Publication Director
Immediate Past Dean of the College of Engineering
National University, Philippines
Immediate Past First Vice President and Secretary of the Philippine Association of Engineering Schools, Inc.

Engineering Education 5.0: Bringing Back Humanity

Panel Speaker IV

Dr. Lianna Wijaya
Management Department
BINUS Online Learning
Bina Nusantara University
Jakarta, Indonesia

4:00 – 5:45 pm, TUESDAY**Panel - Lean Six Sigma****Onsite Hilton Room 2**

Panel Chair

Student Volunteer: Angelo Bien C. de Chavez (UPD)

Dr. Felix C. Veroya, CIE, AAE, CLF, CKF, MBB, CSM, DHum
Certified Lean Facilitator, Lean Six Sigma Master Black Belt and Certified Sprint Master
Founder & CEO, Ask Lex PH Academy
Co – Founder & Head of Strategic Partnerships, Farm Box
Manila, Philippines

Panel Speaker I

Innah Dominique Puertollano
Senior Manager, Continuous Improvement
Dexcom
Manila, Philippines

Panel Speaker II

Jonizon C. Paez
Past Director – Slider Manufacturing and NPI Engineering
Sta. Rosa City, Laguna, Philippines

Panel Speaker III

Kaycelyn Cedo Valenzuela
San Vicente Sto. Tomas, Batangas, 4234, Philippines
Aug'22 – Present TelePhilippines (TPPH) – Process Excellence and Transformation Sr Manager
TPPH Mandaluyong, Philippines (EDSA Greenfield) – WAHA USA

Panel Speaker IV

Engr. Anne Jonai Pascual
 Certified Lean Six Sigma Green Belt, CLSSGB
 Project Management Fundamental Certified, PMFC
 Masters in Management Major in Productivity and Quality Management, MM-PQM
 Lean Management And Innovation Senior Expert
 Bayer Business Services Philippines, Taguig City

4:00 – 5:45 pm, TUESDAY Doctoral, Masters and Senior Design Competitions Onsite Hilton Room 3

Session Chair: Judging Committee

DOCTORAL DISSERTATION COMPETITION**ID 237 A Biomimetic Framework for Evaluating the Functional Trait Diversity and Adaptive Capacity of the Firm**

Manuel Christian Orias, PhD Student, Industrial Engineering, De La Salle University, Manila, Philippines

ID 634 Exploring the Link Between Organization Justice and Turnover Intentions: Evidence from The Higher Education

Noor Azlina Yusoff, Student of Doctor Philosophy, Faculty of Business, Economics and Social Development, University Malaysia Terengganu
 21030 Kuala Nerus, Terengganu, Malaysia
 Universiti Sains Malaysia, Penang, Malaysia
 Yusliza Mohd Yusoff, Professor of Business, Economics and Social Development Faculty, University Malaysia Terengganu, Kuala Nerus,
 Terengganu, Malaysia

MASTERS THESIS COMPETITION**ID 218 Designing Guilt into Social Distancing Posters to Promote Compliance**

Eugene Angelo Subang, De La Salle University – Manila, Philippines

ID 273 Exploring the ecological impact of public transportation modes: Implications for sustainable developing cities: A case of Johannesburg

Sharon Rikhotso, Trynos Gumbo and Thembanani Moyo, University of Johannesburg, South Africa

4:00 – 5:45 pm, TUESDAY Supply Chain Management Onsite Hilton Room 4

Session Chair: Dyanne Brendalyn Cavero (CTU)

Student Volunteer: Eunice Reyes (Mapua)

ID 99 Analysis of Critical Barriers to Sustainability in Packaging Supply Chain using Fuzzy Best Worst Method

Gulshan Kumar Gaur and Jitender Madaan, Department of Management Studies, Indian Institute of Technology Delhi, IIT Delhi Main Rd, IIT Campus, Hauz Khas, New Delhi, India

ID 61 Integration of Water Footprint Measurements in a Supply Chain Optimization Model

Dennis E. Cruz, Assistant Professor of Industrial & Systems Engineering, Gokongwei College of Engineering, De La Salle University, Manila, Philippines
 Raymond R. Tan, Full Professor of Chemical Engineering, Vice Chancellor for Research and Innovation, De La Salle University, Manila, Philippines

ID 346 Lean-Green Supplier Evaluation in Indian Manufacturing Company: A Case Study

Arvind Jayant, Department of Mechanical & Automation Engineering, Indira Gandhi Delhi Technical University (IGDTUW), Delhi, India
 Vaibhav Gupta, Department of Mechanical Engineering, Sant Longowal Institute of Engineering and Technology, Punjab, India
 Dhanjay Yadav, Department of Management, Indira Gandhi Delhi Technical University (IGDTUW), Delhi, India

ID 557 Employing the Internet of Things to Attain Resilience Across Supply Chain

Moayad Al-Talib, Centre for Supply Chain Improvement, University of Derby, Derby, UK
 Wasen Y. Melhem, Computer Information Systems, Yarmouk University, Irbid, Jordan
 Simon Peter Nadeem, Anthony I. Anosike and Jose Arturo Garza-Reyes, Centre for Supply Chain Improvement, University of Derby, Derby, UK

ID 556 Assessment of Factors Influencing Purchase Intention for Green Cosmetic Products

Neha Anchiya, Department of Management Studies, Malaviya National Institute of Technology Jaipur, India
 Sandip Agarwalla, Department of Management Studies, Malaviya National Institute of Technology Jaipur, India
 Akshay Patidar, Department of Management Studies, Malaviya National Institute of Technology Jaipur, India
 Monica Sharma, Associate Professor, Department of Management Studies, Malaviya National Institute of Technology Jaipur, India

4:00 – 5:45pm, TUESDAY Industry 4.0 and Sustainability Onsite Hilton Room 5

Session Chair: Dr. Yash Daultani, Indian Institute of Management Lucknow, India

Student Volunteer: Kristina Ana Draculan (Mapua)

ID 156 Exploring the Role of Smart Technologies in Supply Chain Digital Transformation

Jeetu Rana and Yash Daultani, Operations Management Group, Indian Institute of Management Lucknow, Lucknow, India
 Mohit Goswami, Operations Management Group, Indian Institute of Management Raipur, Raipur, India

ID 195 Emerging Trends in Healthcare 4.0: An Indian Perspective

Sushil Kumar, Operations Management Group, Indian Institute of Management Lucknow, Lucknow 226013, India

ID 561 Re-classifying Digital Twin from the Perspective of Implementation Purpose

David YK Chan, Advent2 Labs Consultation Pte Ltd, Director, Singapore Institute of Technology, Adjunct Lecturer, Singapore

ID 575 Continuous Improvement (CI) Methodology: A Sustainability Mechanism in SchoolsEvangeline A. Saculo and Teresa T. Buasan, Dep Ed Regional Office V, Rawis, Legaspi City, Philippines
Joretze S. Carandang, Schools Division Office, Naga City, Philippines**ID 222 Using Place-Based Outdoor Learning (PBOL) Teaching Model in Promoting Students' Conceptual Understanding of Ecological Concepts**

Joy C. Chavez, Education Program Supervisor, DepEd Regional Office V (Bicol), Rawis, Legaspi City, Philippines

4:00 – 5:45pm, TUESDAY**Quality and Technology Management****Online Room 6**

Session Chair: Jazmin Tangsoc (DLSU)

Student Volunteer: Cheryl Patricia Uy (DLSU)

ID 6 The Relationship Between Leadership style, Artificial Intelligence and Employees Performance: A Review paper

Mansour Sulaiman Alshamisi, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat, Johor, Malaysia

Aryani Binti Ahmad Latiffi, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Parit Raja, Batu Pahat, Johor, Malaysia

ID 133 Server Virtualization Framework for Amhara Health Bureau, EthiopiaHailemariam Admasu, Department of Information Systems, College of Informatics, Hawassa University, Hawassa, Ethiopia
Workshet Lamenu, Department of Information Science and Systems, School of Information Science, Addis Ababa University, Addis Ababa, Ethiopia
and Sisay Mganaw, Department of Information Systems, College of Informatics, Wollo University, Kombolcha, Ethiopia**ID 527 Application of an Integrated Model to Manufacturing Sector's Carbon Emission**Jude James, Department of Industrial Engineering, Durban University of Technology, South Africa
Institute of Systems Science, Durban University of Technology, South Africa
Oludolapo Olanrewaju, Department of Industrial Engineering, Durban University of Technology, South Africa
Kevin J. Duffy and Obiora C. Collins, Institute of Systems Science, Durban University of Technology, South Africa**ID 430 Improving the quality of higher education based on risk assessment with Failure Mode Effect Analysis (FMEA)**Hana Catur Wahyuni, Industrial Engineering, Universitas Muhammadiyah Sidoarjo, Sidoarjo, East Java, Indonesia
Hidayatulloh, Science Education, Universitas Muhammadiyah Sidoarjo, Sidoarjo, East Java, Indonesia
Mahardika Darmawan Kusuma Wardana, Basic Education, Universitas Muhammadiyah Sidoarjo, Sidoarjo, East Java, Indonesia**ID 205 Inventory Management Improvement on Feed Mills at San Jose Batangas: Macro Based System Using Integer Linear Programming**

Glenda Marie D. Balitaan, Professor of Industrial Engineering, De La Salle Lipa, Batangas, Philippines

ID 83 Joint Replenishment Dealing with Various Inventory PoliciesVictor Suhandi, Ph.D. Candidate, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Chungli, Taoyuan, Taiwan
Lecturer, Department of Industrial Engineering, Universitas Kristen Maranatha, Bandung, Indonesia
Ping-Shun Chen, Professor, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Chungli, Taoyuan, Taiwan**ID 699 Hybrid Internet of Things and Petri Nets for tool condition monitoring system in CNC Machines**

Khaled N. Alqahtani, Industrial Engineering Department, College of Engineering, Taibah University, Medina 42353, Saudi Arabia

March 8, 2023 (Wednesday)

March 8, 2023 (Wednesday) - Session: 8:00 – 9:30 am

8:00 – 9:30 am, WEDNESDAY**Plenary - Industry Solutions I****Onsite Hilton Room 1**

Session Chair: Anthony Chiu

2:00 pm – 2:20 pm, Wednesday, March 8

Mynard Bryan R. Mojica
Deputy Director
Policy Development Group
Financial Inclusion Office
Bangko Sentral ng Pilipinas
Calabarzon, Philippines

2:20 pm – 2:40 pm, Wednesday, March 8

Marvin Dela Pena Rafols
Human Resources Manager

Universal Robina Corporation
Cebu, Central Visayas, Philippines

2:40 pm – 3:00 pm, Wednesday, March 8

Bryan Jay Capistrano, IE, MSc. in IEM
Senior Process Engineer
Toyota Motor Philippines Corporation
Manila, Philippines

3:00 pm – 3:20 pm, Wednesday, March 8

Raymund Canalita
Supply Chain Operations & Industrial Engineering Manager
ON Semiconductor Cebu Philippines, Inc. or Onsemi Cebu
Cebu, Philippines

3:20 pm – 3:40 pm, Wednesday, March 8

Grace Nacorda
Operations Manager
Knowles Electronics
Cebu, Central Visayas, Philippines

3:40 pm – 4:00 pm, Wednesday, March 8

Alex Ocampo
CEO & Chief Executive Consultant
Continuous Improvement Training & Consulting
Cebu, Central Visayas, Philippines

8:00 – 9:30 am, WEDNESDAY

Industry Solutions Panel

Onsite Hilton Room 2

Panel Chair

Student Volunteer: Eisha Denise Belmonte (Mapua)

Dr. Nanette T. Salazar, PIE, ASEAN ENGG
Chairperson
Department of Industrial Engineering
University of San Jose Recoletos
Cebu, Philippines

Panel Speaker I

Engr. Joshua I. L. Palisoc, CIE, AAE, CLSSGB, MSIE, MSDS
Chief Operations Officer
Ask Lex PH Academy
Manila, Philippines

Panel Speaker II

Ahad Ali, Ph.D.
Associate Professor
Director, Bachelor of Science in Industrial Engineering (BSIE)
Director, Master of Science in Industrial Engineering (MSIE)
Director, Graduate Certificate in Lean Six Sigma
Director, Smart Manufacturing and Lean Systems Research Group
Coordinator, Siemens Electro-Matic Industrial Engineering Lab
A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University, Southfield, Michigan, MI 48075, USA

Panel Speaker III

Engr. Annabelle B. Magsino
MSIEM, LPT, CLYSSYB, PMFC, SO2
Program Head - Industrial Engineering Department
College of Engineering and Architecture
University of Batangas, Lipa Campus

8:00 – 9:30 am, WEDNESDAY

Operations Management

Onsite Hilton Room 3

Session Chair: Fritz Nichole D. Abad (USC)

Student Volunteer: Eunice Reyes (Mapua)

ID 378 Optimization of Czochralski Process (Cz) Process Using Cooling Tube Thermal Shield: Simulation Approach

Amir R. A. Dezfoli, Assistant Professor, Department of Intelligent Automation Engineering, National Chin-Yi University of Technology, Taichung, Taiwan

ID 175 Qualitative Delay Analysis of Prey Predator Model with Allee Effect

Kalyan Das, Department of Basic and Applied Sciences, National Institute of Food Technology Entrepreneurship and Management, HSIIDC Industrial Estate, Kundli, Haryana, India

ID 210 A systems dynamics model for assessing the feasibility of decentralised water reclamation systems. A case study of Diepsloot township

Fhulufhelo Phillis Tshililo, University of Johannesburg, Department of Quality and Operations Management, Faculty of Engineering and Built Environment, Johannesburg, South Africa
 Human Sciences Research Council, Developmental, Capable and Ethical States, Pretoria, South Africa
 Shingirirai S. Mutanga, Council for Scientific and Industrial Research, Climate Services, Smart Places, Pretoria, South Africa
 Trynos Gumbo, Sustainable and Smart Cities and Regions Research Unit, University of Johannesburg, Department of Urban and Regional Planning, Faculty of Engineering and Built Environment, Johannesburg, South Africa

ID 4 Modeling the Spread of Fake News on Social Networking Sites using the System Dynamics Approach

Aleena Concepcion and Charlle Sy, Department of Industrial & Systems Engineering, Gokongwei College of Engineering, De La Salle University Manila, Philippines

ID 592 Sustainable Warehouse Features: A Systematic Literature Review

Walid Khalid Al-Saad, Moayad Al-Talib, Jose Arturo Garza-Reyes and Simon Peter Nadeem, Centre for Supply Chain Improvement, University of Derby, Derby, United Kingdom

ID 612 Lifecycle Carbon Emissions of Energy Sources for 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

ID 618 Design and Evaluation of Aquaponics System

Ike A. Baguio, Instructor of Industrial Engineering, Cebu Technological University Main-campus, Corner M. J Cuenco Ave. and R. Palma St. Cebu City, Philippines
 Raul B. Guinitaran, Instructor of Industrial Engineering, Cebu Technological University Main-campus, Corner M. J Cuenco Ave. and R. Palma St. Cebu City, Philippines

8:00 – 9:30 am, WEDNESDAY**Innovation****Onsite Hilton Room 4**

Session Chair: Christine Omela V. Ocampo (CTU)

Student Volunteer: Kristina Ana Draculan (Mapua)

ID 280 Autonomous Drawing Robot for Industrial Applications

Said Kafumbe, Faculty of Engineering Technology and Science, Higher Colleges of Technology, United Arab Emirates

ID 281 Real-time embedded IoT based industrial and indoor gas detection and monitoring system

Said Kafumbe, Faculty of Engineering Technology and Science, HCT, United Arab Emirates

ID 279 Three-Dimensional Manufactured Replacement Robotic Arm

Said Kafumbe, Faculty of Engineering Technology and Science, Higher Colleges of Technology, United Arab Emirates

ID 501 Development of Low-Cost Prosthetic Using Circular Economy Approach for Disability in Indonesia

Djoko Kuswanto, Department of Industrial Design, Faculty of Creative Business and Digital Business, Department of Medical Technology, Faculty of Intelligence Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
 Evi Triandini, Department of Information System, Faculty of Informatics and Computers, Institute Technology and Business STIKOM Bali, Denpasar, Indonesia
 Imam Baihaqi, Department of Business Management, Faculty of Creative Business and Digital Business, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia
 Adhi Dharma Wibawa, Department of Medical Technology, Faculty of Intelligence Electrical and Informatics Technology, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
 Panji Satrio Mahardhika, International Management and Design Innovation, University of Glasgow
 M.Y. Alief Samboro, Gunanda Tiara Maharany, Ahmad Rieskha Harseno, Ahmad Nur Firmansyah and Nadya Paramitha Jafari, Department of Industrial Design, Faculty of Creative Business and Digital Business, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 383 Role of Disruptive Technologies in realizing Virtual Tourism

Sindhu R Babu, Asst. Professor, School of Tourism Studies, Mahatma Gandhi University, Kottayam, Kerala, India
 Suresh Subramoniam, Director, Department of Business Administration, College of Engineering, Trivandrum, India

ID 689 The Role of Smart Fishermen Villages Toward Sustainable Development: A Preliminary Multi Case Study in Indonesia and Malaysia

Dion Achmad Armadi : Faculty of Economics and Business, Universitas Pakuan, Bogor Indonesia
 Hendro Sasongko: Faculty of Economics and Business, Universitas Pakuan, Bogor Indonesia
 Hari Muharam: Faculty of Economics and Business, Universitas Pakuan, Bogor Indonesia
 Yuany Farradia: Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Malaysia.

8:00 – 10:20 am, WEDNESDAY**Lean – Technical Presentations and Keynotes****Virtual Room 6**

Session Chair: Charlton Lance S. Reyes, University of Santo Tomas

ID 578 Use of Taguchi Method-Based Design of Experiments (DOE) in the Optimization of the Drilling Parameters of Structural A572 Steel

Guia Lorraine R. Ong, Johan Mikaela A. Simon, Jonah Marie T. Chan, and Warren Miguel G. Benito, Research Adviser: Engr. Nestor R. Ong, MSIE, PIE, ASEAN Eng, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines

ID 581 The Garden Battle: A Comparative Study on the Tensile Properties between Corn-based and Cassava-based Bioplastics

Damirson A. Co, Lourd Albert T. Bañaga, Daniel Marco M. Dela Concha, Darcy C. Mariano and Charlton Lance S. Reyes, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, España Blvd, 1015, Manila Philippines

ID 652 Packaging Design with Consumer Behavior Perspective: A Literature Review

Sutrisno, Doctoral Program at Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember Surabaya
I Ketut Gunarta, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember Surabaya
Erwin Widodo, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember Surabaya

ID 653 The Effect of Service Quality and Price on Customer Satisfaction and Loyalty in Telkomsel Cellular Operator Services

Agung Suryahadiningrat Kusumanegara, A student Faculty of Economics and Business, Telkom University, Faculty of Economics and Business
Telkom University, Bandung, Indonesia
Indira Rachmawati, Marketing & Consumer Studies, Faculty of Economy & Business, Telkom University, Bandung, Indonesia

ID 654 Towards Predicting Student's Dropout in Higher Education Using Supervised Machine Learning Techniques

Raven Miguel M. Capuno, Chester Julian M. Ferrer, Brian Troy L. Manaloto and Sean Redd Villafria, College of Computer Studies, Angeles University Foundation, Angeles City, Philippines
James A. Esquivel, College of Computer Studies, Faculty, Angeles University Foundation, Angeles City, Philippines

ID 655 Lean Manufacturing Tools for Operations Management based on PDCA cycle

Alvarez-Mosquera Pedro José and Arce-Ureña Daniela Estefanía, Business Administration School, Universidad del Azuay, Cuenca, Ecuador
Juan Manuel Maldonado-Matute, María Jose Gonzalez Calle, Ana Carolina Armijos-Orellana and and Pedro Fernando Guerrero Maxi, UDA Business Observatory, Bussiness Administration School, Universidad del Azuay, Cuenca, Ecuador

ID 696 Evaluation of the dredging work method at entrance channel and harbor pool terminal kalibaru phase 1b tanjung priok port-based risk to improve time performance

Muhammad Bayu Tanyo Wicaksono, Department of Civil Engineering, University of Indonesia, Depok, 16531, Indonesia
Yusuf Latief, Professor of Civil Engineering Department, University of Indonesia, Depok, 16531, Indonesia

Online Keynote Talks – Modarator: Prof. Don Reimer

Prof. Sardar M. N. Islam (Naz) Ph. D., LL. B. (Law)

Professor, ISILC, Victoria University, Melbourne, Australia.
Distinguished Visiting Professor of Artificial Intelligence, UnSri.
Adjunct Professor of IT and Business, Armstrong Institute, Melbourne.
Editor-in-Chief of "International Transactions on Artificial Intelligence".

Dr. M. Manzoor Hussain

Registrar
Professor, Department of Mechanical Engineering
Jawaharlal Nehru Technological University (JNTU)
Hyderabad, Telangana, India

9:30 – 10:00 am Morning Networking Coffee Break – Foyer Area of Hilton Hotel

March 8, 2023 (Wednesday) - Session: 10:00 am – 1:00 pm

Keynote Speakers

Hilton Hotel Ballroom

10:20 am – 11:00 am Keynote V:

Professor Charles Mbohwa, Ph.D.

Professor at University of Johannesburg, South Africa
Past Pro-Vice Chancellor Strategic Partnerships and Industrialisation, University of Zimbabwe, Harare, Zimbabwe

11:00 am – 11:40 am Keynote VI:

Jeremy Lim

Business Process Transformation Vice-President
 Robotic Process Automation (RPA) and Workflow Program Lead
 Robinsons Bank Corporation
 Manila, Philippines

11:40 am – 12:20 pm Keynote VII:

Dr. Marcelo Ang

Professor of Control & Mechatronics
 National University of Singapore

12:20 pm – 01:00 pm Keynote VIII:

Dr. Fitra Lestari

Vice Dean for Academic Affairs in Faculty of Science and Technology
 Professor in Industrial Engineering Department
 Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

IEOM Student Chapter UIN SUSKA Riau Presentation

1:00 – 2:00 Lunch Break
Buffet Lunch Provided

March 8, 2023 (Wednesday) - Session: 2:00 – 3:45 pm

2:00 – 3:45, WEDNESDAY

Plenary - Industry Solutions II

Onsite Hilton Room 1

Session Chair: Dr. Abdul Talib Bon

2:00 pm – 2:20 pm, Wednesday, March 8

Marciano B. Hermo IV, MBA, LSSMBB
 Founder and Managing Director, INNOVEO Consulting
 Faculty Member, Miriam College, Higher Education Unit
 Board of Trustee, Entrepinoy Volunteers Foundation, Inc.
 Manila, Philippines

2:20 pm – 2:40 pm, Wednesday, March 8

Zarren Aleta Gaddi, CLSSYB
 Data Analytics Specialist, San Felipe Neri Catholic School
 Professor, Jose Rizal University
 Manila, Philippines
 Maximizing Data Analytics in the Classroom and School Setting

2:40 pm – 3:00 pm, Wednesday, March 8

Ma. Teresa U. Bagaman
 Vice President and Head, Center for Innovation and Lifelong Learning, The Medical City (March, 2022)
 Director, Strategic Foresight and Healthcare Transformation (April, 2022 -current)
 Vice President, Innovation, Business Intelligence & Benchmarking
 Philippine Society for Quality (PSQ – current)
 Director, Education & Training & Board Member, Global Benchmarking
 Network (current – GBN Secretariat: Berlin)

Leading a Culture of Innovation in Healthcare through Lean Six Sigma 4.0

3:00 pm – 3:20 pm, Wednesday, March 8

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

Topic: Digital Woodworking Manufacturing for Industry 4.0

3:20 pm – 3:40 pm, Wednesday, March 8

Dr. G. Gopalakrishnan
B.E., M. Engg., Ph. D., Ph. D.(Cal.), Mem. ASME, FIE, CE(I), FIET (UK)
{Provost & formerly Rector / Vice Chancellor, Dr.MGR Edu.& Res. Instt. (DU)}
"The Palms", #22/14 Ramanathan Street, Kilpauk, Chennai 600010. India

2:00 – 3:45, WEDNESDAY

Business Management

Onsite Hilton Room 2

Session Chair: Antonio T. Esmero (USJ-R)

Student Volunteer: Eisha Denise Belmonte (Mapua)

ID 74 An Exploratory Study on Museum Visitorship Trends in Singapore

Aldy Gunawan, Liu Chentao, Heranshan S/O Subramaniam, Melissa Tan, Ranice Tan, Clarence Tay and Tasaporn Visawameteekul, School of Computing and Information Systems, Singapore Management University, Singapore

ID 614 Performance Analysis of Garissa Off-Grid Power Station

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 283 Strategic Technology Innovation Management and Leadership Theory – Knowledge Structure and Research Front Implications

Flavio Lobo and Mesut Akdere, Technology Leadership and Innovation Department, Polytechnic Institute, Purdue University, West Lafayette, IN 47907, USA

ID 690 Beef Freshness Detection Device Based on Gas and Color Sensors using the K- Nearest Neighbor Method

Asep Denih : Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor Indonesia
Irma Anggraeni: Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor Indonesia

2:00 – 3:45, WEDNESDAY

Sustainability

Onsite Hilton Room 3

Session Chair: Sam Aflaki, HEC Paris, France

Student Volunteer: Eunice Reyes (Mapua)

ID 159 Constructed Wetlands as Domestic Decentralized Wastewater Treatment Systems - A Systematic Review

Happison Muzioreva and Innocent Musonda, University of Johannesburg, Centre for Applied Research + Innovation in the Built Environment, Johannesburg, South Africa
Trynos Gumbo, University of Johannesburg, Department of Urban and Regional Planning, 55 Beit Street, Johannesburg, South Africa
Neema Kavishe, Ardhi University, Department of Building Economics, PO Box 35176, Dar Es Salaam, Tanzania, South Africa

ID 160 Constructed Wetlands for Wastewater Treatment: A Scientometric Review of Research Trends

Happison Muzioreva and Innocent Musonda, University of Johannesburg, Centre for Applied Research + Innovation in the Built Environment, Johannesburg, South Africa
Trynos Gumbo, University of Johannesburg, Department of Urban and Regional Planning, 55 Beit Street, Johannesburg, South Africa
Neema Kavishe, Ardhi University, Department of Building Economics, PO Box 35176, Dar Es Salaam, Tanzania, South Africa

ID 59 WEEE from the Source: An Empirical Investigation

Emy Ezura A. Jalil, Technology and Supply Chain Excellence Institute, School of Technology Management & Logistics, Malaysia
Musyriyah Mahmod, School of Computing, Universiti Utara Malaysia, Malaysia
Erni Salleh Awang Salleh, E-Idaman Sdn.Bhd., Kedah, Malaysia

ID 29 A Bibliometric Analysis of Dry Port Sustainability Research Trends

Zellalem Tadesse Beyene, School of Commerce, Addis Ababa University, Ethiopia
Simon Peter Nadeem, Centre for Supply Chain Improvement, University of Derby, UK
Matiwos Ensermu Jaleta, School of Commerce, Addis Ababa University, Ethiopia

ID 243 Drivers of Sustainable Supply Chain Management and the Gap in Implementation among Manufacturing Industries in Ethiopia

Mebrat Aregawi Weldemichael, Liverpool John Moores University, UK
Dr Simon Peter Nadeem, Centre for Supply Chain Improvement, University of Derby, Derby, UK

ID 288 Recovery Targets vs. Taxation/Subsidy Policies: The Impact on the Firm's Reusability Design Decisions

Sam Aflaki, HEC Paris, France

2:00 – 3:45, WEDNESDAY

Machine Learning

Onsite Hilton Room 4

Session Chair: Raul B. Guinitaran (CTU)

Student Volunteer: Kristina Ana Draculan (Mapua)

ID 410 Laser Cutting Time Estimate for Sheet Metal Parts of Various Geometries by Machine Learning Approach

Yean-Tzuo (Andrew) Hwang, Department of Mechanical Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan
Jun-Min Yang, Taiwan Semiconductor Manufacturing Company, Hsinchu, Taiwan

ID 179 Modelling for Control of Machining-Induced Residual Stresses in Difficult-to-Cut Materials to Enhance Their Functional Performance

Helmi Attia, Adj. Professor, Mechanical Engineering, McGill University, Principle Research Officer, Aerospace Manufacturing Technology Centre, National Research Council Canada

ID 357 Factors Affecting Online Learning Experience among Senior High School Students: A Self-Determination Theory Approach

Ardvin Kester S. Ong, Associate Professor, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines
Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 528 The Implementation of Continuous Improvement and Lean Manufacturing Techniques in a Competitive Manufacturing Environment

Prenisha Govender, Process Engineer, Toyota Boshoku South Africa, Durban, South Africa
Dr Mendon Dewa, Durban University of Technology, Durban, South Africa

ID 234 Investing in Information Systems Security under Asymmetric Information Sharing

Yueran Zhuo, Senay Solak and Yi Zou, Selcuk Ulugac, University of Massachusetts Amherst, United States

2:00 – 3:45, WEDNESDAY**Operations Management / Lean****Virtual Room 6**

Session Chair: Dennis Anthony Kilongkilong (USJ-R)

Student Volunteer: Sean Longos & Ace John Ting (USJ-R)

ID 555 Wire EDM and Optimization Techniques: A Review

Sami Ullah, Student of the Department of Mechanical and Aerospace Engineering, Air University, Islamabad, Pakistan
Shoaib Akram, Student of the Department of Mechanical and Aerospace Engineering, Air University, Islamabad, Pakistan
Dr. Hamid Ullah Niazi, Professor of the Department of Mechanical and Aerospace Engineering, Air University, Islamabad, Pakistan

ID 571 Improvement of Work Inspection Process in a Construction Project using Lean based Sustainability

Syeda Manahil Akhter, Dalal Abuhurma, Noora Al-Emadi, and Yasmeen Almutairi, Mechanical and Industrial Engineering Department, College of Engineering, Qatar University, Doha, Qatar
Galal M. Abdella, Associate Professor at the Department of Industrial Engineering, College of Engineering, Qatar University, Doha, Qatar

ID 104 Scientometric Review of Disability Inclusion in the Workplace

Neha Kumari and Dr. Usha Lenka, Department of Management Studies, Indian Institute of Technology Roorkee, Roorkee, Uttarakhand, India

ID 244 Crash Severity Predictive Models Using Machine Learning: Case Study: Riyadh, Saudi Arabia

Hussein Bachir, Master Student at the Civil Engineering Department, College of Engineering, King Saud University, Riyadh, Saudi Arabia
Mohammed Almannaa, Assistant Professor, Civil Engineering Department, College of Engineering, King Saud University, Riyadh, Saudi Arabia

ID 522 Food Waste Management Associated with Offshore Oil and Gas Fields

Jwahir M. Albreiki, Electrical Engineer, Health, Safety and Environment Engineering, Department of Industrial and Systems Engineering, Khalifa University, Abu Dhabi, United Arab Emirates
Noora Almansoori and Maryam Alkathheeri, Health, Safety and Environment Engineering, Department of Industrial and Systems Engineering, Khalifa University, Abu Dhabi, United Arab Emirates,
Saed Amer, Faculty Member, Industrial and Systems Engineering Department - Khalifa University, Abu Dhabi, United Arab Emirates

ID 656 Evaluation on Production Flow Using Line Balancing Method to Increase the Production Capacity of Spun Pile at PT. Adhi Persada Beton Plant Mojokerto - East Java

Andika Okayana, Civil Engineering Department, Faculty of Engineering, Universitas Indonesia, Kampus UI, Depok, 16424, Indonesia

ID 695 Economic Feasibility of the Sawibu Bay Bridge Construction in Manokwari, West Papua

Alfred Sanny Talaksoru, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia
Sri Wiwoho Mudjanarko, Senior Lecturer, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia
Edi Kuncoro, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia
Rizal Bahaswan, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia
Kadek Yadi Maryadi, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia

March 8, 2023 (Wednesday) - Session: 4:00 – 5:45 pm**4:00 – 5:45, WEDNESDAY****Panel Global Supply Chain****Onsite Hilton Room 1**

Session Chair: Stephanie Caridad DR. Landicho (UPLB)

Student Volunteer: Eisha Denise Belmonte (Mapua)

Panel Chair

Dr. Josefa Angelie Revilla
Chairperson, Department of Industrial Engineering
College of Engineering and Agro-Industrial Technology
University of the Philippines Los Baños
Laguna 4030 Philippines

Panel Speaker I

Professor Jose Arturo Garza-Reyes, Ph.D.
Professor of Operations Management
Head of the Centre for Supply Chain Improvement

College of Business, Law and Social Sciences
Derby Management School
University of Derby, United Kingdom (UK)

Panel Speaker II

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

Panel Speaker III

Manuel Joey Adriatico
Supply Chain & Manufacturing Executive
Calabarzon, Philippines

Panel Speaker IV

Dr. Ir. Yuany Farradia
Lecturer in Management (Marketing) Department
Faculty of Business, Economics and Social Development
Universiti Malaysia Terengganu, Malaysia

Circular Economy, Green and Sustainable Supply Chain Management in the Industry

4:00 – 5:45, WEDNESDAY

Onsite Hilton Room 2

FlexSim Introduction and Training

David Chan
MEngSc(UNSW), BEng(NUS), CPIM(APICS)
Advent2 Labs
Singapore

4:00 – 5:45, WEDNESDAY

Ergonomics and Health

Onsite Hilton Room 3

Session Chair: Francis L. Mayo (USC)

Student Volunteer: Eunice Reyes (Mapua)

ID 355 Physical Evaluation of General Health Facilities: An Ergonomic Approach

Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 354 An Ergonomic Risk Assessment Affecting the Musculoskeletal Disorder of Kitchen Staff: A Case of Restaurant Workers

Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 353 An Ergonomic Risk Evaluation of Lifting Operations in the Shipping Industry

Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 409 State-of-Health Prediction and Reliability Analysis of Li-ion Battery

Yu-Chen Hsu, Institute of Industrial Engineering, National Taiwan University Taipei, Taiwan

Ming-Hui Ou and Pin-Chen Wang, Department of Mechanical Engineering, National Taiwan University Taipei, Taiwan

Wen-Fang Wu, Department of Mechanical Engineering and Institute of Industrial Engineering, National Taiwan University Taipei, Taiwan

ID 211 A Machine Learning Approach to Determine the Determinants Causing Abrupt Sickness of University Students

Anik Mazumder, Dept. of Industrial and Production Engineering Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh
Toukir Ahamed, Department of Industrial and Production Engineering Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

Ferdous Sarwar, Professor and Head of the Department Industrial and Production Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh

4:00 – 5:45, WEDNESDAY

Business Analysis

Onsite Hilton Room 4

Session Chair: Dyanne Brendalyn M. Cavero (CTU)

Student Volunteer: Kristina Ana Draculan (Mapua)

ID 102 An Evaluation of Sustainability Knowledge and Practices of Undergraduate Engineering Programs

Sheila Mae Carungay and Lourdes Lasian, Department of Industrial Engineering, College of Engineering, Adamson University, Manila, Philippines

ID 93 An investigation of the strategies used by interactive technologies based on sensors and sensing systems in an industrial structure

Rabaya Nusrath Niva, Faculty of Engineering, Department of Architecture, Premier University, Chittagong, Bangladesh

M. Arch Student, Department of Architecture, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh

Jannatul Ferdous Binti, M. Arch Student, Department of Architecture, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

ID 106 Application Potentials and Knowledge Acquisition: Artificial intelligence in industrial companies' controlling departments
 Rudolf Grünbichler, Researcher, Faculty of Mechanical Engineering and Economic Sciences, Graz University of Technology, Graz, Österreich, Austria
 Alexander Sitter and Thomas Fenzl, Departement of Business Management, University of Applied Science, Villach, Österreich, Austria

ID 105 Assessment of a Train Station Facility in Relation to Its Design Dimensions Affecting Passenger Experience
 Regine A. Tejada and John Robert D. Asonza, Department of Industrial Engineering and Operations Research College of Engineering, University of the Philippines Diliman, Quezon City, Philippines

ID 407 Effect of Performance Discrepancy of Cells on the Reliability Analysis of an EV Battery Pack
 Pin-Chen Wang, Yung-Cheng Tseng and Wen-Fang Wu, Department of Mechanical Engineering, National Taiwan University Taipei, Taiwan

ID 207 Fine-grained Sentiment Analysis of Covid-19 Quarantine Hotels through Text Mining
 Raphael Gonda, Department of Business Administration, Changwon National University, Changwon-si, Gyeongnam, 51140, South Korea
 Jaehun Park, Associate Professor, Department of Business Administration, Changwon National University, Changwon-si, Gyeongnam, South Korea

4:00 – 5:45, WEDNESDAY**Case Studies****Virtual Room 6**

Session Chair: Jazmin Tangsoc (DLSU)

Student Volunteer: Cheryl Patricia Uy (DLSU)

ID 247 Analysis of Barriers Affecting Performance of Port Logistics in Industry 4.0 Era
 Bishal Dey Sarkar, Symbiosis Institute of Operations Management, Nashik, Symbiosis International (Deemed University), Pune, India
 Vipulesh Shardeo, Department of Operations and Analytics, Lal Bahadur Shastri Institute of Management, Delhi, India

ID 406 Halal Food Integrity: Systematic Literature Review and Research Agendas
 Wresni Anggraini, Student at Doctoral Program of Islamic Economy and Halal Industry, Gadjah Mada University, Indonesia
 Industrial Engineering Department, UIN Sultan Syarif Kasim Riau, Indonesia
 Wakhid Slamet Ciptono and Luluk Lusiantoro, Faculty of Economics and Business, Universitas Gadjah Mada, Yogyakarta, Indonesia
 Heru Kurnianto Tjahjono, Faculty of Economics and Business, Universitas Muhammadiyah Yogyakarta, Indonesia

ID 584 Exploring the Barriers to Implementing Solar Energy in an Emerging Economy: Implications for Sustainability
 Spandan Basak Payel and S.M. Faysal Ahmed, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh
 Md. Zahidul Anam and Md. Tanvir Siraj, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka 1000, Bangladesh

ID 626 Occupational Hazards in Sharjah's Masonry Industry: A Study of Physical and Chemical Risks
 Abdelrahman Ali Almerbarti and Mohammad Khadem, Department of Industrial Engineering and Engineering Management, University of Sharjah, UAE

ID 621 The future of automation in human based manufacturing: The case for manufacturing in South Africa
 Hilda Kundai Chikwanda, University of Pretoria, South Africa

ID 627 Reverse Logistics Practices cases analysis using Text analytics
 Sindhu Abbidi, Vishweshwar Gupta Komaravelli, Ashfaq Ali Baig, Rasuri Pranav and Dr.K. Sri Yogi, KLH Global Business School, Koneru Lakshmaiah Education Foundation, (Deemed to be University), Hyderabad Campus, Telangana State, India

ID 631 Mass Customization Best practices from case studies using a text analytics
 Pranavi Bhaskar Obbu, Satvika Ananthagiri, Anurag Patil and Dr. Kottala Sri Yogi, Associate Professor, KLH Global Business School, Koneru Lakshmaiah Education Foundation (Deemed- to-be University), Hyderabad, India

ID 658 Addressing the Methodological Challenges Associated with E-waste Estimation
 Nitin Koshta, Indian Institute of Management Amritsar, India

March 9, 2023 (Thursday)

March 9, 2023 (Thursday) - Session: 8:00 – 9:30 am

8:00 – 9:30, THURSDAY**Human Factors and Ergonomic Panel****Onsite Hilton Room 1**

Session Chair: Katherine D. Gavino (DLSU)

Student Volunteer: Kristina Ana Draculan (Mapua)

Panel Chair

Dr. Ma. Janice J. Gumasing
 Associate Professor
 School of Industrial Engineering and Engineering Management
 Mapua University, Manila, Philippines

PANEL SPEAKER 1:

Dr. Rex Aurelius C. Robielos

Operations Research Manager at Analog Devices

Former Dean of the School of Industrial Engineering and Engineering Management at Mapua University, Manila, Philippines

PANEL SPEAKER 2:

Dr. Ardivin Kester S. Ong

Faculty Member

School of Industrial Engineering and Engineering Management

Mapua University

Manila, Philippines

PANEL SPEAKER 3:

Dr. Yoshiki Kurata

Department of Industrial Engineering

Faculty of Engineering

University of Santo Tomas

Philippines

PANEL SPEAKER 4:

Engr. Klint Allen Marinas

Assistant Professor

School of Industrial Engineering and Engineering Management

Mapua University, Manila, Philippines

8:00 – 9:30, THURSDAY

Onsite Hilton Room 2

8:00 – 9:30, THURSDAY

Case Studies

Onsite Hilton Room 3

Session Chair: Miriam F. Bongo

ID 613 Levelized Cost of Electricity Generation Technologies

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 96 Performance Analysis of Bidirectional Associative Memory (BAM) and Feed Forward Multilayer Error Back-Propagation Network (BPN) (Neural Network) for Alphabetic English or Bangla Character Recognition by Applying Digital Image Processing and Neural Network Algorithm

Mainur Rahman Tarafder, IICT, BUET, Bangladesh

ID 405 Set Up 5P Model to Figure out The Different Factors of Innovation between Employees from Developing and Developed countries

Tran Thi Khanh Mai and Day Jen-Der, Applied Industrial Management Department, ROC, Taiwan

ID 60 The Potential Use of Flipped Classroom Model in Teaching Calculus in the 1st Year Engineering Classes of Guimaras State University

Engr. Joven C. Cablas, Guimaras State University, Buenavista, Guimaras, Philippines

ID 236 The Use of Collaborative Intervention to Reduce the Depression and Anxiety of Students with Learning Difficulties

Jean R. Baloloy, Public Schools District Supervisor, Schools Division Office of Albay, Department of Education, Region 5, Philippines

Rodel E. Pancho, Education Program Supervisor, Schools Division Office of Sorsogon Province, Department of Education, Region 5, Philippines

8:00 – 9:30, THURSDAY

Business Management

Onsite Hilton Room 4

Session Chair: Christine Omela V. Ocampo (CTU)

Student Volunteer: Julia Arcen L. Diego (UPD)

ID 294 Smart City for Every one

Dr. Alia Taha, The Kingdom of Saudi Arabia \ Taif University\ College of Engineering, Sudan\ Sudan University of Science and Technology\ College of Architecture & Planning, Saudi Arabia

Dr. Mamdooh Alwetaishi, The Kingdom of Saudi Arabia \ Taif University\ College of Engineering, Saudi Arabia

ID 162 Improving Production Efficiency Using Sensors

Ahmet Anil Kaya, Industrial Engineering Department, School of Engineering and Natural Sciences, Istanbul Medipol University, Istanbul, Turkey

Yusuf Eren Kılıç, Industrial Engineering Department, School of Engineering and Natural Sciences, Istanbul Medipol University, Istanbul, Turkey

Özgür Erol-Yeşilsirt, Industrial Engineering Department, School of Engineering and Natural Sciences, Istanbul Medipol University, Istanbul, Turkey

ID 63 Interplay Model of Technostress, Physical Discomfort, and Productivity among Teaching and Non-Teaching Employees of MSEUF: A Structural Equation Modeling Approach

Dr. James Louie R. Meneses, Dr. Maria Sylvia Avila and Van Barry Par, College of Engineering, Human Resource Department, Safety Office

Manuel S. Enverga University Foundation, Lucena City, Quezon, Philippines

ID 131 Investigating Challenges Facing the Performance of South African Construction Industry: An Exploratory Study

Maphutha Letsau Khutso and Morena William Nkomo, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, South Africa
 Stephan Molusiwa Ramabodu, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, South Africa

ID 408 Life Modeling and Reliability Analysis of Lithium-ion Batteries Used in Electric Vehicles

Pin-Chien Chao, Ling-Chen Wu and Wen-Fang Wu, Institute of Industrial Engineering, National Taiwan University, Taipei, Taiwan

8:00 – 9:30, THURSDAY

Operations Excellence

Virtual Room 6

Session Chair: Muhammad Ikhsan, Universitas Narotama

Student Volunteer: Marie Eugenie Marvil (SLU)

ID 585 Towards Predicting Student's Dropout in Higher Education Using Supervised Machine Learning Techniques

Raven Miguel M. Capuno, Chester Julianne M. Ferrer, Brian Troy L. Manaloto and Sean Redd Villafria, College of Computer Studies, Angeles University Foundation, Angeles City, Philippines
 James A. Esquivel, College of Computer Studies, Faculty, Angeles University Foundation, Angeles City, Philippines

ID 629 Improving Innovative Capabilities of Trucking Company: Action Research Approach

Kyatmaja Lookman, Interdisciplinary School of Management and Technology, Institut Teknologi Sepuluh Nopember, Indonesia

ID 628 Inventory Management System of Seasonal Raw Materials of Feeds at San Jose Batangas through Integer Linear Programming and VBA

Glenda Marie B. Napa, Professor of Industrial Engineering, DLSL-CITE Laboratory Head, College of Information Technology and Engineering De La Salle Lipa, Lipa City, Batangas, Philippines

ID 602 Multi-product inventory modeling with demand forecasting

José Antonio Taquía Gutiérrez, Universidad de Lima, Instituto de Investigación Científica, Carrera de Ingeniería Industrial, Lima, Perú
 Angie Valencia Olivares and Axel Mendoza Bojórquez, Universidad de Lima, Carrera de Ingeniería Industrial, Lima, Perú

ID 595 Transformer-based Conditional Language Models to Generate Filipino News Articles

Kenrick Lance T. Buñag, Student of BS Computer Science Program, College of Computer Studies, Angeles University Foundation, Angeles City, Philippines
 Rosanna A. Esquivel, Professor of Computer Science, BS Computer Science Program Chair, College of Computer Studies, Angeles University Foundation, Angeles City, Philippines

ID 615 Applying of Social Return on Investment (SROI); A Practical Review to Financial Social Value and Benefits

Al Akhyar Munthe, Magister of Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Universitas Sumatera Utara, Jln. Almamater, Kampus USU Medan Medan, Indonesia
 Nazaruddin, Lecturer of Department of Industrial Engineering, Faculty of Engineering, Universitas Sumatera Utara, Jln. Almamater, Kampus USU Medan Medan, Indonesia
 Meilita Tryana Sembiring, Lecturer of Department of Industrial Engineering, Faculty of Engineering, Universitas Sumatera Utara, Jln. Almamater, Kampus USU Medan Medan, Indonesia

ID 692 The Impact of Arfai-Pami Road Construction on Spatial Planning in Manokwari - Papua

Edi Kuncoro, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia
 Sri Wiwoho Mudjanarko, Senior Lecturer, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia
 Rizal Bahaswan, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia
 Kadek Yadi Maryadi, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia
 Alfred Sanny Talaksoru, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia

9:30 – 10:00 am Morning Networking Coffee Break – Foyer Area of Hilton Hotel

March 9, 2023 (Thursday) - Session: 10:00 am – 1:00 pm

Keynote Speakers

Hilton Ballroom

10:00 am – 10:20 am

Student Chapter Activities Presentation

10:20 am – 11:00 am Keynote IX:

Joyce Ramos

Senior Vice President

Head of Country and Business Development

LF Logistics Philippines

Manila, Philippines

11:00 am – 11:40 am Keynote X:

Dr. Rosnani Ginting
Head of Graduate Program of Industrial Engineering
Universitas Sumatera Utara, Indonesia

10:00 am – 10:40 am Keynote XI:

Dominic Ligot
Founder and Chief Technology Officer
CirroLytix
Manila, Philippines

10:40 am – 11:20 am Keynote XII:

Dr. Mohammad T. Khasawneh
Professor & Chair
State University of New York at Binghamton
Binghamton, New York, USA

1:00 – 2:00 pm Lunch Break
Buffet Lunch Provided

March 9, 2023 (Thursday) - Session: 2:00 – 3:45 pm

2:00 – 2:45, THURSDAY
Global Supply Chain and Logistics I
Onsite Hilton Room 1

Session Chair: Dr. Josefa Angelie Revilla (University of the Philippines-Los Banos)

Student Volunteer: Kristina Ana Draculan (Mapua)

2:00 pm – 2:20 pm

Rai Antonio De Jesus, MBA, CPSM®
VP & Group Head of IT Procurement
PLDT, Manila, Philippines

2:20 pm – 2:40 pm

Engr. Ricardo P. Rabang "PIE MSc CLSSMBB CBCP
Special Industry Lecturer
Technological Institute of the Philippines

2:40 pm – 3:00 pm

Renee Desquitado
Operations and Supply Chain Leader
Eaton Corporation
Calabarzon, Philippines

3:00 pm – 3:20 pm

Dr. Lanndon Ocampo
Associate Professor
Department of Industrial Engineering
Director, Center for Applied Mathematics and Operations Research
Cebu Technological University (CTU), Cebu, Philippines

3:20 pm – 3:40 pm

Dr. Anak Agung Ngurah Perwira Redi

Interim Head of Industrial Engineering Study Program
Sampoerna University, Jakarta, Indonesia

2:00 – 2:45, THURSDAY**Industry 4.0 Panel****Onsite Hilton Room 2**

Session Chair: Charlie Sy, DLSU

Student Volunteer: James Ryand O. Cadano (UPD)

Panel Chair

Regine Tejada
Assistant Professor
University of the Philippines – Diliman
Quezon City, Philippines

Panel Speaker I

Joyce Ramos
Senior Vice President
Head of Country and Business Development
LF Logistics
Manila, Philippines

Panel Speaker II

Dominic "Doc" Ligot
Founder, CEO and CTO, CirroLytix Research Services
Manila, Philippines

Panel Speaker III

Dr. Marcelo Ang
Professor, Department of Mechanical Engineering
National University of Singapore
Singapore

Panel Speaker IV

Walid Khalid Al Saad
Researcher, Centre for Supply Chain Improvement (CSCI)
University of Derby, UK

2:00 – 2:45, THURSDAY**OM****Onsite Hilton Room 3**

Session Chair: Fritz Nichole D. Abad (USC)

Student Volunteer: Shayne Nicole S. Trinidad (UPD)

ID 401 An empirical study on the approach of Indian MNCs towards sustainable development goals

S Arjun, Amrita School of Business, Bangalore, India
Maria Sabastin Sagayam, Amrita School of Business, Bangalore, Amrita Vishwa Vidyapeetham, India

ID 356 Demographic Clustering of Young Adults in Green Purchase Intentions: A K-Means Clustering Approach

Arvin Kester S. Ong, Associate Professor, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines
Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 21 Modeling the relationship between Overtime Rate and Manufacturing KPIs: A Case Study in the OSAT Manufacturing Company using CRISP-DM

Jonathan D. Mondero, Associate Professor, College of Business Administration and Accountancy, Graduate Studies in Business, De La Salle University – Dasmariñas, Cavite, Philippines
Jonathan Anthony C. Ac-ac, College of Computer Studies, Graduate School, De La Salle University, Manila, Philippines
Shenalie M. Lopena, College of Computer Studies, Graduate School, De La Salle University, Manila, Philippines
Christopher Josh A. Cuevas, College of Engineering, University of Santo Tomas, Manila, Philippines

ID 314 To Improve the Coefficient of Performance Using Engineering Equation Solver: Parametric Case Study of Vapor Absorption System at Thermal Power Station, Jamshoro

Engr Uhamir Patrick, Lecturer, Department of Mechanical Engineering Technology, The Benazir Bhutto Shaheed University of Technology and Skill Development, Khairpur Mirs, Sindh, Pakistan

ID 17 A novel framework to conduct sales forecasting and performance assessment for multinational airlines

ChihHsuan Wang, National Yang Ming Chiao Tung University, Taiwan

2:00 – 3:45, THURSDAY**Supply Chain Management****Onsite Hilton Room 4**

Session Chair: Raul B. Guinitaran (CTU)

Student Volunteer: Angelo Bien C. de Chavez (UPD)

ID 570 Municipality waste to energy value chain logistics in the city of Johannesburg

Tatenda Talent Chingono, University of Johannesburg, South Africa

ID 593 Sustainability as a competitive advantage: IKEA as a case study

Anan Alzoubi, Faculty of Business and Law, Anglia Ruskin University, Cambridge, United Kingdom

Moayad Al-Talib and Walid Khalid Al-Saad, Centre for Supply Chain Improvement, University of Derby, Derby, United Kingdom

ID 616 An analytical perspective: Indian Pharma Supply chain

Sundaravalli Narayanaswami, Indian Institute of Management, Ahmedabad, India

ID 610 Life Cycle Assessment of Power Generation Technologies

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 701 An Effective Tabu Search-Based Petri Net Method for Scheduling Crude Oil Refinery Operations with Preventive Maintenance

Husam Kaid, Industrial Engineering Department, College of Engineering, Taibah University, Medina 42353, Saudi Arabia

2:00 – 3:45, THURSDAY**Project Management****Virtual Room 6**

Session Chair: Francis L. Mayo (USC)

Student Volunteer: Sean Longos & Ace John Ting (USJ-R)

ID 588 Evaluation of The Dredging Work Method at Entrance Channel and Harbor Pool Terminal Kalibaru Phase 1b Tanjung Priok Port-Based Risk to Improve Time Performance

Muhammad Bayu Tanyo Wicaksono, Department of Civil Engineering, University of Indonesia, Depok, Indonesia

Yusuf Latief, Professor of Civil Engineering Department, University of Indonesia, Depok, Indonesia

ID 608 A Review Halal Food Supply Chain Practices Research

Ahmad Shalihin, PhD Student, Faculty of Engineering, Department Industrial Engineering, Universitas Sumatera Utara, Medan, Indonesia

Harmein Nasution, Professor of Industrial Engineering, Faculty of Engineering, Department Industrial Engineering, Universitas Sumatera Utara Medan, Indonesia

Iwan Vanany, Professor of Industrial Engineering, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember Surabaya (ITS), Surabaya, Indonesia

Juliza Hidayati, PhD Lecturer, Faculty of Engineering, Department Industrial Engineering, Universitas Sumatera Utara, Medan, Indonesia

ID 638 The Sustainability of Halal Supply Chain in Japan: Perspectives of Halal Certification Bodies (HCBs)

Norlena Hasnan, Universiti Utara Malaysia Kuala Lumpur, Jalan Raja Muda Abdul Aziz, 50300 Kuala Lumpur, Malaysia

Youji Kohda, School of Knowledge Science, Japan Advanced Institute of Science and Technology, Nomi, Ishikawa, Japan

ID 604 Detecting the Factors that Affect Renewable Energy Consumption

Nilüfer Pekin Alakoça, Melinda Oroszlányová, Hedi Mhalla and Noureyah Mahmoud Yaseen Alrasa, A College of Engineering and Technology

American University of the Middle East, Kuwait

ID 625 How green knowledge sharing enhances environmental performance: Test of serial mediation and moderation process

Nosheen Qadeer, PhD. Management & Economics, Tomas Bata University, Zlin CZ, Czech Republic

ID 688 Evaluation of Microbus-Based Public Transport Services Quality during the Covid-19 Pandemic in Sorong City

Kadek Yadi Maryadi, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia

Sri Wiwoho Mudjanarko, Senior Lecturer, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia

Rizal Bahaswan, Civil Engineering Study Program, Faculty of Engineering, Narotama University, Surabaya, Indonesia

ID 691 Analysis of Storage Layout in a Raw Material Warehouse Using A Shared Storage Policy: Case Study of PT. ABC (Electronic Goods Manufacturer)

Edo Rantou Wijaya and Yuniza Damayanti, ATI Polytechnic Padang, Indonesia

ID 700 Competency and Innovation on Street Vendors.

Susi Desmaryani, Research and Development Agency, Jambi Province. Indonesia and Lecturer at Faculty of Economics and Business,

Muhammadiyah University, Jambi Indonesia

Mardianis Mardianis, Research and Development Agency, Jambi Province. Indonesia

3:45 pm**Afternoon Networking Coffee Break – Foyer Area of Hilton Hotel****March 9, 2023 (Thursday) - Session: 4:00 – 5:45 pm****4:00 – 5:45, THURSDAY****Global Supply Chain and Logistics II****Onsite Hilton Room 1**

Session Chair: John Kenneth P. Punongbayan (UPLB)

4:00 pm – 4:20 pm

Engr. Mary Jane Dwyer

Strategic Continuous Improvement Leader

4:20 pm – 4:40 pm

Dr. Cosme Nonan

Director / GM of CFS Inc.

Professor / Practitioner Supply Chain Management and International Logistics

4:40 pm – 5:00 pm

Albert Wee Kwan Tan, PhD

Associate Professor and Academic Program Director, Online Master in Business Administration
Asian Institute of Management (AIM), Manila, Philippines

Digital Transformation of the Supply Chain

4:00 – 5:45, THURSDAY

Operations Excellence

Onsite Hilton Room 2

Session Chair: Jayson M. Barlan, Philippines University, Manila, Philippines

ID 514 Improving End-to-End Operational Process of Cloud Kitchens to Increase Profit: A Case Study on Lina's Kitchen

Shayne Nicole S. Trinidad, James Ryand O. Cadano, Angelo Bien C. de Chavez, Julia Arcen L. Diego and Regine A. Tejada, Department of Industrial Engineering and Operations Research, College of Engineering, University of the Philippines Diliman, Quezon City, Philippines

ID 601 The Role of Human Resources Competence in Improving Quality of The Financial Reports of The Indonesian State-Owned Enterprises

Yan Noviar Nasution, Accounting Department, Universitas Pakuan, Bogor, Indonesia
Yohanes Indrayono, Management Department, Universitas Pakuan, Bogor, Indonesia
Mutia Puspita Widyawati, Accounting Department, Universitas Pakuan, Bogor, Indonesia
Haqi Fadillah, Accounting Department, Universitas Pakuan, Bogor, Indonesia

ID 603 ETHNO: Drone-based Urban Profiling Ethnography Community Service

Dominic Vincent Ligot and Emily Jo Vizmonte, CirroLytix Research Services, Pasig City, Philippines

ID 611 Levelized Cost of Battery Storage Options

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

ID 650 Quality assurance on leadership and strategy: Basis for continuous quality improvement plan among higher education institutions

Jayson M. Barlan, Executive Director for Non-Academic Operations, Lyceum of the Philippines University, Manila, Philippines

ID 694 Synergy for optimizing regional genuine income maluku province momentum of economic recovery

Maryam Sangadji and Lussy R. Loppies, Universitas Pattimura, Ambon, Indonesia

4:00 – 4:45, THURSDAY

Industry 4.0

Onsite Hilton Room 3

Session Chair: Regine Tejada (UPD)

Student Volunteer: Kristina Ana Draculan (Mapua)

ID 180 Barriers Hindering the Effective Implementation of Industry 4.0 amongst Developing Countries -A Review

Thalente Lungile Nkosi, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, South Africa
Morena William Nkomo and Stephan Molusiwa Ramabodu, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, South Africa

ID 181 Fourth Industrial Revolution Game Changers: the case of South African tertiary institutions: A Literature review

Thalente Lungile Nkosi, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, South Africa
Morena William Nkomo and Stephan Molusiwa Ramabodu, Department of Construction Management and Quantity Surveying, University of Johannesburg, Johannesburg, South Africa

ID 481 Analysis Adoption of Information Technology Using the UTAUT Method on Off-taker Poultry Farmers in Indonesia

Evi Triandini, Department of Information Systems, Faculty of Informatics and Computers, Institute of Technology and Business STIKOM Bali Denpasar, Indonesia
I Gusti Ngurah Satria Wijaya, Department of Digital Business, Faculty of Business and Vocational Studies, Institute of Technology and Business STIKOM Bali, Denpasar, Indonesia
I Ketut Putu Suniantara, Riza Wulandari and Wayan Cahya Ayu Pratami, Department of Information System, Faculty of Informatics and Computers Institute of Technology and Business STIKOM Bali, Denpasar, Indonesia
Sugiarto, Department of Data Science, Faculty of Computer Science, UPN "Veteran" East Java, Surabaya, Indonesia
Ahmad Rosadi Djarkasih, Tribe Leader of Aquaculture and Fishery, Telkom Digital Business & Technology Division, PT. Telkom Indonesia
Agnesia Candra Sulyani and Niken Larasati, Indonesia Telecommunication & Digital Research Institute, PT. Telkom Indonesia, Bandung, Indonesia
Djoko Kuswanto, Department of Industrial Design, Faculty of Creative Business and Digital Business, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 23 Supporting Industrial Engineering Education through DennIE: A Low-cost Knowledge Management System

Raymond Frith A. Lagria, Enzo Bernardo Peralta, Peter Lee Jr., Paolo Detecio and Denis Jude Garay, Department of Industrial Engineering and Operations Research, College of Engineering, University of the Philippines Diliman, Quezon City 1101, Philippines

4:00 – 5:45, THURSDAY

Logistics

Onsite Hilton Room 4

Session Chair: Dyanne Brendalyn M. Cavero (CTU)

ID 136 Modelling Resilient Healthcare Supply Chain: A Hybrid Vulnerability-Capability Model with TISM-MICMAC Approach

Vikrant Giri and Prof Jitender Madaan, Department of Management Studies, IIT Delhi, Hauz Khas, New Delhi, India
Nikhil Varma, Anisfiled School of Business Ramapo College of New Jersey NJ 07430, USA

ID 57 Advanced Statistical Modeling of Severe and Fatal Road Injuries Due to Built Environment Factors

Sharaf AlKheder, Full Professor, Civil Engineering Department, College of Engineering and Petroleum, Kuwait University, Safat, Kuwait

ID 36 Bilevel Competitive Location and Design Problem with Market Effects

Tsung-Sheng Chang, Department of Transportation and Logistics Management, National Yang Ming Chiao Tung University, Hsinchu, Taiwan

ID 263 Green Logistics Practices in the Supply Chains and Operational Performance: Evidence of Nile Equatorial Lakes Subsidiary Action Program Coordination Unit Rusumo Construction Project

Alexis Uwamahoro, University of Rwanda (UR), College of Business and Economics (CBE), Kigali –Rwanda
Dr Simon Peter Nadeem, Centre for Supply Chain Improvement, University of Derby, Derby, DE22 1GB, U.K.
Dr Noor Ismail shale, Senior Lecturer at Jomo Kenyatta University of Agriculture and Technology (JKUAT) Nairobi, Kenya
Dr. Elizabeth Wachiuri, Lecturer at Jomo Kenyatta University of Agriculture and Technology (JKUAT) Nairobi, Kenya

ID 569 Reverse logistics modelling for sustainable waste management in the city of Johannesburg

Tatenda Talent Chingono, University of Johannesburg, South Africa

4:00 – 5:45, THURSDAY

Sustainability and Analytics

Virtual Room 6

Session Chair: Vishal Ashok Wankhede, Assistant Professor, Pandit Deendayal Energy University, Gandhinagar, India

ID 332 A Quantum Leap Towards More Effective and Efficient Smart Farming in Rural Areas Using IOT

Rubalavanyan Vamadeva, University of Dubai, BBA entrepreneurship final year student, United Arab Emirates
Nasser A. Saif Almuraqab, Dubai Business School, University of Dubai, United Arab Emirates
Yassin M Nour Khatib, First year student, mechatronics freelancer, United Arab Emirates

ID 635 Exploring the SaaS CRM Software's Selection Complexity of Vertical E-Commerce Company due to COVID-19 Post-Pandemic era in Indonesia using Soft System Methodology

Aldie Indra and Akhmad Hidayatno, Dept. of Industrial Engineering, Faculty of Engineering, University of Indonesia, Depok, West Java, Indonesia

ID 636 Developing a Sustainable Environmental Management Plan: A Case Study of a Readymade Garment Factory

Md. Kamrul Hasan Chowdhury and Md. Tanvir Siraj, Boiler Safety Engineer, RMG Sustainability Council, Dhaka, Bangladesh
Nazrul Islam, Department of Mechanical Engineering, Rajshahi University of Engineering and Technology, Rajshahi, Bangladesh
Spandan Basak Payel, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh
Debashis Biswas, Department of Electrical Engineering, National Institute of Technology, Silchar, India

ID 637 Using Computer Vision to Detect and Localize Fractures in Wrist X-Ray Images

John Paul Q. Tomas, Mapúa University, Philippines
Mark Wilson L. de los Reyes and Kirsten Joyce P. Vasquez, Mapúa University, Philippines

ID 594 Productivity Analysis of Containers' Truck in Container Terminal

MA, Nang Laik, Associate Professor, School of Business, Singapore University of Social Sciences, 461 Clementi Road, Singapore

ID 605 Exploring Photogrammetry/3D scanning technology for Quality Control Process in an Aerospace Manufacturing company

Aiman Ziout, Assistant Professor of Industrial Engineering, Hijawi Faculty for Engineering Technology, Yarmouk University, Irbid, Jordan
Jaber Abu Qudeiri, Associate Professor, Department of Mechanical and Aerospace Engineering, United Arab Emirates University, Al Ain, UAE
Murad M, Khader R, Alwahedi F and Khaleel M, Khaleel A, Department of Mechanical and Aerospace Engineering, United Arab Emirates University Al Ain, UAE

ID 657 The Role of Technological Innovations in Enabling Circular Supply Chains: A Review

Sayed Mehdi Zahraei, School of Business, Singapore University of Social Sciences, Singapore
Salman Shooshtarian, School of Property, Construction and Project Management, RMIT University, Australia

ID 687 Political imaging: popular appeals strategy of the new political parties in contemporary political landscape

Wawan Edi Kuswandoro, Faculty of Social and Political Sciences, Brawijaya University, Malang, Indonesia

ID 368 Risk Maturity Model: A Systematic Literature Review

Elisa Kusriani, Department of Industrial Engineering, Islamic University of Indonesia, Yogyakarta, Indonesia
Tifa Ayu Pradiya, Department of Industrial Engineering, Islamic University of Indonesia, Yogyakarta, Indonesia
Bayu Wahyudi, Department of Industrial Engineering Universitas Muhammadiyah Palembang Palembang, Indonesia

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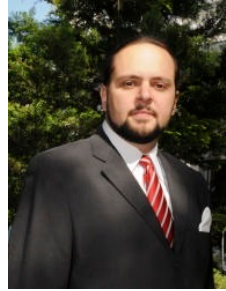
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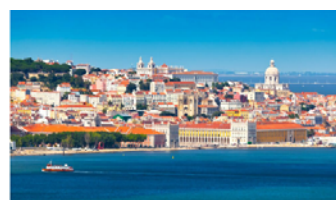
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