

# 8th European Conference on Industrial Engineering and Operations Management

*~Paris, France*

HOST & VENUE



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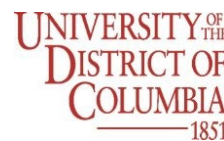


**July 2—4, 2025**



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**Industrial Engineering and Operations Management Society International**

IEOM Society International, 21411 Civic Center Drive, Suite 205, Southfield, Michigan 48076, USA  
Phone: 1-248-450-5660, Email: [info@ieomsociety.org](mailto:info@ieomsociety.org)

# Welcome to the 8<sup>th</sup> European Conference on Industrial Engineering and Operations Management, Paris, France, July 2-4, 2025

## To All-Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the 8<sup>th</sup> European **International Conference on Industrial Engineering and Operations Management**, in Paris, France, July 2-4, 2025. It is hosted by the IESEG, School of Management. 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. More than 400 papers/abstracts were submitted from 42 countries. After a thorough peer-review process, more than 270 have been accepted for presentation and publication. The program includes many cutting-edge topics in industrial engineering and operations management.

This conference will address many issues concerning issues of the continuous improvement of quality and service. The IEOM Society is delighted to have the following keynote speakers at the 9th North American Conference:

1. Dr. Robert Joliet, Academic Director of Programs, Associate Professor of Finance, IÉSEG School of Management, France
2. Dr. George Q. Huang, Chair Professor of Smart Manufacturing and Director of Research Institute for Advanced Manufacturing, Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hong Kong
3. Dr. Maged M. Dessouky, Dean's Professor of Industrial and Systems Engineering, and Department Chair, Daniel J. Epstein Department of Industrial and Systems Engineering, University of Southern California, Los Angeles, CA, USA
4. Dr. Pervaiz Akhtar, PhD, MSc, MBA, BSc, PCAP & HE UK Senior Fellow, Chair Professor in Business Analytics, Big Data & Supply Chains and Director of MBA Programmes, University of Aberdeen, Aberdeen, UK
5. Bouchra LE HIR, Vice President Digital Transformation & Artificial Intelligence, Forvia Interiors, Paris, Île-de-France
6. Dr. Farouk Yalaoui, Full Professor, Senior Director (VP) for Research, University of Technology of Troyes (UTT), France
7. Dr. Guoqing Zhang, Professor, Department of Mechanical, Automotive and Materials Engineering, Faculty of Engineering, University of Windsor, Windsor, Canada
8. Dr. Petri Helo, Professor of Industrial Management and Head of Networked Value Systems Research Group, School of Technology and Innovations, University of Vaasa, Finland
9. Dr. Min Xie, Chair Professor, Department of Systems Engineering and Chair Professor, Affiliate, Department of Data Science, City University of Hong Kong
10. Romain Bruniaux, Group Industrial VP & Power Division Industrial VP, Valeo, Paris, France
11. Dr. Jianxin (Roger) Jiao, Associate Professor of Enterprise Systems Engineering, G.W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA, USA
12. Dr. Alexandre Dolgui, Professor and Head, Automation, Production and Computer Sciences Dept., IMT Atlantique, LS2N-CNRS, NANTES Cedex 3, France and Editor-in-Chief, International Journal of Production Research (IJPR)
13. Dr. Bingwen Yan, Professor, Head of Department, Department of Industrial & Systems Engineering, Cape Peninsula University of Technology, Cape Town, South Africa

There is a possibility to publish quality papers in two prestigious journals, including the International Journal of Production Research (IJPR) and the Journal of Engineering Design (JED). Two meet the editors panels, SCM panel, AI in Manufacturing panel, Women in Industry and Academia Panels, six sigma workshop, and entrepreneurship and innovation workshops are arranged.

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

Our conference host, the IESEG, School of Management, would like to extend a warm welcome to all participants.

Our very best wishes to all of you for a successful and memorable event in Paris.



**Dr. Linda ZHANG**

Conference Chair  
IEOM Fellow and Global Council Member  
Professor of Operations Management  
IESEG School of Management  
Paris La Defense, France



**Dr. Ahad Ali**

Conference Co-Chair  
Associate Professor and  
Director of Industrial Engineering  
Lawrence Technological University  
Southfield, Michigan, USA  
CEO, IEOM Society International



**Prof. Don Reimer**

Program Chair  
IEOM Fellow  
Chief Operating Officer  
IEOM Society International  
Southfield, Michigan, USA

# Keynote Speakers

## Wednesday, July 2, 2025

**Welcome Address from the Host University:** Wednesday, July 2, 2025, 10:00 – 10:20 am



**Dr. Robert Joliet**  
Academic Director of Programs  
Associate Professor of Finance  
IÉSEG School of Management, France

Robert Joliet is an Associate Professor of Finance and currently the Academic Director of Programs at IÉSEG School of Management and a member of the Management Board of the School. He holds a Ph.D. in Economics and Management from HEC Liège in Belgium. His research focuses on asset allocation, sustainable finance, and decision-making under uncertainty, with publications in leading journals such as Economics Letters, the Journal of Banking and Finance, the Journal of International Money and Finance and the Journal of International Financial Markets, Institutions and Money. Prof. Joliet has held various leadership roles at IÉSEG School of Management, including Head of the Finance, Audit-Control Department and Director of Academic Development. He is a member of the Lille Économie Management (LEM) CNRS research lab.

**Opening Keynote I:** Wednesday, July 2, 2025, 10:20 – 11:00 am



**Prof. George Q. Huang**  
Chair Professor of Smart Manufacturing & Director of Research Institute for Advanced Manufacturing  
Department of Industrial and Systems Engineering  
The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong

George joined Department of Industrial and Systems Engineering at The Hong Kong Polytechnic University in December 2022 as Chair Professor of Smart Manufacturing. Prior to this appointment, he was Chair Professor of Industrial and Systems Engineering and Head of Department in Department of Industrial and Manufacturing Systems Engineering at The University of Hong Kong. He gained BEng and PhD in Mechanical Engineering from Southeast University (China) and Cardiff University (UK) respectively. He has conducted research projects in areas of Smart Manufacturing, Logistics, and Construction through IoT-enabled Cyber-Physical Internet and Systems Analytics. His research has been supported with substantial government and industrial grants. He has directed a strong research team and collaborated closely with leading academic and industrial organizations through joint projects and start-up companies. He has published extensively and his works have been highly cited by research communities. He serves as associate editors and editorial members for several international journals. He is Chartered Engineer (CEng), Fellow of IEEE, IISE, ASME, HKIE, IET and CILT.

**Keynote II:** Wednesday, July 2, 2025, 11:00 – 11:40 am



**Dr. Maged M. Dessouky**  
Dean's Professor of Industrial and Systems Engineering  
Professor of Industrial and Systems Engineering and Spatial Sciences Institute  
Department Chair, Daniel J. Epstein Department of Industrial and Systems Engineering  
USC Viterbi School of Engineering  
University of Southern California, Los Angeles, California, USA

Dr. Dessouky received his B.S. and M.S. degrees in Industrial Engineering from Purdue University in 1984 and 1987, respectively. He obtained his Ph.D. degree in Industrial Engineering and Operations Research from the University of California at Berkeley in 1992. His research has been funded by the National Science Foundation, Society of Manufacturing Engineers, PATH, Caltrans, FTA, and Department of Defense. He was recipient of the 2007 Transportation Science & Logistics Best Paper Prize ("Optimal Slack Time for Schedule-Based Transit Operations"). He is a Fellow of the Institute of Industrial Engineers. Dr. Dessouky was a recipient of IIE Operations Research Division Excellence in Teaching Award, the USC Associates Award in Teaching (Top University Award for Teaching), Alpha Pi Mu/Omega Rho Outstanding Teacher of the Year in Industrial Systems Engineering, the USC Award for Excellence in Teaching, and the TRW School of Engineering Teacher Award. He is area/associate editor of Computers & Industrial Engineering, IIE Transactions, and Transportation Research Part B: Methodological, on the editorial board of Transportation Research Part E: Logistics and Transportation Review, and previously served as Area Editor of ACM Transactions of Modelling and Computer Simulation and IEEE Transactions on Intelligent Transportation Systems.

**Keynote III:** Wednesday, July 2, 2025, 11:40 am – 12:20 pm



**Pervaiz Akhtar, PhD, MSc, MBA, BSc, PCAP & HE UK Senior Fellow**  
Chair (Full Professor) in Business Analytics, Big Data & Supply Chains  
Director of MBA Programmes  
University of Aberdeen, Aberdeen, UK

Pervaiz Akhtar is Director of the MBA suite of programmes and Chair (Full Professor) in Business Analytics, Big Data and Supply Chains. Professor Akhtar utilises mixed methods and modelling to optimize and de-risk operational performance, supply chains and business value. He was Associate Dean of Graduate Studies before joining the University of Aberdeen. He has been a Visiting Professor of Big Data and Business Analytics/Management Science (e.g., IESSEG, France) and a member of Executive Groups. He is also associated with Imperial College London, as his philosophy of continuous learning.



Due to his all-round excellence in leadership, research and teaching, he is one of only 155 academics across all disciplines in the UK who earned their Professorship under the age of 35 as per HE records and became the youngest professor from his country of origin (out of over 212 million population). He has also set consecutive promotion records.

Professor Akhtar has capitalised on over 20 years of academic, consulting and industrial experiences from the UK, France, New Zealand and other countries – played leading roles in teaching and research. By integrating informatics, analytics and big data applications in undergraduate and postgraduate programmes, Professor Akhtar serves to bridge the gap between academic practices and industrial requirements. He has played multiple senior management roles in industry and worked with private and non-profit-making organizations such as UNICEF, JCCP, Oxfam, MSF, Islamic Relief, Red Cross, Unilever and Reckitt Benckiser.

Along with his intriguing interdisciplinary education (BSc in Double Major Mathematics and Statistics, MBA, MSc in Logistics and Supply Chains, PCAP, Senior UKHE Fellowship, PhD in Supply Chain and Operations Management with extensive Data Science Applications), his research has appeared in top-ranked journals (i.e., A\*/FT50/CABS4/Q1) spanning a range of domains and industries including food, healthcare, FMCG, manufacturing, humanitarian operations, performance measurement, business value creation, logistics, supply chains, technology, big data analytics and data science skills.

He has extensive experience of supervising UG, PG and PhD students and warmly welcomes all students. PhD students are particularly encouraged to apply in his area of interest such as big data, blockchain technology, analytics, humanitarian logistics and business operations. Professor Akhtar has worked on multiple projects with more than 20 companies and organizations worldwide (e.g., United Kingdom, United States, Canada, Australia, New Zealand, India, Malaysia, Pakistan and Europe). He has completed more than 10 funded projects and received awards – the value more than £5 million.

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**Keynote IV: Wednesday, July 2, 2025, 12:20 – 1:00 pm**



**Bouchra LE HIR**  
**Vice President Digital Transformation & Artificial Intelligence**  
**Forvia Interiors**  
**Paris, Île-de-France, France**

Bouchra Le Hir is Vice President of Digital Transformation and Artificial Intelligence and a Board Member of FORVIA Interiors. With over a decade of international leadership experience, she plays a key role in accelerating FORVIA Interiors' digital strategy and deploying AI-powered solutions across the organization.

Before joining FORVIA, Bouchra held several strategic positions at SKF, contributing to global operations across France, India, China, the United States, and Germany. Her global perspective and proven ability to lead cross-functional initiatives make her a recognized expert in digital innovation and organizational transformation.

Bouchra holds a dual Master's degree in Chemistry of Transformation and in Materials Engineering.

She is passionate about harnessing technology to drive sustainable growth and improve industrial performance, making her a compelling voice on digital transformation, AI, and the future of mobility".

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**Thursday, July 3, 2025**

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**Keynote V: Thursday, July 3, 2025, 9:40 – 11:20 am**



**Dr. Farouk Yalaoui**  
**Senior Director (Vice President) for Research and Full Professor**  
**University of Technology of Troyes (UTT), Troyes, France**

**Professor Farouk YALAOUI** is currently a full Professor at Troyes University of Technology (UTT), France, where he is the Senior Director for Research of UTT. He is also scientific director of Industrial Chair "Connected Innovation" of UTT since 2016. He is the former director of LOSI Lab. (Logistique et Optimisation des systèmes Industriels) of UTT and former director of Services and Industries of The future of Troyes Institute (ISIFT). He obtained his Engineering degree in Industrial Engineering from the Polytechnics School of Algiers (Algeria) in 1995, his master's degree in Industrial System Engineering from Polytechnics Institute of Lorraine (Nancy, France) in 1997, his Ph.D. degree in Production Management from the Troyes University of Technology (UTT) in 2000 and followed by a Habilitation à diriger les recherches (Dr. Hab) from Compiègne University of Technology (UTC) in 2006. His research topic focuses on the scheduling problems, system design, operations research, modeling, analysis and optimization of logistic and production systems, reliability and maintenance optimization and on optimization problems in general. He supervised or co-supervised 29

Ph.D thesis and more than 82 projects since 2001. He is founder and partner of OPTA LP SAS company since 2013.

He is author or co-author of a pattern and more than 520 contributions, publications or communications with 1 patent; 3 books (Ellipses, Hermes-Lavoisier, Wiley and Sons), 6 edited books (Springer), 16 book chapters and 102 papers in journals such as IIE Transactions, European Journal of Operational research, International Journal of Production Economics, IEEE Transactions on Reliability, Reliability Engineering and System Safety, Computer & Operations research, Journal of Intelligent Manufacturing. He also published more than 320 papers in conference proceedings. He had presented 60 invited speeches (seminaries or conferences plenary sessions). He was invited by different universities (11) more than 20 times.

He is member of editor board of the book series "Automation and Control – Industrial Engineering", ISTE Wiley, London, since 2014. He served or serves as editor to 20 International journal Boards: Engineering Applications of Artificial Intelligence (EAAI, Elsevier, IF. 6,212, 2022), The Scientific World Journal as part of the journal's Operations Research subject area (TSWJ), International journal of Supply and Operations Management (IJSOM), British Journal of Mathematics & computer Science (BJMCS), Journal of Risk Analysis and Crises Response (JRACR), Journal., American Journal of Operations Research (AJOR), Industrial Engineering and Management (IEM), Advances in Computer Science and Engineering (ACSE), Modeling and Simulation in Engineering (MSE), Advances in Artificial Intelligence (AAI), International Journal of Applied Logistics (IJAL). He served as guest editor for Journal special issue (Journal of Multiple Valued Logic and Soft Computing, Journal of Intelligent Manufacturing). He is reviewer for more than 36 international journals.

He is founder and member of steering committee of IWOLIA (since 2010) SHEIC (since 2019) and member IESM-MOSIM Steering Committee, since 2019, Membre IFAC/MIM Steering Committee, since 2021. He is advisory Committees/Organizing Committees members of 36 conferences. He is also member of several international conference committees (about 154 conferences) as (INCOM2021, IFAC WC 2020, IEEE ICALT'2019, INCOM 2018, ICINCO 2017, ACIIDS 2017, IEEE SSCI 2016, MIM 2016, INCOM2015, IESM 2015, MIC'2015, SSEMO-WCCI 2014, IEEE-CIPLS 2014, FLINS'14, IEEE-CIPLS 2013, CIIA'2013, EMO13, MIM 2013, CoDIT 2013, ICSENT'2012, IEEM 2012,), member more than 25 organization committees of conferences and general Chair of IFAC MIM 2016. He organized and or Chair more than 115 tracks or sessions in conference.

He is Vice Chair of IFAC (International federation of Automation and Control) TC group 5.2. He is Chair of a Working Group on multiobjective optimization. He is member of IFAC TC group 5.1. He is member of French Universities National Council (CNU) field Automation, Control, Industrial Engineering (section 61). He is member and expert for French ANR agency, and for different agency such French AERES Agency, Natural Sciences and Engineering Research Council of Canada (NSERC), Algerian PNR program. He is member of Algerian Academy of Science and Technology (AAS) since 2015. He obtained of Annual Award 20117 of the IFAC French National Member Organization (NMO).

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**Keynote VI:** Thursday, July 3, 2025, 10:20 – 11:00 am



**Dr. Guoqing Zhang**  
**Professor, Department of Mechanical, Automotive and Materials Engineering**  
**Faculty of Engineering**  
**University of Windsor**  
**Windsor, Canada**

Guoqing Zhang, is a Professor in the Faculty of Engineering, University of Windsor, and also the director of Supply Chain and Logistics Optimization Research Centre. He received his Ph.D. degree in Management Sciences from City University of Hong Kong in 2000. His recent research interests include optimization in supply chain management, logistics, algorithms design and development, RFID, and facility/warehouse layout. He has published articles on those areas in journals such as Computational Optimization and Applications, IIE Transactions, European Journal of Operational Research, Computers and Operations Research, and Operations Research. He has served as a consultant to Auto, Energy, and Foods industries.

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**Keynote VII:** Thursday, July 3, 2025, 11:00 – 11:40 am



**Dr. Petri Helo**  
**Professor of Industrial Management, Logistics Systems**  
**Head of Networked Value Systems Research Group**  
**School of Technology and Innovations**  
**University of Vaasa**  
**Finland**

Petri Helo is Professor of Industrial Management, Logistics Systems and the head of Networked Value Systems research group, at School of Technology and Innovations, University of Vaasa, Finland. His research addresses the management of supply demand networks and use of information technology in operations. Prof. Helo is also partner and board member at Wapice Ltd, a software solution provider of CPQ and IoT solutions.

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**Keynote VII:** Thursday, July 3, 2025, 11:40 am – 12:20 pm



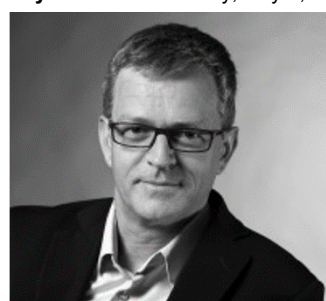
**Dr. Min Xie**  
**Chair Professor, Department of Systems Engineering, Chair Professor, Affiliate, Department of Data Science, City University of Hong Kong, Kowloon, Hong Kong, PRC**

M. Xie completed his undergraduate studies in Sweden, earning a direct MSc from the Royal Institute of Technology in 1984, followed by a PhD from Linköping University in 1987. In 1991, he joined the National University of Singapore (NUS) as one of the first recipients of the prestigious Lee Kuan Yew Research Fellowship, later becoming a full professor in 2005. In May 2011, Professor Xie moved to the City University of Hong Kong (CityU), as Chair Professor of Industrial Engineering. He has conducted extensive research in industrial engineering, focusing on reliability engineering and quality management, and has published over 300 journal articles and authored 10 books. At NUS and CityU, Prof Xie supervised more than 70 PhD students, now holding positions in industry and academia across various continents. Prof Xie has also served as editor, associate editor, or on editorial board member for over 10 leading international journals. Prof Xie was elected a Fellow of the IEEE in 2005 and elected to the European Academy of Sciences and Arts. He currently serves

as Chairman of Fellow Evaluation Committee for IEEE TEMS society and VP for Asian Region of IISE.

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**Keynote VIII:** Thursday, July 3, 2025, 12:20 – 1:00 pm



**Romain BRUNIAUX, Ph.D.**  
**Valeo Group Industrial Vice-President**  
**Power Division Industrial Vice-President**  
**Paris, France**

**Presentation Title: Data Science and Artificial Intelligence in Valeo's Factories**

Dr. Romain Bruniaux studied in the USA and France. He spent 6 months in 1995 at University of Iowa (Iowa City) working with Professor Andrew Kusiak about production cell optimization. In France, he studied in the French Institute for Advanced Mechanical Engineering (Clermont Ferrand) from 1992 to 1996, specializing in Production Systems. He is an IFMA engineer. He completed his Ph.D. with Doctor Christophe Caux and Professor Henri Pierrel in Clermont Ferrand University. His Ph.D. is dedicated to continuous simulation of industrial site networks, applied to supply chains in the automotive industry. After a first research period,

Romain decided in 2000 to join the Automotive Industry : he took various management positions in the Stellantis factory (Poissy). Then, he joined

Alstom Transport (Railway Industry) in 2006 to take the position of Lean Manufacturing Director, deploying the Alstom Production System in 28 production sites in the world. Romain became in 2010 Site Managing Director of a 700 people factory in Le Creusot. In 2013, he was promoted to become successively quality director and industrial director for a scope of 25 sites at Alstom Transport Headquarter in Saint-Ouen. Romain joined Valeo in 2018, back in the Automotive industry. He started at Valeo as Industrial Director for a Product Group (15 factories worldwide). After successive promotions, Romain is today Valeo Group Industrial Vice-President and Power Division Industrial Vice-President, covering more than 150 factories in the world. His current responsibilities include the definition of the industry 4.0 roadmap for the entire Valeo group, with a specific focus on Data Science and Artificial Intelligence.

## Friday, July 4, 2025

**Remarks from Conference Chairs:** Friday, July 4, 2025, 10:00 – 10:00 am

**Keynote IX:** Friday, July 4, 2025, 10:20 – 11:00 am



**Dr. Jianxin (Roger) Jiao**  
Associate Professor of Enterprise Systems Engineering  
G.W. Woodruff School of Mechanical Engineering  
Georgia Institute of Technology, Atlanta, GA, USA

Dr. Jiao joined the Woodruff School in December 2008. Prior, he was an Assistant Professor and then Associate Professor in the School of Mechanical & Aerospace Engineering at Nanyang Technological University, Singapore. Before his career in Singapore, he was a Visiting Scholar in the Department of Industrial Engineering and Engineering Management at Hong Kong University of Science and Technology from 1998 to 1999. From 1993 to 1994, he was a Lecturer of Industrial Engineering in the School of Management at Tianjin University, China, and from 1988 to 1990, he worked as an Associate Lecturer in the Department of Industrial Design at Tianjin University of Science and Technology, China.

Dr. Jiao's research activities are geared toward a good leverage of practical relevance and academic rigor. He is interested in a number of investigations related to an extended enterprise, involving engineering design and product development (design theory and methodology, product family and product platform, customer requirement management, affective design and Kansei engineering, design project management, service modeling and service delivery system design), enterprise engineering and industrial systems (reconfigurable manufacturing systems, production planning and control, supply chain management and engineering logistics, system modeling and simulation, sales/marketing manufacturing interface, global manufacturing and operations, mass customization), as well as manufacturing and management information systems (artificial intelligence in design and manufacturing, industrial applications of e-commerce, virtual enterprise).

His research is motivated by the current trend of manufacturing companies to move toward global manufacturing in order to better leverage capabilities and resources worldwide. Product realization then becomes globally distributed and necessitates collaboration that transcends geographic boundaries. Strategic engineering with a focus on product creation suggests itself to be of primary importance for companies to gain competitive edges. Product design has to address individual customer needs along with diverse market niches, while maintaining low costs and near mass production efficiency. Build-to-order and reconfiguration have become common norms. The traditional spectrum of product fulfillment therefore must be expended to encompass marketing, design, production, as well as supply and value chains; and must be aligned with the self-adaptability of a learning organization. Dr. Jiao's vision is that the product creation horizon will be shifted from a physical product perspective to a total life cycle experience. Product creation should be more than just dealing with pieces of hardware, but rather should be enacted as the co-design of an entire ecosystem, including fulfillment, services, experiences and human satisfaction at the individual and the community levels. Education: Ph.D. (Industrial Engineering), Hong Kong University of Science and Technology, Hong Kong, 1998, M.E. (Intelligent Manufacturing), Tianjin University, China, 1993 and B.E. (Mechanical Design), Tianjin University of Science and Technology, China, 1988.

**Keynote X:** Friday, July 4, 2025, 11:00 – 11:40 am



**Alexandre Dolgui, Dr.habil., Ph.D., IISE Fellow**  
Professor and Head, Automation, Production and Computer Sciences Dept.  
IMT Atlantique, LS2N-CNRS, La Chantrerie, 4, rue Alfred Kastler, NANTES Cedex 3, France  
Editor-in-Chief, International Journal of Production Research (IJPR)

Dr. Alexandre Dolgui is an IISE Fellow, Distinguished Professor and the Head of Automation, Production and Computer Sciences Department at the IMT Atlantique, France. His research focuses on manufacturing line design, production planning and supply chain optimization. His main results are based on the exact mathematical programming methods and their intelligent coupling with heuristics and metaheuristics algorithms. He is the co-author of 5 books, the co-editor of 25 books or conference proceedings, the author of 270 refereed journal papers, 4 prefaces of books, 31 editorials and 37 book chapters as well as over 400 papers in conference proceedings. He is the Editor-in-Chief of the International Journal of Production Research, an Area Editor of Computers & Industrial Engineering, past Associate Editor of International Journal of Systems Science (2005-2008), IEEE Transactions on Industrial Informatics (2006-2009) and Omega-the International

Journal of Management Science (2009-2012), consulting Editor of the International Journal of Systems Science (2009- ). He is Member of the Editorial Boards for 27 other journals, including the International Journal of Production Economics. He is an Active Fellow of the European Academy for Industrial Management, Member of the Board of the International Foundation for Production Research, former Chair of IFAC TC 5.2 Manufacturing Modelling for Management and Control (2011-2017, currently a vice chair), Member of IFIP WG 5.7 Advances in Production Management Systems, IEEE System Council Analytics and Risk Technical Committee, Guest editor of special issues of European Journal of Operational Research, International Journal of Production Research, International Journal of Production Economics, Omega – The International Journal of Management Science, Journal of Intelligent Manufacturing, Journal of Mathematical Modeling and Algorithms, and Annual Reviews in Control; he was General Scientific Chair of the 12th IFAC symposium INCOM'06, and IFIP APMS'2021, Chairman of International Program Committee of SCM'02, MOSIM'04, INCOM'09, INCOM'12, IESM'13, MIM'13, INCOM'15, IESM'17, GSC'18, MIM'19 and Chairman of Steering committee of MIM'16. Chairman of Organizing Committee of the International Conference MOSIM'01 and ROADEF'2011; last ten years, he was Member of Program Committees of over 200 International Conferences.



**Keynote XI:** Friday, July 4, 2025, 11:40 am – 12:20 pm



**Prof Bingwen Yan**  
**Head, Department of Industrial & Systems Engineering**  
**Cape Peninsula University of Technology**  
**Cape Town, South Africa**

Bingwen Yan is based at Faculty of Engineering and The Built Environment, Cape Peninsula University of Technology, Cape Town, South Africa. Bingwen Yan is a professor and the Head of the Department of Industrial and Systems Engineering at the Faculty of Engineering and Built Environment, Cape Peninsula University of Technology, South Africa. His research spans a wide range of fields, including industrial engineering, engineering management, public administration and business management.

**Keynote XIII:** Friday, July 4, 2025, 12:20 – 12:40 pm



**Dr. Thierry Benoist**  
**Founder and CEO of Hexaly**  
**Paris, France**

Thierry Benoist is an Operations Research expert with 25 years of experience bridging research and industry applications. He founded Hexaly in 2012 to provide the market with a new kind of mathematical optimization solver. Before that, he worked for 10 years delivering OR solutions in various industries like manufacturing, transportation, construction, telecom, advertising, banking, and energy. He holds a Ph.D. in Computer Science and has won several awards in Operations Research.

### Participants from the following countries and territories

- |                    |               |                  |                    |
|--------------------|---------------|------------------|--------------------|
| 1. Algeria         | 13. Finland   | 25. Latvia       | 37. Spain          |
| 2. Australia       | 14. France    | 26. Malaysia     | 38. Taiwan         |
| 3. Bangladesh      | 15. Germany   | 27. Mexico       | 39. Tunisia        |
| 4. Belgium         | 16. Greece    | 28. Morocco      | 40. Turkey         |
| 5. Botswana        | 17. Hungary   | 29. Oman         | 41. UAE            |
| 6. Brazil          | 18. India     | 30. Peru         | 42. United Kingdom |
| 7. Canada          | 19. Indonesia | 31. Philippines  | 43. United States  |
| 8. China           | 20. Iran      | 32. Portugal     | 44. Zambia         |
| 9. Colombia        | 21. Ireland   | 33. Qatar        | 45. Zimbabwe       |
| 10. Cyprus         | 22. Italy     | 34. Romania      |                    |
| 11. Czech Republic | 23. Jordan    | 35. South Africa |                    |
| 12. Denmark        | 24. Kuwait    | 36. South Korea  |                    |

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 Eastern Michigan University, USA  
 Universidad de Monterrey (UEM), Mexico  
 Universitas Sebelas Maret, Surakarta, Indonesia  
 University of New Brunswick at Fredericton, Canada  
 University of the District of Columbia (UDC), Washington, DC, USA  
 Wayne State University, Detroit, USA



# Panels

## Women in Industry and Academia (WIIA) Panel sponsored by Ford Motor Company

2:00 – 3:30 pm, July 2, 2025

### Panel Co-Chairs



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



**Dr. Anjali Awasthi**  
Professor, CIISE, Concordia  
University, Montreal, Canada  
Past President, Canadian  
Operations Research Society

### Panelists



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



**Dr. Xuan (Jen) Zhao**  
Professor in Operations and  
Decision Sciences  
Lazaridis School of Business and  
Economics  
Wilfrid Laurier University,  
Waterloo, Ontario, Canada



**Zhe Yuan**  
Associate Professor  
EMLV Business School, Paris,  
France



**Dr. Carman Ka Man**  
Associate professor  
Department of Industrial and  
Systems Engineering  
The Hong Kong Polytechnic  
University, Hong Kong, PRC

4:00 – 5:30 pm, July 2, 2025

## Meet the Editors Panel I

### Co-Chairs



**Dr Carman Ka Man**  
Associate professor  
Department of Industrial and  
Systems Engineering  
The Hong Kong Polytechnic  
University, Hong Kong, PRC



**Dr. Laoucine Kerbache**  
Professor and Head of  
Engineering Management  
& Decision Sciences Division  
Hamad Bin Khalifa University,  
Doha, Qatar

**Panelists**

**Dr. Jianxin (Roger) Jiao**  
Associate Professor of Enterprise  
Systems Engineering  
G.W. Woodruff School of  
Mechanical Engineering  
Georgia Institute of Technology,  
Atlanta, USA



**Prof. George Q. Huang**  
Chair Professor of Smart  
Manufacturing  
Department of Industrial and  
Systems Engineering  
The Hong Kong Polytechnic  
University, Kowloon, Hong Kong



**Dr. Maged M. Dessouky**  
Dean's Professor of Industrial  
and Systems Engineering  
University of Southern California  
Los Angeles, California, USA



**Dr. Min Xie**  
Chair Professor, Department of  
Systems Engineering  
City University of Hong Kong  
Tat Chee Avenue, Kowloon,  
Hong Kong, PRC

## Panel on Global Supply Chain and Logistics

2:00 – 3:30 pm, July 3, 2025

**Panel Chair**

**Pervaiz Akhtar, Ph.D., MSc, MBA, BSc, PCAP & HE UK Senior Fellow,**  
Chair (Full Professor) in Business Analytics, Big Data & Supply Chains  
Director of MBA Programmes  
University of Aberdeen, UK

**Panelists**

**Dr. Mira Chitt**  
Head of Mechanical Engineering  
Department and Engineering  
Management  
Global College of Engineering  
and Technology, Muscat, Oman



**Dr. Guoqing Zhang**  
Professor, Department of  
Mechanical, Automotive and  
Materials Engineering  
Faculty of Engineering  
University of Windsor, Canada



**Dr. Petri Helo**  
Professor of Industrial  
Management, Logistics Systems  
Head of Networked Value  
Systems Research Group  
University of Vaasa, Finland



**Surajit Bag, PhD**  
Full Professor, Department of  
Supply Chain, Purchasing and  
Project Management  
CERIIM – Centre de Recherche  
en Intelligence et Innovation  
Managériales, Rochelle, France



## Ph.D. Workshop

4:00 – 5:30 pm, July 3, 2025

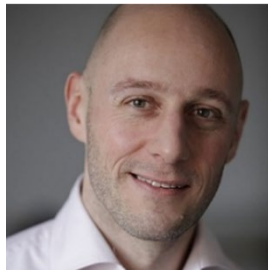
### Chair



**Professor Linda Zhang**

Full Professor of Operations Management, Department of Management  
IESEG School of Management, Paris, France

### Speakers



**Dr. Roel Leus**

Professor of Operations Research  
KU Leuven  
Leuven, Belgium



**Dr. Jianxin (Roger) Jiao**

Associate Professor of Enterprise  
Systems Engineering  
G.W. Woodruff School of  
Mechanical Engineering  
Georgia Institute of Technology,  
Atlanta, GA, USA



**Dr. Petri Helo**

Professor of Industrial  
Management, Logistics Systems  
Head of Networked Value Systems  
Research Group, School of  
Technology and Innovations  
University of Vaasa, Finland



**Prof. George Q. Huang**

Chair Professor of Smart  
Manufacturing  
Department of Industrial and  
Systems Engineering  
The Hong Kong Polytechnic  
University, Hong Kong

## AI in Manufacturing Panel

2:00 – 3:30 pm, July 4, 2025

### Panel Chair



**Dr. Mira Chitt**

Head of Mechanical Engineering Department and Engineering Management  
Associate Professor of Mechanical Engineering  
Global College of Engineering and Technology (GCET)  
Muscat, Oman

**Panelists**

**Prof. George Q. Huang**  
Chair Professor of Smart  
Manufacturing  
Department of Industrial and  
Systems Engineering  
The Hong Kong Polytechnic  
University, Hung Hom,  
Kowloon, Hong Kong



**Dr. Jianxin (Roger) Jiao**  
Associate Professor of Enterprise  
Systems Engineering  
G.W. Woodruff School of  
Mechanical Engineering  
Georgia Institute of Technology,  
Atlanta, USA



**Dr. Alexandre Dolgui**  
Professor and Head  
Automation, Production and  
Computer Sciences Dept.  
IMT Atlantique  
NANTES Cedex 3, France  
Editor-in-Chief, IJPR



**Dr. Ali Siadat**  
Full Professor  
Laboratoire de Conception,  
Fabrication Commande  
Arts et Métier Paris Tech  
Centred Metz  
Metz, France

## Meet the Editors Panel II

4:00 – 5:30 pm, July 4, 2025

**Panel Chair**

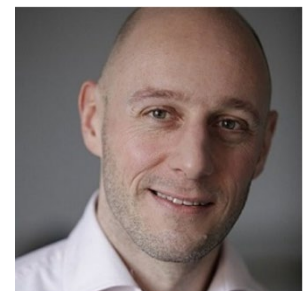
**Dr. Laoucine Kerbache**  
Professor and Head of Engineering Management & Decision Sciences Division  
College of Science and Engineering  
Hamad Bin Khalifa University, Doha, Qatar

**Panelists**

**Alexandre Dolgui, Dr.habil., Ph.D.**  
Professor and Head  
Automation, Production and Computer  
Sciences Dept.  
IMT Atlantique, LS2N-CNRS, NANTES  
Cedex 3, France  
Editor-in-Chief, IJPR



**Dr. Ali Siadat**  
Full Professor  
Laboratoire de Conception, Fabrication  
Commande  
Arts et Métier Paris Tech  
Centred Metz, France



**Dr. Roel Leus**  
Professor of Operations Research  
KU Leuven  
Leuven, Belgium



## Workshops

### Six Sigma Workshop

Thursday, July 3, 2025, 2:00 – 6:00 pm (Onsite Room 5)



**Ahad Ali, Ph.D.**

Associate Professor

Director, Bachelor of Science in Industrial Engineering

Director, Master of Science in Industrial Engineering

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

Chief Executive Officer of IEOM Society International

**Dr. Ahad Ali** is an associate professor and director of industrial engineering programs (BSIE & MSIE) and director of a graduate certificate in Lean Six Sigma at A. Leon Linton Department of Mechanical, Robotics, and Industrial Engineering of the Lawrence Technological University (LTU), Southfield, Michigan, USA. He established the Siemens Electro-Matic Industrial Engineering Lab at LTU. Dr. Ali was the primary author of the ABET self-study report of the BSIE Program at LTU in 2022. He earned a BS in Mechanical Engineering from Khulna University of Engineering and Technology (KUET), Bangladesh, a Master's in Systems and Engineering Management from Nanyang Technological University, Singapore, and a Ph.D. in Industrial Engineering from the University of Wisconsin-Milwaukee, USA. Dr. Ali was an Assistant Professor in Industrial Engineering at the University of Puerto Rico - Mayaguez, a Visiting Assistant Professor in Mechanical, Industrial, and Manufacturing Engineering at the University of Toledo, and a Lecturer in Mechanical Engineering at the Bangladesh Institute of Technology, Khulna. He received an Outstanding Professor Award from the Industrial Engineering Department, University of Puerto Rico -Mayaguez. Dr. Ali has been recognized with a Fulbright Award. He has published 75 journal papers and 150 conference papers. Dr Ali conducted research projects with Chrysler, Ford, DTE Energy, New Center Stamping, Whelan Co., Delphi Automotive System, GE Medical Systems, International Truck and Engine Corporation (ITEC), and Rockwell Automation. His research interests include manufacturing systems, quality, lean, six-sigma, simulation, artificial intelligence, supply chain, and optimization. He supervised 11 doctoral students in Doctor of Engineering in Manufacturing Systems (DEMS). He is a Founder and Chief Executive Officer (CEO) of IEOM Society International. Dr. Ali is a Co-Chair of the International Conference on Industrial Engineering and Operations Management. Dr. Ali organized IEOM conferences around the globe on six continents including Dhaka, Kuala Lumpur, Istanbul, Bali, Dubai, Orlando, Detroit, Rabat, Bristol, Bogota, Paris, Washington, DC, Lima, Johannesburg, Bangkok, Pilsen, Toronto, Costa Rica, Monterrey, Sao Paulo, Riyadh, Manila, Melbourne, New Delhi, Sydney, Augsburg, Tokyo, and Muscat. He is an associate editor of the IJIEOM. Dr. Ali is a member of IEOM, INFORMS, SME, and IEEE.

### Innovation and Entrepreneurship Workshop

Friday, July 4, 2024, 2:00 – 6:00 pm (Onsite Room 5)



**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

Chief Operating Officer, IEOM Society

**Professor Don Reimer** is the Chief Operating Officer of the IEOM Society International, Southfield, Michigan, USA. He is a managing member of The Small Business Strategy Group, LLC, and works as an adjunct professor at Lawrence Technological University. Professor Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from the University of Detroit/Mercy. He has been recognized as a professional management consultant with over 45 years of experience working with closely held businesses. He has taught courses in entrepreneurship, management, corporate entrepreneurship, and innovation for engineers. Professor Reimer served as a member of the Minority Economic Development Committee of New Detroit. He has served as a

KEEN Fellow for The Kern Family Foundation. He is a member of the Lawrence Tech Alumni Board of Directors and has been elected a Fellow of the IEOM Society International. Professor Reimer is a faculty advisor of the Student Chapter of the IEOM Society at Lawrence Tech. He visited 17 countries to organize IEOM conferences. Professor Reimer is coordinating IEOM student chapters around the world.

# Conference Committee

## Conference Chairs

Dr. Linda Zhang, Professor of Operations Management, IESEG School of Management, Paris la Defense  
 Dr. Ahad Ali, Associate Professor and Director of Industrial Engineering Program, Lawrence Technological University, Southfield, Michigan, USA

## Program Chair

Professor Don Reimer, Chief Operating Officer, IEOM Society

## Organizing Committee

Prof. Linda ZHANG, IESEG School of Management, Lille-Paris, France  
 Prof. Farouk YALAOUI, University of Technology of Troyes, Troyes, France  
 Prof. Surajit BAG, Excelsia Business School, La Rochelle, France

## Competition Committee

### Undergraduate Research Competition Chair

Dr. Adel Elomri, Associate Professor, College of Science and Engineering, Hamad Bin Khalifa University, Qatar

### Global Design Competition Chair

Dr. Adel Elomri, Associate Professor, College of Science and Engineering, Hamad Bin Khalifa University, Qatar

### Simulation Competition Chair

Dr. Petri Helo, University Vaasa, Vaasa, Finland

### Poster Competition Chair

Dr. Petri Helo, University Vaasa, Vaasa, Finland

### Graduate Student Paper Competition Chair

Dr. Pervaiz Akhtar, Chair Professor in Business Analytics, Big Data & Supply Chains and Director of MBA Programmes, University of Aberdeen, UK

### Lean Six Sigma Competition Chair

Dr. Mohammad Shamsuzzaman, Professor of Industrial Engineering and Engineering Management, University of Sharjah, UAE

### Senior Design Project Competition Chair

Dr. Pervaiz Akhtar, Chair Professor in Business Analytics, Big Data & Supply Chains and Director of MBA Programmes, University of Aberdeen, UK

### Undergraduate Student Paper Competition Chair

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

### Doctoral Dissertation Competition Chair

Dr. Surajit Bag, Full Professor at Excelsia Business School, France

### Master's Thesis Competition Chair

Dr. Surajit Bag, Full Professor at Excelsia Business School, France

### AI-ML Competition Chair

Dr. Hajej Zied, Associate Professor, University of Lorraine, Metz, France

### Human Factors and Ergonomics Competition Chair

Dr. Hajej Zied, Associate Professor, University of Lorraine, Metz, France

### High School STEM Competition Chair

Prof. Don Reimer, IEOM Society

### Supply Chain and Logistics Competition Chair

Sri Thirumalai, Director, Last Mile Delivery, Walmart, USA (Online)  
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 France

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 YAHIA Esma, Arts et Métiers ParisTech, France  
 YAN Bingwen, Cape Peninsula University of Technology, Cape Town, South  
 Africa  
 YUAN Yuan, Northwestern Polytechnical University, USA  
 ZEMZAMI Maria, Mohammed V University, Morocco  
 ZHANG Guoqing, University of Windsor, Windsor, Canada  
 ZHU Jiaxi, Google, USA  
 ZIED Hajej, University of Lorraine, Metz, France  
 ZOLGHADRI Marc, Ecole des Ingénieurs en Mécanique de Paris, France

# Parallel Sessions

## Wednesday, July 2, 2025

	Room A (Onsite)	Room 2 (Onsite)	Room 3 (Onsite)	Room 4 (Onsite)	Room 5 (Onsite)	Room 6 (Onsite)	Room 7 – Virtual
08:00 – 18:00	Registration						Supply Chain and Logistics Competition Simulation Competition
08:30 – 09:30		Artificial Intelligence and Data Science	Simulation, Optimization and Productivity Improvement	Supply Chain and Logistics	Case Studies and Best Practices	Faculty Job Interview	
09:30 – 10:00	Coffee Break						
10:00 – 10:20	Welcome Addresses – Dr. Robert Joliet, Academic Director of Programs, Associate Professor of Finance, IESEG School of Management, France Professor Don Reimer, Chief Operating Officer, IEOM Society – Room A						10:00 – 1:00
10:20 – 11:00	Keynote I: Dr. George Q. Huang, Chair Professor of Smart Manufacturing and Director of Research Institute for Advanced Manufacturing, Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong – Room A						Business Management and Operations Management
11:00 – 11:40	Keynote II: Dr. Maged M. Dessouky, Dean's Professor of Industrial and Systems Engineering, and Department Chair, Daniel J. Epstein Department of Industrial and Systems Engineering, University of Southern California, Los Angeles, CA, USA – Room A						AI-ML Competition
11:40 – 12:20	Keynote III: Dr. Pervaiz Akhtar, PhD, MSc, MBA, BSc, PCAP & HE UK Senior Fellow, Chair Professor in Business Analytics, Big Data & Supply Chains and Director of MBA Programmes, University of Aberdeen, Aberdeen, UK – Room A						Supply Chain Management
12:20 – 13:00	Keynote IV: Bouchra LE HIR, Vice President Digital Transformation & Artificial Intelligence, Forvia Interiors, Paris, Île-de-France – Room A						
13:00 – 14:00	Lunch Break						
14:00 – 18:00	<b>Poster Session</b> (Size: A1 - 24 inches high x 36 inches wide, follow IEOM Poster Template, Please Bring Your Printed Poster)						
14:00 – 15:30		Women in Industry and Academia (WIIA) Panel	Business Management and Operations Management	Supply Chain and Logistics	Doctoral Competition Undergraduate Competition Global Design Competition Supply Chain and Logistics Competition	Faculty Job Interview	Lean Six Sigma Competition
15:30 – 16:00	Coffee Break						
16:00 – 18:00		Meet the Editors I	Quality, Reliability and Maintenance	Sustainability, Green Systems and Energy	Graduate Paper Competition High School STEM Competition	Faculty Job Interview	Competitions: UG Paper, UG Research MS Thesis Doctoral Dissertation Poster

## Thursday, July 3, 2025

	Room A (Onsite)	Room 2 (Onsite)	Room 3 (Onsite)	Room 4 (Onsite)	Room 5 (Onsite)	Room 6 (Onsite)	Room 7 – Virtual	
08:00 – 18:00	Registration							
08:00 – 09:30		Business Management and Operations Management	Entrepreneurship and Innovation	Sustainability, Green Systems and Energy	Simulation, Optimization and Productivity Improvement	Faculty Job Interview	Human Factors and Ergonomics Competition	
9:40 – 10:20	Keynote V: Dr. Farouk Yalaoui, Full Professor, Senior Director (Vice President) for Research, University of Technology of Troyes (UTT), France – Room A							
10:20 – 11:00	Keynote VI: Dr. Guoqing Zhang, Professor, Department of Mechanical, Automotive and Materials Engineering, Faculty of Engineering, University of Windsor, Canada							
11:00 – 11:40	Keynote VII: Dr. Petri Helo, Professor of Industrial Management and Head of Networked Value Systems Research Group, School of Technology and Innovations, University of Vaasa, Finland – Room A							
11:40 – 12:20	Keynote VIII: Dr. Min Xie, Chair Professor, Department of Systems Engineering and Chair Professor, Affiliate, Department of Data Science, City University of Hong Kong, PRC – Room A							
12:20 – 13:00	Keynote IX: Romain Bruniaux, Group Industrial VP & Power Division Industrial VP, Valeo, Paris, France – Room A							
13:00 – 14:00	Lunch Break - Room A (3rd floor)							
14:00 – 15:30		Global Supply Chain and Logistics Panel	Engineering Management and Project Management	Supply Chain and Logistics	Engineering Education and Curriculum Improvement	Six Sigma Workshop by Dr. Ahad Ali	Artificial Intelligence and Data Science	
15:30 – 16:00	Coffee Break							
16:00 – 18:00		PhD workshop by Dr. Linda Zhang	Digital Manufacturing, Industr 4.0 and IoT	Human Factors, Ergonomics and Healthcare	AI-ML Competition sponsored by Daikin Applied		Lean Six Sigma and Operations Excellence	

## Friday, July 4, 2025

	Room A (Onsite)	Room 2 (Onsite)	Room 3 (Onsite)	Room 4 (Onsite)	Room 5 (Onsite)	Room 6 (Onsite)	Room 7 – Virtual
08:00 – 18:00	Registration						
08:00 – 09:30		Case Studies and Best Practices	Supply Chain and Logistics	Digital Manufacturing, Industry 4.0 and IoT	Faculty Job Interview	Plenary Michel Eric YENE CEO, Valorys Trading Corp. Paris, Île-de-France	Industry 4.0, Automation, IoT and Reliability
09:30 – 10:00	Break						
10:00 – 10:20	Remarks from Conference Chairs – Room A						
10:20 – 11:00	Keynote X: Dr. Jianxin (Roger) Jiao, Associate Professor of Enterprise Systems Engineering, G.W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA, USA – Room A						
11:00 – 11:40	Keynote XI: Dr. Alexandre Dolgui, Professor and Head, Automation, Production and Computer Sciences Dept., IMT Atlantique, LS2N-CNRS, NANTES Cedex 3, France and Editor-in-Chief, International Journal of Production Research (IJPR) – Room A						
11:40 – 12:20	Keynote XII: Dr. Bingwen Yan, Professor, Head of Department, Department of Industrial & Systems Engineering, Cape Peninsula University of Technology, Cape Town, South Africa – Room A						
12:20 – 13:00	Keynote XIII: Dr. Thierry Benoist, Founder and CEO of Hexaly, Paris, France – Room A						
13:00 – 14:00	Lunch Break						
14:00 – 15:30		AI in Manufacturing Panel	Business Management	Manufacturing, Assembly and Design	Supply Chain and Logistics	Entrepreneurship and Innovation Workshop by Prof. Don Reimer	BM and Operations Management
15:30 – 16:00			Coffee Break				
16:00 – 18:00		Meet the Editors II	Sustainability, Green Systems and Energy	Lean Six Sigma and Operations Excellence	Engineering Management and Project Management		Sustainability and Green Systems
19:00 – 22:00	Conference Awards Dinner – Recognition of Awardees and Competition Winners						

## Room Assignments

PA00	Room A	Welcome Address, Opening and Keynotes
P122-123-124		Break Rooms (For Posters, Lunches, and Breaks)
P110		Secretariat
P111	Room 1	Session Room
P114	Room 6	Session Room
P115	Room 2	Session Room
P116	Room 3	Session Room
P125	Room 4	Session Room
P126	Room 5	Session Room
PA24	Room 7	Online Sessions Room

## July 2, 2025 (Wednesday)

### July 2, 2025 (Wednesday) – Session: 8:30 – 9:30 am

8:30 – 9:30 am, WEDNESDAY, July 2

Onsite Room 2

Session Chair: Tarık Küçükdeniz, Dept. Of Industrial Engineering, Istanbul University-Cerrahpaşa, Istanbul, Türkiye

### Artificial Intelligence and Data Science

**ID 163 Enhancing Engineering Education Through the Integration of Biometric Systems: A Systematic Literature Review**

Thalente Nkosi, Lecturer, Department of Civil Engineering Midlands, Durban University of Technology, Pietermaritzburg, Midlands, SA

**ID 171 Association Rules Learning for Predictive Maintenance in Industry Artificial Intelligence (AI)**

Hsiao-Kang Lin and Tzu-Jou Liao, Department of Industrial Management, I-Shou University, Kaohsiung City 84001, Taiwan R.O.C

**ID 241 Advanced Temporal Graph Models for Energy Commodity Price Predictions**

Shian-Chang Huang, National Changhua University of Education, Taiwan

**ID 256 Responsible AI for Patient Care Transitions: Balancing Fairness and Efficiency**

Manaf Zargoush and Somayeh Ghazalbash, Health Policy and Management, DeGroote School of Business, McMaster University, 1280 Main Street West., Hamilton, L8S 4L8, Canada

**ID 259 Time-GPT and LLM-Based Methods for Enhanced Demand Forecasting in Retail: A Comparative Study**

Tarık Küçükdeniz, Assoc. Professor, Dept. Of Industrial Engineering, Istanbul University-Cerrahpaşa, Istanbul, Türkiye  
Canan Hazal Akarsu, Asst. Prof., Dept. Of Corporate Data Management, Istanbul University-Cerrahpaşa, Istanbul, Türkiye  
Yeşim Altay, MSc Student, Dept. Of Industrial Engineering, Istanbul University-Cerrahpaşa, Istanbul, Türkiye

**ID 270 Policies for Drone-Based Post-Disaster Assessment**

Elvin Coban, Dept. Of Industrial Engineering, Ozyegin University, Istanbul, Türkiye

**ID 273 Machine Learning-Based Prediction of Dynamic Braking Torques in Dry-Running Friction Systems - A Data-Driven Approach to Optimize Industrial Brake Systems**

Stefan Altstetter, Chr. Mayr GmbH + Co. KG, Department of Research and Development (R&D), Mauerstetten, Germany  
Arne Bischofberger, Sascha Ott and Tobias Düser, Chief Engineer, Academic Director and Managing Director, Full Professor, IPEK Kit, Karlsruhe, Germany

8:30 – 9:30 am, WEDNESDAY, July 2

Onsite Room 3

Session Chair: Ángel Sánchez-Fernández, CEMI Navantia-UDC, Universidade da Coruña, Batallones s/n, 15403 Ferrol, Spain

### Simulation, Optimization and Productivity Improvement

**ID 172 Optimization of Thermal Performance in Different Perforated Pin Fins Using ANSYS**

Md. Golam Kader, Arup Kumar Debnath and Md. Rokibul Hasan Jony, Department of Mechanical Engineering, Khulna University of Engineering and Technology, Khulna, Bangladesh

**ID 240 A Multi-Fidelity Simulation Optimization Framework Applied to the Pod Sequencing Problem in A Robotic Mobile Fulfillment System**

Chun-Chih Chiu, Assistant Professor, Department of Business Management, National Taipei University of Technology, Taipei 106, Taiwan  
Wei-Ming Kuo, Master's student, Department of Industrial Engineering and Management, National Yunlin University of Science & Technology Yunlin 640, Taiwan



**ID 278 Improving Welding Job Scheduling in Shipbuilding with Optimization Algorithms**

Ángel Sánchez-Fernández and Elena Denisa-Vlad, Researcher, CEMI Navantia-UDC, Universidade da Coruña, Batallones s/n, 15403 Ferrol, Spain  
 Ana Ortega-Sarceda, Researcher, Universidade da Coruña, Campus Industrial de Ferrol, CITENI, Campus de Esteiro s/n, 15403 Ferrol, Spain  
 Javier Pernas-Álvarez and Diego Crespo-Pereira, Professor, Business Department, Universidade da Coruña, Campus Industrial de Ferrol, CITENI, GII, Campus de Esteiro s/n, 15403 Ferrol, Spain  
 Adolfo Lamas-Rodríguez, Belén Sañudo-Costoya, Santiago Tutor Roca, Navantia S.A, S.M.E, Taxonera.11, 15403 Ferrol, Spain

**ID 283 Optimizing Energy-Intensive Heating Processes in Manufacturing Using Bayesian Belief Networks: A Case Study in Thermoforming**

Iman Jalilvand, Niloofar Akbarian-Saravi, Bryn Crawford and Abbas S. Milani, Materials and Manufacturing Research Institute, School of Engineering, The University of British Columbia, Kelowna, BC, Canada  
 Bhushan Gopaluni, Data Analytics and Intelligent Systems (DAIS) Lab, Department of Chemical and Biological Engineering, University of British Columbia, Vancouver, Canada

**ID 310 A Comprehensive Approach to Enhancing Master Production Scheduling Strategies in Cable Manufacturing Through Improved Forecasting Methods and Process Optimization**

Yanina Lujan Guillen Gomez, Industrial Engineering, Taiwan-Paraguay Polytechnic University, Paraguay  
 Industrial Management, National Taiwan University of Science of Technology, Taiwan  
 Cecilia María Angélica Jara Baez, Industrial Engineering, Taiwan-Paraguay Polytechnic University, Paraguay  
 Industrial Management, National Taiwan University of Science of Technology, Taiwan  
 Yueh-Ling Chen, Industrial Engineering, Taiwan-Paraguay Polytechnic University, Paraguay  
 Industrial Management, National Taiwan University of Science of Technology, Taiwan  
 Shih-Hsien Tseng, National Taiwan University of Science and Technology, Taiwan

**ID 337 Productivity Analysis and Improvement Plan in Multi-Shift Fabrication Operations**

Akashkumar Dineshkumar Mishra, Student of Master of Technology, Production Engineering, Department of Mechanical Engineering, Managalayatan University, Aligarh, Uttar Pradesh, India  
 Shweta Bhardwaj, Asst Professor, Mechanical Engineering, Department of Mechanical Engineering, Managalayatan University, Aligarh, Uttar Pradesh, India

**8:30 – 9:30 am, WEDNESDAY, July 2****Onsite Room 4****Session Chair: Bingwen Yan, Cape Peninsula University of Technology, Cape Town, South Africa****Supply Chain and Logistics****ID 358 Towards Resilient Supply Chain Practices: The Role of Digital Supply Chain Technologies**

Abeeku Sam Edu, University of Ghana Business School, Ghana

**ID 361 Electric Vehicle Routing with Synchronized Mobile Charging Stations: Bi-Level vs. Joint Optimization Approaches**

Ihsan Sadati and Bülent Çatay, Sabanci University, Faculty of Engineering and Natural Sciences, Istanbul, Turkey  
 Smart Mobility and Logistics Lab, Sabanci University, Istanbul, Turkey

**ID 362 The Role of ISO 9001 in Improving Service Quality at Sobraga's Logistics Department**

Bingwen Yan and Axel Henrick Nze Ayong, Cape Peninsula University of Technology, Cape Town, South Africa

**ID 367 Towards a Sustainable Transport Sector: Assessing the Role of Green Hydrogen**

Zied Hajej and Sofiene Dellagi, Université de Lorraine, LGIPM, Metz 57073, France  
 Thamer Aldoughaish, Département de soutien à la recherche et à l'ingénierie, Riyad, Arabie-Saoudite  
 Ayoub Tighazoui, ICUBE Laboratory CNRS 7357/Département mécanique, University of Strasbourg, Strasbourg, France

**ID 396 Tensions in Going Green: Navigating the Environmental Gap and Power Imbalance in the LSP–Shipper Interface**

S.M. Mehdi Jourabchi, Assistant Professor of Operations and Supply Chain Management, Dhillon School of Business, University of Lethbridge (Calgary Campus), Calgary, Canada  
 D. Marc Kilgour, Professor of Mathematics, Department of Mathematics, Wilfrid Laurier University, Waterloo, Canada  
 Michael Haughton, Professor and CN Fellow in Supply Chain Management, Lazaridis School of Business and Economics, Wilfrid Laurier University Waterloo, Canada

**ID 406 Multi-Period Integrated Procurement and Production Problem for Perishable Products – An Extension of Traveling Purchaser Problem with Integrated Production and Distribution Systems**

Somu Gorai, Assistant Professor, Operations and Supply Chain Management, Indian Institute of Management Jammu, Jammu, India  
 Bodhibrata Nag, Full Professor, Operations Management, Indian Institute of Management Calcutta, Kolkata, India

**8:30 – 9:30 am, WEDNESDAY, July 2****Onsite Room 5****Session Chair: Anup Pradhan, University of Johannesburg, South Africa****Case Studies and Best Practices****ID 313 Applying the Elaboration Likelihood Model to Investigate Customer Behavioral Intention: The Case of Agarwood on Social Media Platforms**

Hui-Ling Huang, Department of Business Administration, Chang-Jung Christian University, Tainan City, Taiwan  
 Yue-Yang Chen, Department of Digital Media Design, Tzu-Hui Institute of Technology, Taiwan

Department of Business Administration, I-Shou University, Taiwan, Kaohsiung, Taiwan

Yu-Jyun Huang, Marketing specialists, W&W Trading and Consulting, UK

Nhat Nam Luong, Graduate Program in the Department of Business Administration, I-Shou University, Kaohsiung City, Taiwan

**ID 314 A Case Study of Operational Strategy of a Cocoa Processing Company by Employing the Business Model Canvas**

Yue-Yang Chen, Department of Digital Media Design, Tzu-Hui Institute of Technology, Pingtung, Taiwan

Department of Business Administration, I-Shou University, Taiwan, Kaohsiung, Taiwan

Lan-Chien Huang, Department of Early Childhood Educare, Tzu-Hui Institute of Technology, Pingtung, Taiwan

Hui-Ling Huang, Department of Business Administration, Chang-Jung Christian University, Tainan City, Taiwan

Senh-Quay Nim, Graduate Program in the Department of Business Administration, I-Shou University, Kaohsiung, Taiwan

## Business Management and Operations Management

**ID 364 Life Cycle Cost Analysis of Hydrogen Vehicle Considering the Economic Effects of Carbon Emission Reduction and the Optimal Maintenance of Fuel Cell: A Case of Forklift**

Deok-Joo Lee and Junhyung Kim, Department of Industrial Engineering, Seoul National University, Seoul, Republic of Korea

Seokhwan Hong, Hyundai Motor Company, Seoul, Republic of Korea

**ID 371 Driving Factors for The Application of Quality Management (QM) on Product and Service Delivery in South African Manufacturing Industry**

Festus Uche Uwadia, Emmanuel Innocents Edoun, Anup Pradhan and Charles Mbohwa, Faculty of Engineering and Built Environment, Department of Quality & Operation Management, University of Johannesburg, South Africa, 55 Beit St, Doornfontein, Johannesburg, South Africa

**8:30 – 9:30 am, WEDNESDAY, July 2**

**Onsite Room 6**

## Faculty Job Interview

**8:00 – 10:00 am, WEDNESDAY, July 2**

**Zoom Room 7**

**Online Session Chairs:** Sri Thirumalai, Director, Last Mile Delivery, Walmart, USA and Dr. Mizanur Rahman, IEOM Australia

**Onsite Session Chair:** Dr. Guoqing Zhang, Dept. of Mechanical, Automotive and Materials Engineering, University of Windsor, Canada

## Supply Chain and Logistics Competition sponsored by aThingz

**ID 369 Building Resilient and Sustainable Supply Chains: Impact on Organizational Social Performance**

Muhammad Asher Ud Din Qazi, Muhammad Sohaib Zafar and Tahir Khan, Department of Mechanical Engineering, University of Engineering and Technology, Lahore, Pakistan

Amjad Hussain, Professor, Department of Mechanical Engineering, University of Engineering and Technology, Lahore, Pakistan

Muhammad Adeel Munir, Lecturer, Department of Mechanical Engineering, University of Engineering and Technology, Kala Shah Kaku Campus Lahore, Pakistan

Ibrahim Ahmed, Abdullah Arshad, Khubaib Saeed and Muhammad Fasih Iqbal, Department of Mechanical Engineering, University of Engineering and Technology, Lahore, Pakistan

**ID 397 Improvement Model to Reduce Picking Errors and Increase Service Level Through Organizational and Logistical Control Tools in a Pharmaceutical Firm**

Sheyla Carina Chávez Chiuyari, From the Faculty of Engineering, student of the Industrial Engineering program, Universidad de Lima, Santiago de Surco, Lima, Perú

Richard Meza Ortiz, Faculty of Industrial Engineering, Professor, School of Industrial Engineering, Member, Operation Management and Green Logistics Research Group, Universidad de Lima, Santiago de Surco, Lima, Perú

**ID 410 Building Robust Food Supply Chains through Routing Optimization: A Case Study of KDD in Kuwait**

Fay Yousef AlMaatouq, Fouz Fawaz Jassim Alshehab, Yasmeen Khaled Mohammad AlMuhaini and Alperen Bal, College of Engineering and Technology, American University of the Middle East, Kuwait

**ID 429 Warehouse Optimization for Sustainability: A Case of a Company Supplying Renewable Energy Components**

Mfundo Nkosi and Yonatan Glassman, University of Johannesburg, South Africa

**ID 444 Tech for Trust: Leveraging IoT, AI, and Blockchain to Reduce Waste and Improve Supply Chain Integrity**

Sameer Misbah, Senior Software Engineer | Phd Researcher, Fast NUCES, Karachi, Pakistan

Muhammad Farukh Shahid, National University of Computer & Emerging Sciences, Pakistan

Shahbaz Siddiqui, Assistant Professor, Fast NUCES, Karachi, Pakistan

## Simulation Competition

**Session Chair:** Dr. Petri Helo, University of Vaasa, Finland

**ID 254 Utilizing Tecnomatix PLM by Siemens to Design Manufacturing Facilities**

Ghadeer AlQattan, Student, American College of the Middle East, Eqaila, Kuwait

Imad Amine, Head of Industrial Engineering Technology Program, American College of the Middle East, Eqaila, Kuwait

**ID 366 Manufacturing Process Optimization via an Ergo Green Lean Framework for Enhanced Sustainability**

Abdullah Arshad, Ibrahim Ahmad, Khubaib Saeed and Muhammad Fasih Iqbal, Department of Mechanical Engineering, University of Engineering and Technology, Lahore, Pakistan

Amjad Hussain, Professor, Department of Mechanical Engineering, University of Engineering and Technology, Lahore, Pakistan

Amjad Mehmood, Director Operations, Technology and Management Integratix, Lahore, Pakistan

Muhammad Asher Ud Din Qazi, Tahir Khan and Muhammad Sohaib Zafar, Department of Mechanical Engineering, University of Engineering and Technology, Lahore, Pakistan

**ID 411 Optimum Shelter Location Problem Using Predicted Injuries**

Şule Nur Sargin, Department of Industrial Engineering, Istanbul Medeniyet University, Istanbul, 34700, Turkey

Ebru Angün, Department of Industrial Engineering, Galatasaray University, Istanbul, 34349, Turkey

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**July 2, 2025 (Wednesday) – Session: 10:00 am – 1:00 pm – Onsite Room A**

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**Keynote Speakers**

Welcome Address from the Host University: Wednesday, July 2, 2025, 10:00 – 10:20 am

**Dr. Robert Joliet**

Academic Director of Programs

Associate Professor of Finance

IÉSEG School of Management, France

Opening Keynote: Wednesday, July 2, 2025, 10:20 – 11:00 am

**Prof. George Q. Huang**

Chair Professor of Smart Manufacturing

Director of Research Institute for Advanced Manufacturing

Department of Industrial and Systems Engineering

The Hong Kong Polytechnic University

Hung Hom, Kowloon, Hong Kong

Keynote II: Wednesday, July 2, 2025, 11:00 – 11:40 am

**Dr. Maged M. Dessouky**

Dean's Professor of Industrial and Systems Engineering

Professor of Industrial and Systems Engineering and Spatial Sciences Institute

Department Chair, Daniel J. Epstein Department of Industrial and Systems Engineering

USC Viterbi School of Engineering

University of Southern California

Los Angeles, California, USA

Keynote III: Wednesday, July 2, 2025, 11:40 am – 12:20 pm

**Dr. Pervaiz Akhtar, PhD, MSc, MBA, BSc, PCAP & HE UK Senior Fellow**

Chair Professor in Business Analytics, Big Data & Supply Chains and

Director of MBA Programmes

University of Aberdeen, Aberdeen, UK



Keynote IV: Wednesday, July 2, 2025, 12:20 – 1:00 pm

**Bouchra LE HIR**

Vice President Digital Transformation & Artificial Intelligence

Forvia Interiors

Paris, Île-de-France, France

1:00 pm – Buffet Lunch

10:00 – 12:00 am, WEDNESDAY, July 2

Zoom Room 7

Session Chair: Dr. Mizanur Rahman, IEOM Australia

## Business Management and Operations Management

### ID 261 Bibliometric analysis of barriers to telework in industrial companies

Sirine Bouaziz, PhD student, Higher Institute of Industrial Management of Sfax, Tunisia

Dorra Kallel, Higher Institute of Industrial Management of Sfax, Tunisia

Noura Beji, Higher Institute of Industrial Management of Sfax, Tunisia

Diala Dhoub, Higher Institute of Industrial Management of Sfax, Tunisia

### ID 231 Optimizing Assembly Line Balancing with Heterogeneous Learning: A MILP Approach for Task and Worker Assignment

Zakaria Zine El Abidine, Imre Dimény and Tamás Koltai, Department of Management and Business Economics, Budapest University of Technology and Economics, H-1521, Budapest, P.O.B. 91, Hungary

### ID 232 Minimizing Makespan in Simple Assembly Lines: A MILP Approach Considering Learning and Fatigue Effects

Zakaria Zine El Abidine and Tamás Koltai, Department of Management and Business Economics, Budapest University of Technology and Economics, H-1521, Budapest, P.O.B. 91, Hungary

### ID 336 The Algorithmic Vanguard Unleashed: How Digital-Augmented Agility Rewrites Organizational Intelligence

Raul Ionuț RITI, PhD student, Technical University of Cluj-Napoca, Cluj, Romania

Claudiu ABRUDAN, Technical University of Cluj-Napoca, Cluj, Romania

Laura BACALI, Technical University of Cluj-Napoca, Cluj, Romania

Nicolae BĂLC, Technical University of Cluj-Napoca, Cluj, Romania

### ID 338 The Influence of Servant Leadership on Psychological Safety in Government Organizations: A Quantitative Study from Oman

Tamim al Busaidi, PhD Student, Head of Receiving Department in Diwan of Royal court, Sultanate of Oman, Muscat, Oman

Ali al Kalbani, Lecturer, College of Economics and Business Administration, University of Technology and Applied Sciences, Al-Musannah, Oman

### ID 339 Psychological Safety as a Mediator Between Leadership Style and Knowledge Sharing Behavior: Evidence from the Public Sector

Tamim al Busaidi, PhD Student, Head of Receiving Department in Diwan of Royal court, Sultanate of Oman, Muscat, Oman

Ali al Kalbani, Lecturer, College of Economics and Business Administration, University of Technology and Applied Sciences, Al-Musannah, Oman

## AI-ML Competition

Session Chair: Dr. Hajej Zied, Associate Professor, University of Lorraine, Metz, France

### ID 409 Simultaneous Reduction of False Positives and Negatives in Strawberry Quality Control via YOLO Computer Vision

Mariam Almutairi, Sundos Alazemi, Fatima Saleh, Latifah Aljeaan, Manal AL-mutairi, and Takeaki Toma, College of Engineering and Technology Faculty of Industrial Engineering American University of the Middle East Egaila, Kuwait

### ID 468 AI-enabled Human Behavior Dynamics in Sociotechnical Manufacturing Systems: A Multimodal Ensemble Transformer

Mulang Song and Roger J. Jiao, School of Industrial and Systems Engineering, Georgia Institute of Technology, USA

## Supply Chain Management

### ID 216 Effect of Corporate Allegations: Do Supply Chain Partners Face Spillover Effects?

Lalbabu Nishad, Operations Management, Indian Institute of Management Udaipur, Udaipur, Rajasthan, India

### ID 441 Impact of Emerging Industry 4.0 Technologies on Supply Chain Management: Advantages, Challenges, and Future Research

Jeet Gor, Department of Computer Science Engineering, School of Technology, Pandit Deendayal Energy University, Gandhinagar, India

M.B. Kiran, Associate Professor, Department of Mechanical Engineering, School Of Technology, Pandit Deendayal Energy University, Gandhinagar, India

**ID 223 A Process-Based Cost Estimation Model for Metal Spare Parts Production Using Additive Manufacturing**

Muhammad Fahad Sheikh, Majed Hadid and Regina Padmanabhan, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar Foundation, Doha, Qatar  
 Fatima Al Abtah and Marwan Khraisheh, Mechanical Engineering Program, Texas A&M University at Qatar, Doha 23874, Qatar  
 College of Science and Engineering, Hamad Bin Khalifa University, Qatar Foundation, Doha, Qatar  
 Adel Elomri and Laoucine Kerbache, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar Foundation, Doha, Qatar

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## 2:00 - 6:00 pm – Poster Session

Please bring a printed poster (A1 size: 24 inches high x 36 inches wide).

**Poster Competition Chair: Dr. Petri Helo, University of Vaasa, Finland**

**ID 168 A resilient ecosystem model to support targeted prevention plans for Occupational Safety and Health: The PMP 5.0 project**

Gaia Vitranò, Politecnico di Milano, Italy

**ID 175 The Limits of Lean Production Systems for Reverse Logistics Integration**

M. Eng. Christoph Müller and Prof. Dr. Markus Schneider, Technology Center for Production and Logistics Systems (TZ PULS), Landshut University of Applied Sciences, Landshut, Germany

**ID 214 Analysis of Deterministic and Stochastic Algorithms to Find the Shortest Path in the Drilling Process in a CNC Machine as a Function of the Number of Holes**

Juan Fleitas Marusic and Nicolas Huaman Blas, Ricardo Palma's Student, Industrial Engineering, School of Engineering, Lima, Peru  
 Manuel López Miranda, Engineer, Master in Science in Industrial Engineering, School of Engineering, Lima, Peru

**ID 242 The Channel Model Selection of Home Country Manufacturers Entering the Host Country Market in The Context of Joint Venture**

Huang Zuqing, Liu Jiaao, Duan Housheng and Huang Xiaoling, School of Management, Guangzhou University, Guangzhou 510006, China

**ID 246 Impact of Work Hardening on the Surface Anisotropy and mechanical properties of a Low-Alloy Steel**

Mounira Bourebia, Soumaya Meddah, Sihem Achour, Khadidja Bouhamla, Amel Oulabbas, Walid. Ghennai, Ahlem Taleb, Salah Remili and Abdeljalil Haddad, Research Center in Industrial Technologies CRTI, Annaba, Algeria  
 Lakhdar Laouar, Industrial mechanics laboratory, Badji Mokhtar University, Annaba, Algeria

**ID 253 A System Dynamics Model for Evaluating WEEE in Hong Kong**

Po Tung NG, K. L. KEUNG and CKM Lee, Department of Industrial and Systems Engineering, The Hong Kong Polytechnic University, Hung Hom, Hong Kong SAR, China

**ID 316 Platform Bias and Private Label Power: Interactions in Dual-Product Online Retail**

Raziyeh Reza-Gharehbagh, Dept. of Supply Chain and Management Digital, EM Normandie Business School, Le Havre, France

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## July 2, 2025 (Wednesday) – Session: 2:00 – 3:45 pm

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**2:00 – 3:30 pm, WEDNESDAY, July 2**

**Onsite Room 2**

### **Women in Industry and Academia (WIIA) Panel sponsored by Ford Motor Company**

Panel Co-Chairs

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

Dr. Anjali Awasthi  
 Professor, CIISE  
 Concordia University  
 Montreal, Canada  
 Past President, Canadian Operations Research Society

Panel Speaker I

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

Panel Speaker II

Dr. Xuan (Jen) Zhao  
Professor in Operations and Decision Sciences  
Lazaridis School of Business and Economics  
Wilfrid Laurier University  
Waterloo, Ontario, Canada

Panel Speaker III

Dr. Zhe Yuan  
Associate Professor  
EMLV Business School  
Paris, France

Panel Speaker IV

Dr Carman Ka Man  
Associate professor  
Department of Industrial and Systems Engineering  
The Hong Kong Polytechnic University  
Hong Kong, PRC

**2:00 – 3:30 pm, WEDNESDAY, July 2**

**Onsite Room 3**

**Session Chair: Sudhakar Deshmukh, Kellogg School of Management, Northwestern University, Evanston, IL, United States**

## **Business Management and Operations Management**

### **ID 165 The Adoption of Digital Technology in South African Mines**

Leago Sathekge, Department of Engineering and Technology Management, Faculty of Engineering and the Built Environment, University of Pretoria, Pretoria, South Africa  
Hannelie Nel, Associate Professor in Engineering Management, Department of Engineering and Technology Management, Faculty of Engineering and the Built Environment, University of Pretoria, Pretoria, South Africa  
Marthinus du Plessis, Researcher and Innovation Consultant, Department of Engineering and Technology Management, Faculty of Engineering and the Built Environment, University of Pretoria, Pretoria, South Africa

### **ID 176 Impact of Market Heterogeneity on Retailers' Competition for Quality of Services, Price and Location in a Duopoly**

Saman Asvadi, PhD Student, Dept. Of Supply Chain and Business Tech. Management, Concordia University, Montreal, Canada  
Satyaveer S Chauhan, Dept. Of Supply Chain and Business Tech. Management, Concordia University, Montreal, Canada

### **ID 180 An optimization model for periodic maintenance of industrial equipment with uninterrupted operation**

Cleber Damiao Rocco, Associate professor, University of Campinas – Unicamp, School of Applied Sciences, Limeira, SP, Brazil  
Gabriel Adam Bilato, Doctorate candidate, University of Campinas – Unicamp, School of Applied Sciences, Limeira, SP, Brazil  
Renan Alves do Nascimento, M.Sc. in engineering, University of Campinas – Unicamp, School of Applied Sciences, Limeira, SP, Brazil

### **ID 191 Developing the Fuzzy Performance Evaluation Matrix for E-learning System**

Chun-Min Yu and Yu-Ling Chen, Department of Industrial Engineering and Management, National Chin-Yi University of Technology, Taichung 411030, Taiwan  
Yen-Po Chen, School of Philosophy, Psychology and Language Sciences, The University of Edinburgh, Edinburgh EH8 9YL, UK  
Wen-Yang Kao, Office of Physical Education, National Chin-Yi University of Technology, Taichung 411030, Taiwan  
Lujia Yang, Cardiff Business School, Cardiff University, Cardiff CF10 3AT, UK  
Hsuan-Yu Chen, Department of Industrial Engineering and Management, National Yang Ming Chiao Tung University, Hsinchu 300093, Taiwan

### **ID 221 Proposing A Framework for Smart Product-Service System Design Evaluation**

Safa Azimi, PhD Candidate, Department of Industrial Engineering, Eastern Mediterranean University, Famagusta, Northern Cyprus  
Béla Vizvári, Full Professor of Industrial Engineering, Eastern Mediterranean University, Famagusta, Northern Cyprus

### **ID 226 An Investigation of the Sustainability Agenda – or Lack of Same - in Supply Chain Transformation Programs**

Linda Englyst, Assistant Professor of Operations Management, Department of Business Development and Technology, Aarhus BSS – Aarhus University, Herning, Denmark

### **ID 245 Management of Processing Systems: A Framework for Operations Management**

Sudhakar Deshmukh, Kellogg School of Management, Northwestern University, Evanston, IL, United States

**2:00 – 3:30 pm, WEDNESDAY, July 2**

**Onsite Room 4**

**Session Chair: Meilinda Maghfiroh, Faculty of Transport and Logistics, Muscat University, Muscat, Oman**

## **Supply Chain and Logistics**

### **ID 156 A Blockchain-Integrated MCDM Framework for Dental Supplier Selection: Enhancing Transparency and Decision-Making Efficiency**

Fatemeh Hamta Safarian, Doctor of Dental Surgery (DDS), School of Dentistry, Tehran Azad University, Tehran, Iran



Meysam Shaverdi, PhD in Supply Chain & Logistics, School of Accounting, Information Systems and Supply Chain, RMIT University, Melbourne, Victoria, Australia

**ID 157 Leveraging Blockchain Technology for Policymaking and Coordination in National and Global Supply Chains: An MCDM Approach**

Meysam Shaverdi, PhD in Supply Chain & Logistics, School of Accounting, Information Systems and Supply Chain, RMIT University, Melbourne, Victoria, Australia

MohammadHossein Shaverdi, School of Law and Political Sciences, Allameh Tabatabaie University, Tehran, Iran

**ID 158 Critical Success Factors for Supply Chain Practices in Oman's O&G Sector: An Approach Through Advanced Technologies and Circular Economy**

Jacob Pratabaraj, Faculty of Transport and Logistics, Muscat University, Muscat, Sultanate of Oman, Oman

Maryam Rahman, Faculty of Transport and Logistics, Muscat University, Muscat, Sultanate of Oman, Oman

Meilinda Maghfiroh, Faculty of Transport and Logistics, Muscat University, Muscat, Sultanate of Oman, Oman

Ahmed Maher Mohammed, Department of Management, Birmingham Business School, University of Birmingham, Dubai International Academic City, Dubai, P.O. Box 341799, United Arab Emirates

**ID 174 Artificial Intelligence as a Driver for Supply Chain Financial Performance: A Review and Conceptual Framework**

Lubna Al Jabri and Nasir Zubairu, Faculty of Transport & Logistics, Muscat University, Muscat, Oman

**ID 194 Managing Returns by Selling and Pricing Strategies with Online Product Reviews**

Miao Sun, Assistant Professor, Institute of Western China Economic Research, Southwestern University of Finance and Economics, China

Jing Chen, Full Professor of Operations Management, Department of Management Science and Information System, Faculty of Management, Dalhousie University, Halifax, Canada

**2:00 – 3:30 pm, WEDNESDAY, July 2**

**Onsite Room 5**

**Session Chair: Dr. Surajit Bag, Full Professor at Excelia Business School, France**

## Doctoral Dissertation Competition sponsored by Airbus

**ID 225 Balancing Operating Room Utilization Through Volatility-stratified Surgical Portfolios**

Lauri Saarinen and Chao Pan, Department of Industrial Engineering and Management, School of Science, Aalto University, Espoo 02150, Finland

Erik Demeulemeester, Professor, Research Centre for Operations Management, Faculty of Economics and Business, KU Leuven, Leuven, Belgium

**ID 431 Behavioral Retail Operations to Incentivize Customers**

Nymisha Bandi, McGill University, Canada

## Undergraduate Student Paper Competition sponsored by Siemens

**Session Chair: Dr. Pervaiz Akhtar, University of Aberdeen, Aberdeen, UK**

**ID 159 Method for Developing a Digital Transformation Maturity Model for the Manufacturing Industry**

Andrea Cantú, Ana Fernanda Salinas, Valeria Contreras and Ayesha De Anda, Alumni of Engineering Management Bch.D, University of Monterrey Nuevo León, México

Luz María Valdez-de la Rosa, Associate Professor, Department of Civil Engineering & Engineering Management, University of Monterrey, Nuevo León, México

## Supply Chain and Logistics Competition sponsored by aThingz

**Session Chair: Dr. Guoqing Zhang, Department of Mechanical, Automotive and Materials Engineering, University of Windsor, Canada**

**ID 356 Multi-effects strategic decisions in the context of supply chain resilience for the maritime port system**

Fabricio Moreno-Baca, Department of Logistic and Supply Chain Management, Universidad Popular Autónoma del Estado de Puebla (UPAEP), México

Center Leo Apostel, Vrije Universiteit Brussel, Belgium

Patricia Cano-Olivos, Diana Sánchez-Partida and José-Luis Martínez-Flores, Department of Logistic and Supply Chain Management, Universidad Popular Autónoma del Estado de Puebla (UPAEP), México

**2:00 – 3:30 pm, WEDNESDAY, July 2**

**Onsite Room 6**

## Faculty Job Interview

**2:00 – 3:30 pm, WEDNESDAY, July 2**

**Zoom Room 7**

**Session Chair: Dr. Mohammad Shamsuzzaman, Prof. of Industrial Engineering and Engineering Management, University of Sharjah, UAE and Dr. Nazrul Islam, IEOM Canada**

## Lean Six Sigma Competition

**ID 304 Minimizing Turn Over Time for Rental Unit Availability: Implementing Six Sigma DMAIC Methodologies**

Aashana Bhosle, CSUN, United States

**ID 331 Improving the Rate of Patient No Show to The Klotz Student Health Center at California State University Northridge**

Christopher Villalpando, Lina Gurgonian, Charity Custance, and Sipedeh Abolghasem, Department of Manufacturing Systems Engineering and Management, California State University Northridge, Northridge, California, United States

**ID 347 Improving the Rate of Patient No Show to The Klotz Student Health Center at California State Northridge**

Christopher Villalpando, Lina Gurgonian, Charity Custance, and Sepideh Abolghasem, Department of Manufacturing Systems Engineering and Management, California State University Northridge, Northridge, California, United States

**ID 351 Minimizing Turnover Time for Rental Unit availability Using Lean Six Sigma DMAIC Methodology**

Aashana Kamlesh Bhosale, Hrutwik Dynaneshwar Tambe, Subhojeet Das, and Sepideh Abolghasem, Department of Manufacturing Systems Engineering and Management, California State University Northridge, Northridge 91330, California, USA

## Global Design Competition

Session Chair: Dr. Adel Elomri, Associate Professor, College of Science and Engineering, Hamad Bin Khalifa University, Qatar

**ID 365 Cohesive Governance: A Process-Based Approach for Corporate Design and Subsidiary Success based on Efficient Value Creation**

Mahdi Bastan, Graduate School of Management and Economics, Sharif University of Technology, Tehran, Iran

Deputy of Strategic Development, Golrang Industrial Group, Tehran, Iran

Yousef Asgari, Zarifeh Shahrashoob and Bitia Elahifar, Deputy of Strategic Development, Golrang Industrial Group, Tehran, Iran

Mahla Sadat Rezaei, Faculty of Commerce and Trade, College of Management, University of Tehran, Tehran, Iran

## Senior Design Competition / FYP Competition

Session Chair: Dr. Pervaiz Akhtar, University of Aberdeen, Aberdeen, UK

**ID 403 Managing the Electronic Waste of Kuwait by Industrial Symbiosis and Reduce-Reuse-Recycle (3R) Applications**

Ozgur Uysal, Assistant Professor, College of Engineering and Technology, American University of the Middle East, Kuwait

Hessa Alraqum, Reema Almutairi, Sara Almansouri, Sarah Ali and Shahad Mandi, BS Students of Industrial Engineering, American University of the Middle East, Kuwait

## Sustainability, Green Systems and Energy

**ID 222 Sensitivity Analysis of a Metal Hydride Reactor Utilizing LaNi<sub>4.8</sub>Sn<sub>0.2</sub> Metal Hydride**

Douw G Faurie, Kasturie Premiall and Andrei Kolesnikov, Department of Chemical Metallurgical and Materials Engineering, Tshwane University of Technology, Pretoria, Republic of South Africa

Mykhaylo Lototsky, HySA Systems, South African Institute for Advanced Materials Chemistry, University of the Western Cape, Cape Town, Republic of South Africa

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## July 2, 2025 (Wednesday) – Session: 4:00 – 6:00 pm

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4:00 – 6:00 pm, WEDNESDAY, July 2

Onsite Room 2

## Meet the Editors I

Co-Chairs: Dr Carman Ka Man and Dr. Laoucine Kerbache

Dr. Jianxin (Roger) Jiao

Associate Professor of Enterprise Systems Engineering

G. W. Woodruff School of Mechanical Engineering

Georgia Institute of Technology, Atlanta, GA, USA

Prof. George Q. Huang

Chair Professor of Smart Manufacturing

Director of Research Institute for Advanced Manufacturing

Department of Industrial and Systems Engineering

The Hong Kong Polytechnic University

Hung Hom, Kowloon, Hong Kong

Dr. Maged M. Dessouky

Dean's Professor of Industrial and Systems Engineering

Professor of Industrial and Systems Engineering and Spatial Sciences Institute

Department Chair, Daniel J. Epstein Department of Industrial and Systems Engineering

USC Viterbi School of Engineering

University of Southern California, Los Angeles, California, USA

Dr. Min Xie  
Chair Professor, Department of Systems Engineering and Chair Professor, Affiliate, Department of Data Science  
City University of Hong Kong  
Tat Chee Avenue, Kowloon, Hong Kong, PRC  
Fellow of IEEE (2006), Elected Member of Int Statistical Institute (2010)  
Member of European Academy of Sciences and Arts (2022)  
Asian Region VP of Inst of Industrial and Systems Engineers (2022-2024)

Dr Carman Ka Man  
Associate professor  
Department of Industrial and Systems Engineering  
The Hong Kong Polytechnic University, Hong Kong, PRC

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

**4:00 – 6:00 pm, WEDNESDAY, July 2****Onsite Room 3****Session Chair: Indra Gunawan, Adelaide Business School, The University of Adelaide, Adelaide, Australia**

## Quality, Reliability and Maintenance

**ID 161 Evaluation of Multistage Interconnection Networks Reliability using Monte Carlo Method**

Indra Gunawan, Adelaide Business School, The University of Adelaide, Adelaide, Australia

**ID 192 A multi-measurement points evaluation and improvement decision-making model for solder paste printing in SMT**

Kuen-Suan Chen, Department of Industrial Engineering and Management, National Chin-Yi University of Technology, Taichung 411030, Taiwan, R.O.C

Department of Business Administration, Chaoyang University of Technology, Taichung 413310, Taiwan, R.O.C

Department of Business Administration, Asia University, Taichung 413305, Taiwan, R.O.C

Chun-Min Yu and Shui-Chuan Chen, Department of Industrial Engineering and Management, National Chin-Yi University of Technology  
Taichung 411030, Taiwan, R.O.C

**ID 193 A Performance Evaluation Model for the Cable TV Industry Using Quality Loss Function and Gamma Distribution**

Tsun-Hung Huang, Chun-Min Yu and Yen-Chun Huang, Department of Industrial Engineering and Management, National Chin-Yi University of Technology, Taichung 411030, Taiwan

**ID 264 Evaluating order fulfillment performance of multiple classes of products via network reliability**

Hsuan-Yu Chen and Yi-Kuei Lin, Department of Industrial Engineering and Management, National Yang Ming Chiao Tung University, Hsinchu 300093, Taiwan

Kuen-Suan Chen, Department of Industrial Engineering and Management, National Chin-Yi University of Technology, Taichung 411030, Taiwan

**4:00 – 6:00 pm, WEDNESDAY****Onsite Room 4****Session Chair: Peter Kilbourn, University of Johannesburg, South Africa**

## Sustainability, Green Systems and Energy

**ID 173 Governance in Circular Economy: A critical review and way forward**

Surajit Bag, Full Professor of Supply Chain, Purchasing and Project Management, Excelia Business School, La Rochelle, France

Peter Kilbourn, Associate Professor of Supply Chain Management, Department of Transport and Supply Chain Management, University of Johannesburg, Johannesburg, South Africa

Susmi Routray, Professor of Information Technology, Institute of Management Technology Ghaziabad, Delhi-NCR, India

**ID 201 From Challenges to Solutions: Identifying challenges in Hydrogen Supply Chain Deployment**

Meilinda F.N. Maghfiroh, Fatma Al Barwani and Fatma Al Balushi, Faculty of Transport & Logistics, Muscat University, Muscat, Oman

**ID 204 Material Flow Analysis for Agro-Industrial By-Product and Waste Valorization in Advancing Circular Economy Transition**

Tomás Justino and Vanessa Magalhães, Department of Mechanical Engineering, Faculty of Sciences and Technologies of University of Coimbra  
Coimbra, Portugal

Susana Garrido, Faculty of Economics of University of Coimbra, Coimbra, Portugal

**ID 224 Enhancing Tire Recycling Supply Chains for Sustainable Waste Management: Insights from a Data-Driven Optimization Study**

Abdullah Riad, Majed Hadid and Regina Padmanabhan, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar Foundation Doha, Qatar

Mohammed Matar, Bright Future Tyre Recycling Factory, Doha, Qatar

Adel Elomri and Laoucine Kerbache, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar Foundation Doha, Qatar



**ID 228 Developing a Framework to Improve Supply Chain Resilience Strategies for Offshore Wind Energy Organizations using a Circular Economy Approach**

Emeka Nwonu, Jose Eduardo Munive-Hernandez and Cuong Dao, Faculty of Engineering & Digital Technologies, University of Bradford, Bradford, BD7 1DP, United Kingdom

**ID 177 Assessing the Impact of Autonomous Vehicles on Supply Chain Performance – A Case Study of Agri-Food Supply Chain**

Nitish Suvarna and Anjali Awasthi, CIISE, Concordia University, Canada

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**4:00 – 6:00 pm, WEDNESDAY, July 2****Onsite Room 5****Session Chair: Dr. Pervaiz Akhtar, University of Aberdeen, Aberdeen, UK**

## Graduate Student Paper Competition sponsored by Eaton Corporation

**ID 265 Winning the Race to 2050 Zero Emissions Goal: Integrating Alternative Fuels, Smart Mobility, and Transportation Access to Decarbonize the Mobility Sector**

Leonardo Frizziero, Davide Cardì, Curzio Pagliari and Giulio Galiè, Department of Industrial Engineering, Alma Mater Studiorum - Università di Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

Ahad Ali and Don Reimer, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University Southfield, MI 48075, USA

**ID 274 Comparative Evaluation of CAD Software for Automotive Front-End Design: A Case Study in Design Efficiency and Usability Metrics**

Giulio Galiè, Curzio Pagliari and Leonardo Frizziero, Department of Industrial Engineering, Alma Mater Studiorum - Università di Bologna, Viale Risorgimento, 2 – 40136, Bologna, Italy

**ID 343 Cybersecurity Awareness and Behavior among Faculty and Students in E-Learning Environments**

Hajer al Kalbani, Assistant Professor, Department of Computer Science and Creative Technologies, Global College of Engineering and Technology Ali al Kalbani, Lecturer, College of Economics and Business Administration, University of Technology and Applied Sciences, Al-Musannah, Oman

**ID 432 Bundling or Discounting? Field Experiments for Healthy and Unhealthy Food**

Nymisha Bandi, McGill University, Canada

## High School STEM Competition

**Session Chair: Prof. Don Reimer, IEOM USA****ID 333 Smart Clothing System (AKS): An Innovative IoT-Based Solution for Kids**

Egehan Bayram, High School student, Zonguldak, Turkey

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**4:00 – 6:00 pm, WEDNESDAY, July 2****Onsite Room 6**

## Faculty Job Interview

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**4:00 – 6:00 pm, WEDNESDAY, July 2****Zoom Room 7****Session Chair: Dr. Nazrul Islam, IEOM Canada**

## Undergraduate Student Paper Competition sponsored by Siemens

**ID 154 Capacity Analysis and Optimization Usage for Blood Plasma Freezers**

Christopher J. Skaria, Shaunak R. Patel, Elizabeth G. Farah and Trisha Gupta, University of Illinois at Urbana-Champaign, United States

**ID 383 Systematic Review of the Literature on Operations Management in Servuction Systems: A Case Study of Cooperative Services**

Isaac José Cijanes Ballestas, CIPTec Research Group - TIPS Research Incubator, Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production, Fundación Universitaria Tecnológico Comfenalco, Cartagena, Colombia

Huier Alberto Bravo Andrades, CIPTec Research Group - TIPS Research Incubator, Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production, Fundación Universitaria Tecnológico Comfenalco, Cartagena, Colombia

Hernando Garzón Sáenz, CIPTec Research Group - Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production Fundación Universitaria Tecnológico Comfenalco, Cartagena de Indias, Colombia

Andrés Redchuk, ETSII. Department of Computer Sciences. University Rey Juan Carlos. Madrid. Spain  
Director of Operational Excellence and Process Improvement Institute

**ID 402 Assessing the Safety Climate of a Local Company by NOSACQ-50 Questionnaire**

Ozgur Uysal, Assistant Professor, College of Engineering and Technology, American University of the Middle East, Kuwait

Deema Albanwan, Fouz Almutairi, Rawad AlRashidi, Shahad Al Olaimi and Taibah Alholi, BS Students of Industrial Engineering, American University of the Middle East, Kuwait

**ID 439 The Impact of Content Moderator Accounts on BPO Workers: Exploring How Social Media Content Exposure Contributes to Stress and Mental Health Challenges**

Francis Lord Aspecto, Mary Grace P Bello, Christian G. Cabalatungan, Joseph Raniag C. Macarulay, Johnvylle O. Mallari, Kevin John F. Renido, Jelsey Marie T. Concepcion, Lynz Krisha L. Reyes, and Maricar M. Navarro, Industrial Engineering Program, College of Engineering and Architecture, Technological Institute of the Philippines, Quezon City, Philippines

**ID 459 Generic Bills-of-Materials-Operations-Sustainability (GBOMOS) for Reconfigurable Green Manufacturing: A Cognitive Intelligent Reasoning Pilot through Retrieval Augmented Generation (RAG)**

Catherine K. Jiao, School of Industrial and Systems Engineering, Georgia Institute of Technology, USA  
Mulang Song and Yiyun (Cindy) Fei, School of Mechanical Engineering, Georgia Institute of Technology, USA  
Shu Wang, TE Connectivity, Middletown, Pennsylvania, USA  
Bening Mayanti and Petri Helo, School of Technology and Innovations, Industrial Management, University of Vaasa, Finland

## Undergraduate Research Competition sponsored by Daikin Applied

**ID 408 Investigating Indoor Air Quality in Kuwait: A Study of Bokhour Smoke, Traffic Emissions, and Public Perception**

Latifa Bokhadra, Sara Alajmi, Reham Almayyas and Takeaki Toma, College of Engineering and Technology, Faculty of Industrial Engineering, American University of the Middle East Egaila, Kuwait

**ID 440 Balancing Academic Responsibilities, Work, and Leadership: Assessing the Mental Workload and Emotional Capacity of Working Students and Student Leaders in the National Capital Region**

Jelsey Marie Concepcion, Justine Julia Marie Sevilla, Cristel Ann Sevileno, Angelica Aelora Baluyot, Franchesca Roi Cipriano, Christian Jess Garriga, Jhovic Querido, Lynz Krisha Reyes, and Maricar M. Navarro, Industrial Engineering Program, College of Engineering and Architecture, Technological Institute of the Philippines, Quezon City, Philippines

**ID 461 Enhanced Employee Engagement Through Generative AI Assistance: A Combined Technology Acceptance and Organizational Support Model**

Nikko Luis Tabasa, Angelo Lapascua, Trishia Anne Marie Cobalida, Samantha Caragay, Rhiza Anne Barbara Lopez, Job Kiko Raymundo, Gail Asayas Guevarra, and Maricar M. Navarro, Department of Industrial Engineering, Technological Institute of the Philippines, Quezon City, Metro Manila, Philippines

## Master's Thesis Competition

**ID 199 Energy consumption estimation in last-mile electric vehicle routing with multi-factor modeling**

Alexandre Duarte, Department of Production Engineering, Escola Politécnica da Universidade de São Paulo, São Paulo, SP, Brazil

**ID 379 Enhancing Cervical Cancer Outcome Predictions: A Comparative Analysis of Hybrid Statistical and Machine Learning Models Using Clinical and Genomic Data**

Meluleki Sibindi, Department of Informatics, National University of Science and Technology, Bulawayo, Zimbabwe

**ID 380 Enhancing Cervical Cancer Outcome Predictions: A Comparative Analysis of Hybrid Statistical and Machine Learning Models Using Clinical and Genomic Data**

Meluleki Sibindi, Department of Informatics, National University of Science and Technology, Bulawayo, Zimbabwe

**ID 436 Improving Military Facility Energy Efficiency Through Preliminary Audit and Conservation Strategies**

Jovie Latade-Viloan, Graduate Programs, Master of Engineering, Major in Electrical Engineering, Technological Institute of the Philippines, Quezon City, Philippines  
Jaypy Tenerife, Industrial Engineering Department, Technological Institute of the Philippines, Quezon City, Philippines  
Ferdinand Milan, Electrical Engineering Department, Technological Institute of the Philippines, Quezon City, Philippines

## Doctoral Dissertation Competition sponsored by Airbus

**ID 430 Specificities and Lessons Learned from Operational Excellence in the Moroccan Automotive Context**

Mohammed Hamoumi, Mariam Benhadou and Abdellah Haddout, Industrial Management and Plastics Forming Technology Team, Mechanics, Engineering and Innovation Laboratory, LM2I, National High School of Electricity and Mechanics –ENSEM- Hassan II University, Casablanca, Morocco

## Poster Competition

**ID 404 Safety Climate Assessment in the Aviation Industry in Kuwait**

Nashmi Aldhafeeri, Abdulla AlBuloushi, Abdulaziz Alenezi, Abdulmohsen Alharbi, and Suat Kasap, College of Engineering and Technology, American University of the Middle East, Kuwait

## July 3, 2025 (Thursday)

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**July 3, 2025 (Thursday) – Session: 8:00 – 9:30 am**

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8:00 – 9:40 am, THURSDAY, July 3

Onsite Room 2

Session Chair: Xuan Zhao, Wilfrid Laurier University, Canada

## Business Management and Operations Management

**ID 309 Transshipment with Overconfidence**

Xuan Zhao, Wilfrid Laurier University, Canada

**ID 227 Assessing the Interaction between Artificial Intelligence and Carbon Emissions based on the Case of China**

Zhen Xu, PhD Student, IESEG School of Management, CNRS, Université de Lille, Lille, France

Linda Zhang, IESEG School of Management, CNRS, Université de Lille, Lille, France

**ID 233 Optimization of bus dispatching in public transportation through a heuristic approach based on passenger demand forecasting**

Javier Esteban Barrera Hernandez, MSc Student, Dept. Of Industrial Engineering, Los Andes University, Bogota, Colombia

Luis Enrique Tarazona Torres, PhD Student, Dept. Of Industrial Engineering, Los Andes University, Bogota, Colombia

Alejandra Tabares, Assistant Professor, Dept. Of Industrial Engineering, Los Andes University, Bogota, Colombia

David Álvarez-Martínez, Associate Professor, Dept. Of Industrial Engineering, Los Andes University, Bogota, Colombia

**ID 251 Service Level-Constrained Multi-Period Inventory Management: Distribution-Free Solutions and Performance Bounds**

Yun Zhou, Mc Master University, Canada

**ID 260 Remanufacturing Strategies of a Domestic OEM and a Multinational Remanufacturer under Policy Interventions and FDI-induced Technology Spillovers**

Nannan WANG, PhD Student, IESEG School of Management, Univ. Lille, CNRS, UMR 9221 - LEM- Lille Economie Management, Lille, France

Linda Zhang, Dept. Of Operations Management, IESEG School of Management, Lille, France

**ID 271 Focusing on the Future: Role of Operational & Financial Slack**

Divyansh Tripathi, PhD Student, Indian Institute of Management Udaipur, India

Sreejith Kumar Krishnakumar, Operations Management, Quantitative Methods and Information Systems Area, Indian Institute of Management Udaipur, India

8:00 – 9:45 am, THURSDAY, July 3

Onsite Room 3

Session Chair: Sara S Grobbelaar, Department of Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa

## Entrepreneurship and Innovation

**ID 150 Developing a Methodology for Communities of Expert Facilitators on an Online Platform**

Annika Bastian, Ferdinand Zimmermann, Christoph Kempf and Albert Albers, IPEK – Institute of Product Engineering, Karlsruhe University of Technology (KIT), Karlsruhe, Germany

**ID 151 Implementation and Evaluation of the Cultural Synergy Spectrum Method in a Real Case Scenario**

Annika Bastian and Albert Albers, Institute of Product Engineering (IPEK), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

**ID 215 Success and failure factors of MSMEs to strengthen operational management**

Julián David González Zapata, Department of Industrial and Systems Engineering, Universidad Nacional de Colombia, Bogotá D.C. Colombia

Bertha Viviana Ruales Guzmán, Institute of Food Science and Technology, Universidad Nacional de Colombia, Bogotá D.C. Colombia

**ID 218 Systems Thinking Innovation Dynamic Framework to Analyze the Progression of Innovation Systems**

Michelle Smit, Department of Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa

Sara S Grobbelaar, Department of Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa

and DSI-NRF, Centre of Excellence, Scientometrics and Science, Technology, and Innovation Policy (SciSTIP), South Africa

**ID 266 Bridging Multiple Valleys of Death in Medical Device Innovation: A Matrix-Based Decision-Support Framework**

Koert Rudolph Kritzing, Department of Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa

Sara S Grobbelaar, Department of Industrial Engineering, Stellenbosch University, and DSI-NRF, Centre of Excellence, Scientometrics and Science, Technology, and Innovation Policy (SciSTIP), Stellenbosch, South Africa

Faatiema Salie, Department of Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa

Michelle Smit, Department of Industrial Engineering, Stellenbosch University, Stellenbosch, South Africa

**ID 391 Success of Business Incubators to Promote Entrepreneurial Practices in UAE**

Maqsood Sandhu, Department of Marketing and Entrepreneurship, College of Business and Economics, United Arab Emirates University, Al Ain, UAE

8:00 – 9:45 am, THURSDAY, July 3

Onsite Room 4

Session Chair: Masoud Fakhimi, Surrey Business School, University of Surrey, Guildford, UK

## Sustainability, Green Systems and Energy

**ID 285 Modelling and Sustainability Assessment of Biocomposites Supply Chain Networks Using Bayesian Belief Networks: A Case Study on Hemp-based Pellet Production**

Niloofer Akbarian-Saravi, Bryn Crawford, Iman Jalilvand and Abbas S. Milani, Materials and Manufacturing Research Institute (MMRI), School of Engineering, University of British Columbia, Kelowna, Canada  
 Taraneh Sowlati, Industrial Engineering Research Group, Department of Wood Science, University of British Columbia, Vancouver, Canada

**ID 301 Sustainable Flying Behavior: Green Economy Class, Sustainable Aviation Fuel, Offsetting, or Taking the Train?**

Wissam Ouardi and Stanislav Chankov, Constructor University, Bremen, Germany

**ID 342 Enhancing Sustainability through Collaboration: A 2TL-DAD Assessment Framework for Sustainable Agri-Food Models**

Deniz Uztürk, Department of Business Administration, Business Research Center, Galatasaray University, Beşiktaş, İstanbul, Türkiye  
 Gülçin Büyükoğkan, Department of Industrial Engineering, Galatasaray University, Beşiktaş, İstanbul, Türkiye

**ID 352 A Systems Modelling Approach to Sustainability: From Qualitative Insight to Simulation**

Masoud Fakhimi, Surrey Business School, University of Surrey, Guildford, UK  
 Navonil Mustafee, Centre for Modelling, Simulation and Analytics (CSAM), University of Exeter Business School, Exeter, UK

**ID 355 A Hybrid Cost-Optimized Maintenance Strategy for Solar-Wind Systems Using Cox Proportional Hazards and Artificial Neural Networks**

Aminu Tijjani, PhD student, Université de Lorraine, LGIPM, Metz 57000, France  
 Aime Nyoungue, Université de Lorraine, LGIPM, Metz 57000, France  
 Zied Hajej, Université de Lorraine, LGIPM, Metz 57000, France  
 Akilu Yunusa-Kaltungo, Mechanical and Aeronautic Engineering, University of Manchester, Manchester, UK

**ID 360 Greening SMEs in a Warming World: Leveraging Innovation and Sustainable Practices for Resilient Business Performance**

Divine Q. Agozie, University of Ghana, Ghana

**ID 370 A Decision Support System for Transportation Risk Mitigation**

Divya Choudhary, Assistant Professor, Operations Management, Indian Institute of Management Lucknow, Lucknow, India

**8:00 – 9:45 am, THURSDAY, July 3**

**Onsite Room 5**

**Session Chair: Seong-Jun Kim, Industrial and Management Engineering, Gangneung-Wonju National University, Wonju, South Korea**

## Simulation, Optimization and Productivity Improvement

**ID 288 A Fuzzy Logic based Approach to the Mixture Design Using Design of Experiments**

Seong-Jun Kim, Professor, Department of Industrial and Management Engineering, Gangneung-Wonju National University, Wonju, South Korea

**ID 244 Pragmatic Approaches for Identifying and Exploiting Throughput Bottlenecks**

Pedro Costa, DEGEIT, University of Aveiro, Aveiro, Portugal  
 Ana Moura, DEGEIT / GOVCOPP, University of Aveiro, Aveiro, Portugal  
 Galina Robertsons and Tatjana Tambovceva, Faculty of Engineering Economics and Management, Riga Technical University, Riga, Latvia

**ID 252 Improving the Passenger Experience at Sharjah Airport**

Maitha Saeed, Nada Khalil, Anood Saif and Amel Saif, Industrial Engineering Technology Department, Higher Colleges of Technology, UAE  
 Yousef Abu Nahleh, Assistant Professor, Industrial Engineering Technology Department, Higher Colleges of Technology, UAE

**ID 258 Optimizing Retail Workforce Management: Integrating Machine Learning Forecasting with Constraint Programming for Dynamic Shift Planning**

Tarık Küçükdeniz, Assoc. Professor, Dept. Of Industrial Engineering, Istanbul University-Cerrahpaşa, İstanbul, Türkiye  
 Ayşe Paksoy, PhD Student, Dept. Of Industrial Engineering, Istanbul University-Cerrahpaşa, İstanbul, Türkiye  
 İrem Nur İlbaş, MSc Student, Dept. Of Industrial Engineering, Istanbul University-Cerrahpaşa, İstanbul, Türkiye

**ID 300 Total Productive Maintenance (Tpm) Intervention to Enhance the Overall Equipment Effectiveness (Oee) of The Mespack H-180 Series In-Line Liquid Filling Machine**

Cristine Edsa D. Quirante, Gerald Ian Santos and Ike Baguio, Faculty of Industrial Engineering, Cebu Technological University, Philippines

**8:00 – 9:45 am, THURSDAY, July 3**

**Onsite Room 6**

## Faculty Job Interview

**8:00 – 9:45 am, THURSDAY, July 3**

**Zoom Room 7**

**Session Chair: Dr. Mizanur Rahman, IEOM USA**

## Human Factors and Ergonomics Competition

**ID 390 The Effect of Interface Language on Task Completion Time in Visual Search and Content Comprehension: A Comparison of English and Arabic**

Coskun Joe Dizmen, Assistant Professor, College of Engineering and Technology, American University of the Middle East, Kuwait  
 Fatma Alshafei, Dalal Alnoumas, and Deemah Almusaleem, Students of the Bachelor of Science in Industrial Engineering, American University of the Middle East, Kuwait



**ID 202 A Conceptualised Framework of Smart Wearables for Chronic Kidney Disease Management**

John Mulopa, Xolani Moyo and Sibusisiwe Dube, Department of Informatics and Analytics, National University of Science and Technology Bulawayo, Zimbabwe

**ID 262 Minimize the waiting time at the emergency room**

Alya Hassan Almheiri, Shamma Tariq Almahri, Salama Ahmed Alansari, Khawlah Abdullah Ghanem and Amna Abdulla Hassan, Industrial Engineering Technology Department, Higher Colleges of Technology, UAE  
Yousef Abu Nahleh, Assistant Professor, Industrial Engineering Technology Department, Higher Colleges of Technology, UAE

**ID 275 In Bangladesh For Enhancing Productivity in the RMG Industry Through OWAS-Based Ergonomic Risk Assessment**

Md Tahasin Arefin, Graduated, Industrial and Production Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh  
Ahmed Jamil, Graduated, Industrial and Production Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh  
Md. Nurul Absar Chowdhury, Professor, Department of Mechanical and Production Engineering, Ahsanullah University of Science and Technology, Dhaka, Bangladesh

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**July 3, 2025 (Thursday) – Session: 9:40 am – 1:00 pm**

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**Keynote Speakers**

Keynote V: Thursday, July 3, 2025, 9:40 – 10:20 am

**Dr. Farouk Yalaoui**

Senior Director (Vice President) for Research  
Full Professor  
University of Technology of Troyes (UTT)  
Troyes, France

Keynote VI: Thursday, July 3, 2025, 10:20 – 11:00 am

**Dr. Guoqing Zhang**

Professor  
Department of Mechanical, Automotive and Materials Engineering  
Faculty of Engineering  
University of Windsor, Canada

Keynote VII: Thursday, July 3, 2025, 11:00 – 11:40 am

**Dr. Petri Helo**

Professor of Industrial Management, Logistics Systems  
Head of Networked Value Systems Research Group  
School of Technology and Innovations  
University of Vaasa  
Finland

Keynote VIII: Thursday, July 3, 2025, 11:40 am – 12:20 pm

**Dr. Min Xie**

Chair Professor, Department of Systems Engineering  
Chair Professor, Affiliate, Department of Data Science  
City University of Hong Kong  
Kowloon, Hong Kong, PRC

Keynote IX: Thursday, July 3, 2025, 12:20 – 1:00 pm

**Romain BRUNIAUX, Ph.D.**

Valeo Group Industrial Vice-President  
Power Division Industrial Vice-President  
Paris, France

*Presentation Title: Data Science and Artificial Intelligence in Valeo's Factories*

1:00 Buffet Lunch

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## July 3, 2025 (Thursday) – Session: 2:00 – 3:45 pm

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**2:00 – 3:45, THURSDAY, July 3**

**Onsite Room 2**

### Panel on Global Supply Chain and Logistics

Panel Chair

Pervaiz Akhtar, PhD  
Chair (Full Professor) in Business Analytics, Big Data & Supply Chains  
Director of MBA Programmes  
University of Aberdeen, UK

Panel Speaker I

Dr. Mira Chitt  
Head of Mechanical Engineering Department and Engineering Management  
Associate Professor of Mechanical Engineering  
Global College of Engineering and Technology  
Muscat, Oman

Panel Speaker II

Dr. Guoqing Zhang  
Professor, Department of Mechanical, Automotive and Materials Engineering  
Faculty of Engineering  
University of Windsor, Canada

Panel Speaker III

Dr. Petri Helo  
Professor of Industrial Management, Logistics Systems  
Head of Networked Value Systems Research Group  
School of Technology and Innovations  
University of Vaasa, Finland

Panel Speaker IV

Surajit Bag, PhD  
Full Professor  
Department of Supply Chain, Purchasing and Project Management  
CERIIM – Centre de Recherche en Intelligence et Innovation Managériales  
La Rochelle Cedex 1, France

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**2:00 – 3:30, THURSDAY, July 3**

**Onsite Room 3**

**Session Chair: Kadir Ertogral, Assoc. Professor, Department of Mechanical and Industrial Engineering, Qatar University, Doha, Qatar**

### Engineering Management and Project Management

**ID 217 Comparative Evaluation of Innovation Process Models – Guide for Practical Application**

Johannes Müller, Ann-Kathrin Müller and Albert Albers, Institute of Product Engineering, Karlsruhe Institute of Technology, Kaiserstr., Karlsruhe, Germany

**ID 250 A generic approach for managing uncertainty in execution of large and complex projects: Generic Agile Project Management (GAPM)**

Homayoun Khamooshi, The George Washington University, United States

**ID 255 Insights into System Evolution from a Cross-Case Analysis Using the Model of SGE - System Generation Engineering**

Albert Albers, Felix Pfaff and Tobias Düser, IPEK – Institute of Product Engineering, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

**ID 267 Validation of an Approach to Determine Individual Target Levels of Agility in Product Development**

Moritz Schoeck, Gabriel Moser, Johannes Mueller, Albert Albers and Tobias Dueser, IPEK – Institute of Product Engineering, Karlsruhe Institute of Technology (KIT), Kaiserstr. 12, D-76131 Karlsruhe, Germany

**ID 311 Case Study: Systematic Approach to Derive Needs Based on Future Scenarios and Personas in the Project C2CBridge**

Carsten Thümmel, Christoph Kempf, Manuel Wei Spekker, Stefan Eric Schwarz, Tobias Düser and Albert Albers, Institute of Product Engineering (IPEK), Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

**ID 373 Sustainable Benefits of Quality Management (Qm) Application on Products and Services Delivery in South African Manufacturing Industry**

Festus Uche Uwadia, Dr. Emmanuel Innocents Edoun, Prof. Anup Pradhan and Prof. Charles Mbohwa, Faculty of Engineering and Built Environment, Department of Quality & Operation Management, University of Johannesburg, South Africa, 55 Beit St, Doornfontein, Johannesburg, 2028, South Africa

**ID 382 Analysis of the performance and the behavior of Bass diffusion model in forecasting demand for fashion goods: A case study**

Kadir Ertogral, Assoc. Professor, Department of Mechanical and Industrial Engineering, Qatar University, Doha, Qatar  
Abdurrahman Yavuz, Department of Industrial Engineering, University of Miami, Coral Gables, FL, USA

**2:00 – 3:30, THURSDAY, July 3**

**Onsite Room 4**

**Session Chair:** Adel Elomri Hamad Bin Khalifa University, Qatar Foundation, Doha, Qatar

## Supply Chain and Logistics

**ID 195 Optimizing the Distribution of Perishable Goods through a Metaheuristic Approach**

Bahare Askarian and Suchithra Rajendran, Department of Industrial and Systems Engineering, University of Missouri, United States

**ID 196 A Two-Stage Robust Optimization Approach for Prepositioning Logistics Items in Disaster Management**

Levent Eriskin, Department of Industrial Engineering, Piri Reis University, Istanbul, 34940, Turkey  
Mumtaz Karatas, Biomedical, Industrial and Human Factors Engineering Department, Wright State University, Dayton, OH, 45435, USA

**ID 197 Optimization of Electric Vehicle Charging Infrastructure: A Case Study in Jordan**

Nader A. Al Theeb, Associate Professor of Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Jordan University of Science and Technology, Irbid, Jordan  
Suliman Al Asmar and Abdallah Batayneh, Department of Industrial Engineering, Faculty of Engineering, Jordan University of Science and Technology, Irbid, Jordan

**ID 220 A Digital Twin for Air Cargo Ground Operations: Connecting the Real with the Virtual**

Jenny Tonka and Michaël Schyns, Center for Quantitative Methods and Operations Management, HEC Liège - Management School of the University of Liège, Liège, Belgium

**ID 198 Comparative Analysis of Machine Learning Models for Predicting Energy Consumption on Last-Mile BEV Routes**

Alexandre Duarte and Hugo Tsugunobu Yoshida Yoshizaki, Department of Production Engineering, Escola Politécnica da Universidade de São Paulo, São Paulo, SP, Brazil

**2:00 – 3:30, THURSDAY, July 3**

**Onsite Room 5**

**Session Chair:** Zulfiqar Ali, British Columbia Institute of Technology (BCIT), Burnaby, BC, Canada

## Engineering Education and Curriculum Improvement

**ID 229 Investigating the Effect of Pipe Material Stiffness in Water Leakage through Longitudinal Cracks in Pressurized Pipes: An Experimental and Numerical Analysis to Reduce Non-Revenue Water**

Didier Ilunga, PhD Student and Senior Pipeline Engineer, Dept. Of Pipeline Asset Management, Rand Water, Johannesburg, South Africa  
Dinka Mergesa and Daniel Madyira, Dept. Of Civil Engineering Science/Dept. Mechanical Engineering, University of Johannesburg, South Africa

**ID 237 Engineering a Secure Audit Framework for AI-Integrated Digital Education**

Thiru pandian, University of texas at Dallas, United States

**ID 354 Transforming Indonesia Drilling Training Center – Pertamina Drilling Services Indonesia as One of Biggest Drilling Training Center in South East Asia: Implementation of MINDCRAFT to Drive Revenue and Competency Development**

Ng Willam Wijaya, Chair Rony, Muhammad Iqbal Shahputra, Hilman Himawan, Ardian Aminuddin, Aktrilianjas Ulpa, Minar Prianto and Dora Indah, Pertamina Drilling Services Indonesia, Subholding Upstream, Pertamina, Jakarta

**ID 385 AI Design Analysis for Diploma Education in Canada**

Zulfiqar Ali, Faculty Member, Department of Computer Information System Administration (CISA), British Columbia Institute of Technology (BCIT), Burnaby, BC, Canada

**ID 400 Evaluating the Influence of SDG Educational Practices on the CIT-U Industrial Engineering Graduates' Commitment to Sustainable Industrial Development**

Monique Ann G. Obiedo, Cheradee Ann M. Cabanlit, Evangeline C. Evangelista and Ella Marie Y. Barrioquinto, Department of Industrial Engineering, Cebu Institute of Technology – University, Philippines

**2:00 – 6:00, THURSDAY, July 3**

**Onsite Room 6**

**Six Sigma Workshop**  
Dr. Ahad Ali  
Lawrence Technological University  
Michigan, USA

**2:00 – 3:30, THURSDAY, July 3**

**Zoom Room 7**

**Session Chair: Dr. Nazrul Islam, IEOM Canada**

**Artificial Intelligence and Data Science**

**ID 178 AI and IoT in Early Detection of Frogeye Leaf Spot Disease in Soybean: A Systematic Literature Review**

Passmore Vareta, Melusi Moyo and Sibusisiwe Dube, Department of Informatics and Analytics, National University of Science and Technology, Bulawayo, Zimbabwe

Sinokubekezela P. Dube, School of Engineering, The University of Zambia, Lusaka, Zambia

**ID 203 Ensuring Data Privacy in AI-Driven Educational Platforms: A Systematic Literature review**

Banele Mpande, Tiese Chazuza, Thembelihle Siwela, Musawenkosi Moyo and Sibusisiwe Dube, Department of Informatics and Analytics National University of Science of Technology, Bulawayo, Zimbabwe

**ID 249 A comprehensive review of artificial intelligence, deep learning, and machine learning in facilitating deaf and non-verbal communication**

Maryrose Muchemwa, Part 5 Biomedical Engineering Student, University of Zimbabwe, Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, Mt Pleasant, Harare, Zimbabwe

Muscline Ganda, Research Scientist, Food and Biomedical Technology Institute, Scientific and Industrial Research and Development Centre (SIRDC), Harare, Zimbabwe

Farahd Amos, Medical Doctor and Lecturer, University of Zimbabwe, Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, Mt Pleasant, Harare, Zimbabwe

Tawanda Mushiri, Executive Director Technical and Professor of Artificial Intelligence, Scientific and Industrial Research and Development Centre (SIRDC), Harare, Zimbabwe

Research Fellow, University of South Africa, College of Science, Engineering and Technology, Florida Park, Roodepoort, South Africa

Charles Mbohwa, Distinguished Professor, University of South Africa, College of Science, Engineering and Technology, Roodepoort, South Africa

**ID 307 Oral Cancer Detection using Computational Intelligence: A Systematic Review**

Sangeeta Giri, Unitedworld Institute of Technology, Karnavati University, Gandhinagar, Gujarat, India

Manivel Kandasamy, Unitedworld Institute of Technology, Karnavati University, Gandhinagar, Gujarat, India

Yash Sanjay Gaur, Unitedworld Institute of Technology, Karnavati University, Gandhinagar, Gujarat, India

**ID 384 A Decision Support System with ANN Algorithm for Health Systems Evaluation**

Yigit Yeni, Halenur Buber, Eren Beytekin, Pinar Elverdi and Dr. Ozgur Erol, Faculty of Engineering and Natural Sciences, Department of Industrial Engineering, Istanbul Medipol University, Istanbul, Turkey

**ID 395 The monitoring and control model of agricultural products in the harvesting process utilises artificial intelligence**

Victor Martin Maldonado Benitez, ESIME Zacatenco, Instituto Politécnico Nacional, Mexico City, Mexico

Gabriela Guadalupe Escobedo Guerrero, ESCA Santo Tomás, Instituto Politécnico Nacional, Mexico City, Mexico

Luis Carrillo Torres, ESCA Santo Tomás, Instituto Politécnico Nacional, Mexico City, Mexico

**ID 413 Testing a Multi-Model Artificial Intelligence System to Detect Ransomware Activity**

Alexander Veach and Munther Abualkibash, School of Information Security and Applied Computing, Eastern Michigan University, Ypsilanti, MI, USA

**ID 434 A Structural Path Analysis of Employee Perceptions on Artificial Intelligence Integration at Work**

Gerald O. Semifranja, Technological Institute of the Philippines, Asian Institute of Management, Quezon City, Philippines

Jaypy T. Tenerife, Industrial Engineering Department, Technological Institute of the Philippines, Quezon City, Philippines

**July 3, 2025 (Thursday) – Session: 4:00 – 5:45 pm**

**4:00 – 6:00, THURSDAY, July 3**

**Onsite Room 2**

**Ph.D. Workshop**

**Chair**

Dr. Linda ZHANG  
Professor of Operations Management  
IESEG School of Management



Paris La Defense, France

### Speakers

Dr. Roel Leus  
Professor of Operations Research  
KU Leuven  
Leuven, Belgium

Dr. Jianxin (Roger) Jiao  
Associate Professor of Enterprise Systems Engineering  
G.W. Woodruff School of Mechanical Engineering  
Georgia Institute of Technology  
Atlanta, GA, USA

Dr. Petri Helo  
Professor of Industrial Management  
Head of Networked Value Systems Research Group  
School of Technology and Innovations  
University of Vaasa  
Finland

Dr. George Q. Huang  
Chair Professor of Smart Manufacturing  
Director of Research Institute for Advanced Manufacturing  
Department of Industrial and Systems Engineering  
The Hong Kong Polytechnic University  
Hung Hom, Kowloon, Hong Kong

**4:00 – 6:00, THURSDAY, July 3**

**Onsite Room 3**

**Session Chair: Indra Gunawan, Adelaide Business School, The University of Adelaide, Adelaide, SA 5005, Australia**

## Digital Manufacturing, Industry 4.0 and IoT

**ID 162 On Time, Every Time: Integrating Autonomous Vehicles in Food Delivery**

Ganesh Janakiraman, Soraya Fatehi, and Neda Mirzaei, Jindal School of Management, University of Texas at Dallas, United States

**ID 160 Enhancing Hazmat Logistics Safety through IoT: A Practical Study Focused on Oman**

Ali al Kalbani, Lecturer, College of Economics and Business Administration, University of Technology and Applied Sciences, AlMussana, Sultanate of Oman

**ID Analysis of Dynamic Capabilities for Digital Transformation in the Construction Industry**

Navodi Wijayarathne, Indra Gunawan and Frank Schultmann, Adelaide Business School, The University of Adelaide, Adelaide, SA 5005, Australia

**ID 200 Digital Twin Technology for Hospital Bed Management: Data-Driven Comparative Optimization Study**

Majed Hadid, Regina Padmanabhan, Adel Elomri and Laoucine Kerbache, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar  
Abdelfatteh El Omri and Omar M Aboumarzouk, Surgical Research Section, Department of Surgery, Hamad Medical Corporation, Doha, Qatar

**ID 378 Integrating External APIs Into Unity: Methods and Applications**

Francesca Giuliani and Leonardo Frizziero, Department of Industrial Engineering, Drawings and Methods, Università degli Studi di Bologna  
Bologna, Italy  
Andrea Dettratti, IT Department Bonfiglioli Spa, Bologna, Italia

**ID 387 Towards a Function-based Module Variant Management: an Automotive Case Study**

Jun Lee, Junyeol Ryu and Yoo Suk Hong, Department of Industrial Engineering and Institute for Industrial Systems Innovation, Seoul National University, Seoul, 08826, South Korea

**4:00 – 6:00, THURSDAY, July 3**

**Onsite Room 4**

**Session Chair: Bethany R. Lowndes, University of Nebraska Medical Center, Innovation Design Unit, Nebraska Medicine, Omaha, NE, USA**

## Human Factors, Ergonomics and Healthcare

**ID 280 Patient Acuity and Hospital Rooming: Initial Assessment of Acuity-Based Placement on a Medical Surgical Unit**

Bethany R. Lowndes, College of Medicine, Department of Neurological Sciences, University of Nebraska Medical Center, Innovation Design Unit, Nebraska Medicine, Omaha, NE 68198, USA  
Breanna Hetland, College of Nursing, Omaha Division, University of Nebraska Medical Center, Innovation Design Unit, Nebraska Medicine, Omaha, NE 68198, USA  
Meghan Mendick, Innovation Design Unit, Nebraska Medicine, Omaha, NE 68105, USA

**ID 359 Enhancing Road Safety Through Tire Specification Awareness: An Empirical Study Among Commercial Drivers in Ghana**

John K. Buor, OMIS Department, UGBS, Ghana  
Mark Ofori Poku Adomako, OMIS Department, UGBS, Ghana

**ID 445 Driver Performance Analysis: Posture and Ergonomic Impact**

Saed Talib Amer, Abdulrahman Saleh Al Hashmi, and Mariam Ali Abdulla Alhammadi, Department of Management Science and Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE

**ID 446 The Impact of Plants on Indoor Air Quality and Health Effects**

Abdulrahman Saleh Al Hashmi, Mariam Ali Abdulla Alhammadi and Saed Talib Amer, Department of Management Science and Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE

**ID 447 Evaluating HSE Culture in the Oil and Gas Industry: A Comprehensive Assessment**

Abdulrahman Saleh Al Hashmi, Mariam Ali Abdulla Alhammadi and Saed Talib Amer, Department of Management Science and Engineering Faculty of Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE

## Business Management and Operations Management

**Session Chair:** Tina Arabian, Bissett School of Business, Mount Royal University, Calgary, Canada

**ID 372 Impact of Quality Management (Qm) on Product and Service Delivery in South African Manufacturing Industry**

Festus Uche Uwadia, Dr. Emmanuel Innocents Edoun, Prof. Anup Pradhan and Prof. Charles Mbohwa, Faculty of Engineering and Built Environment, Department of Quality & Operation Management, University of Johannesburg, Doornfontein, Johannesburg, South Africa

**ID 399 Leveraging Upgradable Product Design as a Circular Strategy under Servicizing**

Tina Arabian, Assistant Professor of Supply Chain Management, Department of International Business and Supply Chain Management Bissett School of Business, Mount Royal University, Calgary, Canada

D. Marc Kilgour, Professor of Mathematics, Department of Mathematics, Wilfrid Laurier University, Waterloo, Ontario, Canada

Hamid Noori, Laurier Chair Professor in Enterprise Integration and Technology Management; Academic Director, Lazaridis Institute for the Management of Technology Enterprises, Lazaridis School of Business and Economics, Wilfrid Laurier University, Waterloo, Ontario, Canada

**4:00 – 6:00, THURSDAY, July 3**

**Onsite Room 5**

**Session Chair:** Dr. Hajej Zied, Associate Professor, University of Lorraine, Metz, France

## AI-ML Competition

**ID 374 A Hybrid Cost-Optimized Maintenance Strategy for Solar-Wind Systems Using Cox Proportional Hazards and Artificial Neural Networks**

Aminu Tijjani, PhD student, Universite de Lorraine, LGIPM, Metz 57000, France

Aime Nyongue, Universite de Lorraine, LGIPM, Metz 57000, France

Zied Hajej, Universite de Lorraine, LGIPM, Metz 57000, France

Akilu Yunusa-Kaltungo, Mechanical and Aeronautic Engineering, University of Manchester, Manchester, UK

**ID 433 Bundling or Discounting - Field Experiments for Healthy and Unhealthy Food**

Nymisha Bandi, McGill University, Canada

## Artificial Intelligence and Data Science

**ID 357 Leveraging AI Technologies for Road Conditions Assessment A Multiple Regression and Structural Equation Model Approach**

Victor Rambau and Thomas Thinandavha Munyai, Dept. of Operations Management, Tshwane University of Technology, Pretoria, South Africa  
Olasumbo Makinde, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

**ID 398 Optimization Technique of the Philippine Army Warehousing and Inventory System (PAWIS) Using Cloud and Edge Computing: Development of a Strategic Framework for All Units**

Cherry D. Casuat, Arvin R. De La Cruz, Joshua Benjamin B. Rodriguez, Jan Reuelle P. Teña, Joselinda M. Golpeo and Guillermo O. Bernabe Faculty, College of Engineering, Polytechnic University of the Philippines, Sta Mesa, Manila

**2:00 – 6:00, THURSDAY, July 3**

**Onsite Room 6**

## Continuation of Six Sigma Workshop

Dr. Ahad Ali, Lawrence Technological University, Michigan, USA

**4:00 – 6:00, THURSDAY, July 3**

**Zoom Room 7**

**Session Chairs:** Sipedeh Abolghasem, California State University Northridge, Northridge, California, USA and Dr. Nazrul, IEOM Canada

## Graduate Student Paper Competition sponsored by Eaton

**ID 469 Smart Robotic Manufacturing Operations with Adaptive Task Planning: A GPT-Augmented Multi-Channel Ensemble Learning with Situational Awareness**

Yiyun Fei, Mulang Song, and Roger J. Jiao, School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA, USA

## Lean Six Sigma and Operations Excellence

### ID 286 Improving the Rate of Patient No Show to The Klotz Student Health Center at California State University Northridge

Christopher Villalpando, Lina Gurgonian, and Charity Custance, Graduate Students, Dept. of Manufacturing Systems Engineering and Management, California State University, Northridge, California, USA

Sipede Abolghasem, Professor, Dept. of Manufacturing Systems Engineering and Management, California State University, Northridge, CA, USA

### ID 315 Reducing Bottle Height Variation to Enhance Quality, Operational Efficiency, and Revenue

Akash Anil Toradmal, Chirag Chandrakant Poshirkar, Chhayank Pravin Bhirud, and Sepideh Abolghasem, Ph.D., Associate Professor, Department of Manufacturing Systems Engineering and Management, California State University, Northridge, United States

### ID 350 Reducing Bottle Height Variation to Enhance Quality, Operational Efficiency, and Revenue

Akash Anil Toradmal, Chirag Chandrakant Poshirkar, Chhayank Pravin Bhirud and Sepideh Abolghasem, Department of Manufacturing Systems Engineering and Management, California State University Northridge, Northridge, United States

### ID 344 Adaptive Production Strategies in an Era of Tariff Uncertainty

Bharat Srivastava, Marquette University, United States

### ID 363 Reduction of Threading Defects in Shaft Manufacturing Using Six Sigma DMAIC Methodology

Shahbaz Ansari, Manufacturing Systems Engineering and Engineering Management California State University of Northridge, United States

Nikhil Naik, Manufacturing Systems Engineering and Engineering Management California State University of Northridge, United States

Piyush Kasbe, Manufacturing Systems Engineering and Engineering Management California State University of Northridge, United States

Sepideh Abolghasem, Associate Professor of Manufacturing Systems Engineering and Management, California State University of Northridge, USA

### ID 407 Streamlining Supplier Evaluation through Automation: A Lean Six Sigma Approach for Cutting Processing Time

Rokia Elshahhat, Joud Abuobid, and Muhammad Imran, Department of Mechanical and Industrial Engineering, Rochester Institute of Technology Dubai, United Arab Emirates

### ID 412 Service Management Model Based on Lean Service Tools and Ergonomic Design to Increase the Productivity of Cleaning Operations in a Food Court

Michela Alejandra Quintana-Rodriguez and Christina Liesl Ascencio-Ramirez, From the Faculty of Engineering, Universidad de Lima, Lima, Perú

Richard Meza Ortiz, Faculty of Industrial Engineering Professor, School of Industrial Engineering Member, Operations Management and Green Logistics Research Group, Universidad de Lima, Lima, Perú

### ID 435 Risk Analysis of Wind Turbine Using Machine Learning and AI

Dharmik Parekh, Department of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University, Gandhinagar, India

M.B. Kiran, Associate Professor, Dept. of Mechanical Engineering, School of Technology, Pandit Deendayal Energy University, Gandhinagar, India

## July 4, 2025 (Friday)

### July 4, 2025 (Friday) – Session: 8:00 – 9:30 am

8:00 – 9:30, FRIDAY, July 4

Onsite Room 2

Session Chair: Hannelie Nel, University of Pretoria, South Africa

### Case Studies and Best Practices

#### ID 166 Framework for New Product Development in a Research and Development Manufacturing Environment

Koogan Kistan, Department of Engineering and Technology Management, Faculty of Engineering and the Built Environment, University of Pretoria, Pretoria, South Africa

Hannelie Nel, Associate Professor in Engineering Management, Department of Engineering and Technology Management, Faculty of Engineering and the Built Environment, University of Pretoria, Pretoria, South Africa

Antonie de Klerk, Associate Professor in Engineering Management, Department of Engineering and Technology Management, Faculty of Engineering and the Built Environment, University of Pretoria, Pretoria, South Africa

#### ID 276 The Feasibility of Implementing Cost Reduction Strategies for Green Hydrogen Production in Oman

Hamood Al Hajri and Mira Chitt, Mechanical Engineering Department, Global College of Engineering and Technology, Muscat, Oman

#### ID 312 The Critical Successful Factors of Handmade Goods to Attract Consumer's Intention to Purchase-A Case Study of Clay Molding

Cecilia María Angélica Jara Báez, Industrial Engineering, Taiwan-Paraguay Polytechnic University, Paraguay

Industrial Management, National Taiwan University of Science of Technology, Taiwan

Su-Hua Ku, Business Administration, Chung Yuan Christian University, Taiwan

Yanina Luján Guillén Gómez, Industrial Engineering, Taiwan-Paraguay Polytechnic University, Paraguay

Industrial Management, National Taiwan University of Science of Technology, Taiwan

Yueh-Ling Chen, Industrial Engineering, Taiwan-Paraguay Polytechnic University, Paraguay

Industrial Management, National Taiwan University of Science of Technology, Taiwan

Shih-Hsien Tseng, National Taiwan University of Science and Technology, Taiwan

8:00 – 9:30, FRIDAY, July 4

Onsite Room 3

Session Chair: Guoqing Zhang, University of Windsor, Windsor, Ontario, Canada

## Supply Chain and Logistics

### ID 308 Enhancing Tire Recycling Supply Chains for Sustainable Waste Management: Insights from a Data-Driven Optimization Study

Abdullah Riad, Majed Hadid and Regina Padmanabhan, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar Foundation Doha, Qatar  
 Mohammed Matar, Bright Future Tyre Recycling Factory, Doha, Qatar  
 Adel Elomri, Laoucine Kerbache, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar Foundation Doha, Qatar

### ID 340 Learning from the sparse and uncertain: adaptive life cycle curve prediction via dynamic fusion

Xin Li, PhD student, School of Economics and Management, Fuzhou University, Fuzhou, China  
 Quan Cheng, School of Economics and Management, Fuzhou University, Fuzhou, China  
 Xiaoli Su, School of Economics and Management, Fuzhou University, Fuzhou, China  
 Chenghu Yang, School of Economics and Management, Fuzhou University, Fuzhou, China  
 Jie Xiong, Department of Strategy, Entrepreneurship and International Business, ESSCA School of Management, France  
 Yuan Zhe, De Vinci Higher Education, De Vinci Research Center, Paris, France  
 De Vinci Research Center, France

### ID 341 Harnessing Artificial Intelligence for Strategic Procurement: Enhancing Efficiency, Transparency, and Decision-Making

Jouhara al Habsi and Ali al Kalbani, College of Economics and Business Administration, University of Technology and Applied Sciences, Al-Musannah, Oman

### ID 345 Smart Supply Network Optimization: OR and AI Perspectives

Guoqing Zhang, Supply Chain Management and Logistics Optimization Research Center, Department of Mechanical, Automotive & Materials Engineering, University of Windsor, Windsor, Ontario, Canada

8:00 – 9:30, FRIDAY, July 4

Onsite Room 4

Session Chair: Nita Sukdeo, Department of Quality and Operations Management, University of Johannesburg, South Africa

## Digital Manufacturing, Industry 4.0 and IoT

### ID 281 Toward a Secure and Scalable Vaccine Supply Chain: A Systematic Literature Review of Blockchain, IoT, and Cryptographic Frameworks

Mohammed EL Amine Benyelles, Département de Génie Industriel, Université de Tlemcen, Algérie  
 Lamia Triqui, Département de Génie Industriel, Université de Tlemcen, Algérie  
 Mohammed Dahane, Université de Lorraine, LGIPM, F-57000 Metz, France

### ID 334 Evolving competencies and methodological preferences in IT project management: An industry 4.0 perspective

XI Ngcana, Master's student, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa  
 BBS Makhanya, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa  
 JHC Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

8:00 – 9:30, FRIDAY, July 4

Onsite Room 5

## Faculty Job Interview

8:00 – 9:30, FRIDAY, July 4

Zoom Room 7

Session Chairs: BBS Makhanya, University of Johannesburg, South Africa and Dr. Mizanur Rahman, IEOM Australia

## Industry 4.0, Automation, IoT and Reliability

### ID 179 Precision Agriculture: A Systematic Literature Review

Blessing Maninga, Tinashe E. Mbiriri, Angeline Coffee and Ayanda Ncube, Department of Informatics and Analytics, National University of Science and Technology, Bulawayo, Zimbabwe  
 Sinokubekezela P. Dube, School of Engineering, The University of Zambia, Lusaka, Zambia

### ID 243 Vision Based Bottle Classification and Automatic Filling Machine

Dr. N. Bhoopal, Department of Electrical and Electronics Engineering, B V Raju Institute of Technology, Narsapur, India  
 Akkamgari Harsha sri, Department of Electrical and Electronics Engineering, B V Raju Institute of Technology, Narsapur, India  
 Boggula Varun Kumar, Department of Electrical and Electronics Engineering, B V Raju Institute of Technology, Narsapur, India  
 Gaddameedi Amulya, Department of Electrical and Electronics Engineering, B V Raju Institute of Technology, Narsapur, India  
 Akula Sathwik Chandra, Department of Electrical and Electronics Engineering, B V Raju Institute of Technology, Narsapur, India

### ID 335 Reliability of the Electrical Multiple Unit train set Maintenance in a Manufacturing Company

Vulani Charlotte Ngobeni, Master's student, Postgraduate School of Engineering Management, University of Johannesburg, South Africa  
 BBS Makhanya, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa  
 JHC Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa



**ID 377 Optimization of Industrial Operational Systems Within Industry 4.0 In the Automotive Sector**

Hassna Bouhamid, Advanced Systems Engineering Laboratory, The Ecole Nationale des Sciences Appliquées (ENSA), School of Engineering IBN TOFAIL University, Kenitra, Morocco

Bouazaoui Oussama, The Ecole Nationale des Sciences Appliquées (ENSA), School of Engineering, IBN TOFAIL University, Kenitra, Morocco  
Ismail Lagrate, The Ecole Nationale des Sciences Appliquées (ENSA), School of Engineering, IBN TOFAIL University, Kenitra, Morocco

**ID 386 Inspection of Castings Using Vision System**

MB Kiran, Pandit Deendayal Petroleum University, India

**ID 442 Dynamic Resource Optimization in 5G Networks: Integrating Mobile Edge Computing and Network Slicing**

Abdellah Amzil and Mohamed Hanini, Hassan First University of Settat, Faculty of Sciences and Technology, Networks, Mobility and Modeling laboratory, IR2M, Morocco

Abdellah Zaaloul, Mathematical Modeling Laboratory and Economic Calculation (LM2CE), Faculty of Economic and Social Legal Sciences, Hassan First University of Settat, 26000, Morocco

**ID 268 Spreading digital Servitization in the Machinery Industry Sector: Preliminary Results from an Empirical Survey**

Marco Ardolino, Federico Adrodegari, Nicola Sacconi and Laura Scalvini, RISE Research Laboratory, Department of Mechanical and Industrial Engineering, Università degli Studi di Brescia, Italy

Andrea Gozzi, Digital Industries World, Italy

**ID 303 Enhancing Customer Service and Quality in Municipal Water Testing Laboratories through Digital Transformation: A West Rand District Case, South Africa**

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

**ID 302 Assessing and Optimizing Safety Operations in Mining: A Case Study of a South African Mine**

Takunda Marko, Nelson Sizwe Madonsela and Sambil Charles Mukwakungu, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

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**July 4, 2025 (Friday) – Session: 10:00 am – 1:00 pm – Onsite Room A**

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## Keynote Speakers

10:00 – 10:20      Remarks from Conference Chairs

10:20 – 11:00      Keynote X:

**Dr. Jianxin (Roger) Jiao**

Associate Professor of Enterprise Systems Engineering  
G. W. Woodruff School of Mechanical Engineering  
Georgia Institute of Technology  
Atlanta, GA, USA

11:00 – 11:40      Keynote XI:

**Dr. Alexandre Dolgui**

Professor and Head, Automation, Production and Computer Sciences Dept.  
IMT Atlantique, LS2N-CNRS, NANTES Cedex 3, France  
Editor-in-Chief, International Journal of Production Research (IJPR)

11:40 – 12:20      Keynote XII:

**Dr. Bingwen Yan**

Professor and Head of Department, Department of Industrial & Systems Engineering  
Cape Peninsula University of Technology  
Cape Town, South Africa

12:20 – 13:00      Keynote XIII:

**Dr. Thierry Benoist**  
 Founder and CEO  
 Hexaly, Paris, France

1:00 Buffet Lunch

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## July 4, 2025 (Friday) – Session: 2:00 – 3:30 pm

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**2:00 – 3:30, FRIDAY, July 4**

**Onsite Room 2**

### AI in Manufacturing Panel

Panel Chair

Dr. Mira Chitt  
 Head of Mechanical Engineering Department and Engineering Management  
 Associate Professor of Mechanical Engineering  
 Global College of Engineering and Technology  
 Muscat, Oman

Panel Speaker I

Prof. George Q. Huang  
 Chair Professor of Smart Manufacturing  
 Director of Research Institute for Advanced Manufacturing  
 Department of Industrial and Systems Engineering  
 The Hong Kong Polytechnic University  
 Hung Hom, Kowloon, Hong Kong

Panel Speaker II

Dr. Jianxin (Roger) Jiao  
 Associate Professor of Enterprise Systems Engineering  
 G.W. Woodruff School of Mechanical Engineering  
 Georgia Institute of Technology, Atlanta, GA, USA

Panel Speaker III

Alexandre Dolgui, Dr.habil., Ph.D., IISE Fellow  
 Professor and Head, Automation, Production and Computer Sciences Dept.  
 IMT Atlantique, LS2N-CNRS, La Chantrerie, 4, rue Alfred Kastler – B.P. 20722  
 F-44307 NANTES Cedex 3, France  
 Editor-in-Chief, International Journal of Production Research (IJPR)

Panel Speaker IV

Dr. Ali Siadat  
 Full Professor, Laboratoire de Conception, Fabrication Commande  
 Arts et Métier Paris Tech  
 Centre de Metz, France

**2:00 – 3:30, FRIDAY, July 4**

**Onsite Room 3**

**Session Chair: Amir Alwan, Assistant Professor, Lubar College of Business, University of Wisconsin—Milwaukee, USA**

### Business Management and Operations Management

**ID 272 Evaluating the Operational Manageability of Container Terminals with Consideration of Port Handling Processes**

Myeonghwan Kim, Ms Student, Major in Production Management, Department of Business Administration, Changwon National University, Changwon, Republic of Korea  
 Jaehun Park, Major in Production Management, Department of Business Administration, Changwon National University, Changwon, Republic of Korea

**ID 282 Dynamic Control of Multiclass Omnichannel Hybrid Production Systems: Applications to Dynamic Pricing in Restaurants**

Amir Alwan, Assistant Professor, Lubar College of Business, University of Wisconsin—Milwaukee, USA  
 Nasser Barjesteh, Rotman School of Management, University of Toronto, Canada

**ID 299 Integrating Environmental Features for Green Knowledge-Driven Sustainability**

Nosheen Qadeer, Department of Economics and Management, Tomas Bata University, Zlin, Czech Republic  
 Doc. Ing. Jana Matošková, Ph.D., Department of Economics and Management, Tomas Bata University, Zlin, Czech Republic

Muhammad Shoaib, Iqbal, Department of Civil Engineering, Construction and Management Division, National Taiwan University, Taipei Taiwan

**ID 332 Artificial Intelligence in Supply Chain and Operations Management: Driving Global Sustainability and Positive Business Transformation**

Sina Zare, Department of Information Systems and Business Analytics, Loyola Marymount University, Los Angeles, USA

Yasaman Ghasemi, Department of Information Systems and Business Analytics, Loyola Marymount University, Los Angeles, USA

**2:00 – 3:30, FRIDAY, July 4**

**Onsite Room 4**

Session Chair: Gaia Vitranò, Politecnico di Milano, Italy

## Manufacturing, Assembly and Design

**ID 170 Operator Assignment Problem in Multiple Cells Production Systems with Operator Sharing**

Yiyo Kuo and Shih-Chen Chen, Department of Industrial Engineering and Management, Ming Chi University of Technology, New Taipei City, Taiwan

**ID 238 Innovative Closed-Loop Self-Sustaining Freshwater Cooling Technologies for AC CWP Condenser in The Maritime Industry: A Feasibility Study**

Jaber Al Balushi and Mira Chitt, Mechanical Engineering Department, Global College of Engineering and Technology, Muscat, Oman

**ID 257 Robust Reconfiguration Planning of Mixed-model Assembly Lines Under Uncertainty**

Mobina Razmara, S. Ehsan Hashemi-Petroodi, Frédéric Babonneau, The Centre of Excellence in Supply Chain (CESIT), KEDGE Business School, Bordeaux, France

Alexandre Dolgui, IMT Atlantique, LS2N, UMR CNRS 6004, F-44307, Nantes, France

**2:00 – 3:30, FRIDAY, July 4**

**Onsite Room 5**

Session Chair: Junsong Bian, Rennes School of Business, 2 rue Robert d'Arbrissel, Rennes, France

## Supply Chain and Logistics

**ID 234 Application of Hybrid Memetic Algorithm to solve Dynamic Vehicle Routing Problem with Overtime in the context of reverse logistics**

Amina Berahhou, Smart Systems Laboratory, Rabat IT Center ENSIAS, Mohammed V University, Rabat, Morocco

Youssef Benadada, Smart Systems Laboratory, Rabat IT Center ENSIAS, Mohammed V University, Rabat, Morocco

**ID 279 Smart Swaps: Optimizing Rotable Inventory for Exchange-Based Maintenance and Overhaul Operations**

Murat Erkoc, Department of Industrial and Systems Engineering, University of Miami, Coral Gables, FL, USA

Salvador Romo-Fragoso, Stahl LLC, Miami, FL USA

**ID 306 The Peril of Channel Integration with Environmental Quality Under Competition**

Suzhen Liang, Junsong Bian and Adilson Borges, Rennes School of Business, 2 rue Robert d'Arbrissel, 35065, Rennes, France

**2:00 – 6:00, FRIDAY, July 4**

**Onsite Room 6**

## Entrepreneurship and Innovation Workshop

Professor Don Reimer

Adjunct Professor, Lawrence Technological University

Michigan, USA

**2:00 – 3:30, FRIDAY, July 4**

**Zoom Room 7**

Session Chairs: Morelia Frías, Departamento de salud municipal de corral, Chile and Dr. Nazrul Islam, IEOM Canada

## Engineering Management, Business Management and Operations Management

**ID 155 Rapid Development of Information Systems (IS) Artifacts using Design Science Research Methodology (DSRM)**

Michael Bosch, PhD Student, University of Johannesburg, Faculty of Engineering and the Built Environment, Auckland Park, South Africa

Jan Harm C Pretorius and Leon Pretorius, University of Johannesburg, Faculty of Engineering and the Built Environment, Auckland Park, South Africa

**ID 348 Improvement of Productivity in the Jean Pants Line in Textile Through Lean Manufacturing Tools**

Piero Alexander Garces Pinedo, Diego Miguel Carrascal Gutiérrez, and Carlos Medardo Urbina Rivera, Universidad de Lima, Perú

**ID 346 Sustainable blockchain-enabled cut-flower supply chain design to achieve environmental targets; an integrated mathematical model approach**

Zahra Mohammadnazari, PhD student in Centre for Business in Society, Coventry University, Coventry, UK

Mahdi Bashiri, Associate Professor in Centre for Business in Society, Coventry University, Coventry, UK

David Bek, Professor of Creative Economies and Ecological Sustainability, Research Centre for Creative Economies, Coventry University, UK

**ID 394 Swapping Ahead: Key Enablers of Battery Swapping in India's Electric Vehicle Ecosystem**

Rudra Prakash Pradhan, Ann Mary Varghese, Arnab Chakraborty, Aditi Sen and Upasana Haldar, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur, WB- 721302, India

**ID 389 "What Makes Vietnam More Attractive Than Indonesia in The Eyes of Technology Company as Their Investment Destination?": Through the lens of FDI Motivation Theory**

Edrick Raynell Jiang, International Business Management Department, BINUS Business School, Bina Nusantara University, Tangerang, Indonesia  
Scherly Hansopaheluwakan, S.E., M.I.B., International Trade Department, Bina Nusantara University, Medan, Indonesia

**ID 438 Ergonomic Assessment of Manual Loading and Unloading of Wood in Forestry Trucks**

Morelia Frías, Departamento de salud municipal de corral, Chile

**ID 437 Optimization of the Cocoa Production Chain: Key Strategies for a Stronger Industry in San Martin, Peru**

Elizabeth Orrego Valverde and Maria Teresa Noriega-Aranibar, Universidad de Lima, Peru

## Doctoral Dissertation Competition sponsored by Airbus

**ID 381 Improve Xpert4.0: A Big Data-Driven System to Support Continuous Improvement Initiatives and Decision-Making in 4.0 Companies**

Ângela F. Brochado, Ph.D., Research Fellow of Industrial Engineering and Management, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), Center for Research and Development in Mathematics and Applications (CIDMA), University of Aveiro, Portugal

Eugénio M. Rocha, Ph.D., Associate Professor of Mathematics and Data Science, Department of Mathematics (DMat), Center for Research and Development in Mathematics and Applications (CIDMA), University of Aveiro, Aveiro, Portugal

Carina Pimentel, Ph.D., Assistant Professor of Industrial Engineering and Management, Production and Systems Department, Algoritmi Research Unit, University of Minho, Aveiro, Portugal

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### July 4, 2025 (Friday) – Session: 4:00 – 5:45 pm

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**4:00 – 6:00, FRIDAY, July 4**

**Onsite Room 2**

## Meet the Editors Panel II

### Panel Chair

Dr. Laoucine Kerbache

Professor

Head of Engineering Management & Decision Sciences Division

College of Science and Engineering

Hamad Bin Khalifa University, Doha, Qatar

### Panelists

Alexandre Dolgui, Dr. habil., Ph.D., IISE Fellow

Professor and Head, Automation, Production and Computer Sciences Dept.

IMT Atlantique, LS2N-CNRS, La Chantrerie, 4, rue Alfred Kastler – B.P. 20722

F-44307 NANTES Cedex 3, France

Editor-in-Chief, International Journal of Production Research (IJPR)

Dr. Ali Siadat

Full Professor

Laboratoire de Conception, Fabrication Commande

Arts et Métier Paris Tech

Centre de Metz, France

Dr. Roel Leus

Professor of Operations Research

KU Leuven

Leuven, Belgium

**4:00 – 6:00, FRIDAY, July 4**

**Onsite Room 3**

**Session Chair: Mira Chitt, Mechanical Engineering Department, Global College of Engineering and Technology, Muscat, Oman**

## Sustainability, Green Systems and Energy

**ID 230 A Sustainable Operations Management Model for Manufacturing Improvement Initiatives in South Africa: [Five-capital framework perspective]**



Eric Amankwa, Department of Operations Management, Faculty of Management Studies, University of South Africa, Pretoria, South Africa

**ID 239 Integration of Water Desalination and Power Generation using salinity gradient solar ponds (SGSP) hybrid systems and solar thermal systems (STS) in Oman**

Mira Chitt, Mechanical Engineering Department, Global College of Engineering and Technology, Muscat, Oman

**ID 269 Examination of Contingency Factors in Circular Business Model Implementation in Manufacturing Industry -A Systematic Literature Review**

Richard Asante and Aurora Dimache, School of Engineering, Atlantic Technological University, Galway, Ireland

Vicky O'Rourke, Faculty of Business, Atlantic Technological University, Letterkenny, Ireland

Graham Heaslip, Full Professor of Supply Chain, School of Engineering, Atlantic Technological University, Galway, Ireland

George Onofrei, School of Engineering, Atlantic Technological University, Letterkenny, Ireland

**ID 277 Innovations in Green Hydrogen Production for a Sustainable Future through Oman Vision 2040**

Said Al Shaqri and Mira Chitt, Mechanical Engineering Department, Global College of Engineering and Technology, Muscat, Oman

**4:00 – 6:00, FRIDAY, July 4**

**Onsite Room 4**

**Session Chair: Sepideh Abolghasem, California State University of Northridge, United States**

## Lean Six Sigma and Operations Excellence

**ID 219 Optimizing Industrial Engine Testing: Unveiling Operational Efficiency with SMED Techniques for Changeover Time Reduction**

Ved Prabha Toshniwal, Institute of Business Management, GLA University, Mathura, India

Jeetesh Sharma, Institute of Business Management, GLA University, Mathura, India

Murari Lal Mittal, Department of Mechanical Engineering, Malaviya National Institute of Technology, Jaipur, India

Makkhan Lal Meena, Department of Mechanical Engineering, Malaviya National Institute of Technology, Jaipur, India

**ID 287 Reduction of Threading Defects in Shaft Manufacturing Using Six Sigma DMAIC Methodology**

Shahbaz Ansari, Graduate Student, Manufacturing Systems Engineering and Engineering Management, California State University of Northridge, United States

Nikhil Naik, Graduate Student, Manufacturing Systems Engineering and Engineering Management, California State University of Northridge, USA

Sepideh Abolghasem, Associate Professor of Manufacturing Systems Engineering and Management, California State University of Northridge, United States

**ID 147 Effectiveness of Household Collection and Disposal of E-Waste in National Capital Region, Philippines**

Mark Anthony Canay, Mapua University, Philippines

**ID 305 A SWOT Analysis of Kaizen Implementation in a Developing Country: A Case Study of Botswana Manufacturing Plants**

Robert O. K. Monageng and Kobamelo Mashaba, Mechanical Engineering Department, University of Botswana (UB), Gaborone, Botswana

Poloko Thobega, Productivity and Quality Department, Botswana National Productivity Centre (BNPC), Gaborone, Botswana

**ID 405 Reducing Delays and Failures in Delivery Services through Six Sigma approach and Digital Solutions**

Sadeem AlQahtani, Yasmeen Alawadhi, Retaj Altamimi, Danah Alajmi, Raghad Alajmi and Oumayma Hamlaoui, College of Engineering and Technology, American University of the Middle East, Kuwait

**4:00 – 6:00, FRIDAY, July 4**

**Onsite Room 5**

**Session Chair: Maqsood Sandhu, College of Business and Economics, United Arab Emirates University, Al Ain, UAE**

## Engineering Management and Project Management

**ID 152 'Flexible' Project Management: A guideline to forming, managing and leading student teams for technical projects**

Efstratios Rigas, Thomas Kalampoukas, Athina Theochari, Konstantinos Giotis, Evangelos Ch. Tsirogiannis, Christos Belogiannis, Panagiotis Kardaras, Antonis Spanos and Michalis Diakonikolis, Greece

**ID 236 Proactive Evaluation of Mechanical Stresses in Steel Pipelines using the Non-Invasive Magnetic Tomography Method at Rand Water: A Strategy to Reduce Non-Revenue Water**

Didier Ilunga, PhD Student and Senior Pipeline Engineer, Dept. Of Pipeline Asset Management, Rand Water, Johannesburg, South Africa

Danny Kuya, Mogan Padayachee and Aubrey Nxumalo, Dept. Of Innovation and New Technologies/ Strategy Asset Management, Rand Water, Johannesburg, South Africa

**ID 248 Driving Project Excellence: Mindful Leadership and Knowledge Dynamics in Fostering Project Performance. Perspective from Pakistan**

Muhammad Shoaib, Iqbal and Professor Shih Ping, Ho, Ph.D. Student and Professor, Department of Civil Engineering, Construction and Management Division, National Taiwan University, Taipei, Taiwan

Nosheen Qadeer, Department of Economics and Management, Tomas Bata University, Zlín, Czech Republic

**ID 388 Building Information Modeling (BIM) to Enhance Stakeholder Satisfaction in Architecture, Engineering, and Construction (AEC) Projects**

Maqsood Sandhu, Department of Marketing and Entrepreneurship, College of Business and Economics, United Arab Emirates University, Al Ain, UAE

Afshan Naseem, Asjad Shahzad, Yasir Ahmad, and Asiya Siddiq, Department of Engineering Management, National University of Sciences and Technology, Islamabad, Pakistan

2:00 – 6:00, FRIDAY, July 4

Onsite Room 6

## Continuation of Entrepreneurship and Innovation Workshop

Professor Don Reimer, Lawrence Technological University, Michigan, USA

4:00 – 6:00, FRIDAY, July 4

Zoom Room 7

Session Chairs: Jack Su, Anderson School of Management, University of New Mexico, Albuquerque, New Mexico, USA  
Dr. Nazrul Islam, IEOM Canada

## Sustainability and Manufacturing

### ID 167 Examining Greenwashing Through the Lens of the Theory of Planned Behavior

Jack Su, Associate Professor, Anderson School of Management, University of New Mexico, Albuquerque, New Mexico, USA  
Wayne Fu, Associate Professor, College of Business, University of Michigan-Dearborn, 19000 Hubbard Drive, Dearborn, Michigan, USA

### ID 235 Strategic Maintenance Practices and Sustainability: A Theoretical Framework Integrating TPM, RBV, and the Triple Bottom Line

Mammolele P. Malomane, PhD Student, Graduate School of Engineering Management, Department of Management, University of Johannesburg, Johannesburg, South Africa  
Chuks Medoh, Post Doctoral Research Fellow of College of Science Engineering and Technology, Department of Digital Business, University of South Africa (UNISA), Johannesburg, South Africa  
John-Harm Pretorius, Full Professor of Post Graduate School of Engineering Management, Department of Management, University of Johannesburg, Johannesburg, South Africa

### ID 392 Critical Enablers of Battery Leasing in Indian Electric Vehicle Battery Infrastructure

Rudra Prakash Pradhan, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur, WB- 721302, India  
Ann Mary Varghese, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur, WB- 721302, India  
Avinash Chauhan, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur, WB- 721302, India  
Roopa Raju, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur, WB- 721302, India  
Deep Choudhury, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur, WB- 721302, India

### ID 401 A Network Infrastructure Design Implementation for JPS Interior Designs

Sean Alester C. Ocampo, Jonathan Niel G. Banawis, Benedict M. Guarin and Adriane Brent S. Castro, Bachelor of Science in Information Technology, College of Computer Studies, Angeles University Foundation, Angeles City, Philippines

### ID 458 Enhancing Textile Finishing Processes: A Comprehensive Framework Implementation and Impact Analysis

Faris Alrefaei, Abdullah Alsaadi and Ramzi Alahmadi, Department of Industrial Engineering, Taibah University, Madinah, Saudi Arabia

### ID 460 Detecting Employees at Risk of Leaving with Prediction Models Based on Machine Learning Algorithms

Carlos Hernández and Valentina Cabezas, Departamento de Procesos Industriales, Universidad Católica de Temuco, Temuco, Chile

### ID 393 Waste to Wattage: Enablers of Battery Circularity in India's Electric Vehicle Landscape

Rudra Prakash Pradhan, Ann Mary Varghese, Himanshu Chandra, Akanksha Jaiswal and P. Vanita, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur, WB, India

### ID 247 Dry Flue Gas Desulphurization using $\text{NaHCO}_3$ and $\text{Na}_2\text{CO}_3$ Sorbents in a Fixed Bed Reactor

Lawrence Koech and Kasturie Premilall, Department of Chemical, Metallurgical and Materials Engineering, Tshwane University of Technology Pretoria, South Africa

**July 4, 2024 (Friday) - Session: 7:00 – 10:00 pm**

Conference Awards Ceremony and Dinner at a Chinese restaurant

# 9th European IEOM Conference

Derby, UK, July 7-9, 2026

Host and Venue: University of Derby, UK

Conference Chair:

**Prof. Jose Arturo Garza-Reyes**

Professor of Operations Management  
Head of the Centre for Supply Chain Improvement  
College of Business, Law and Social Sciences  
The University of Derby  
Kedleston Road Campus  
Derby, DE22 1GB, UK

# IEOM Student Chapters around the World

## Algeria

1. Adrar University

## Australia

2. Queensland University of Tech., Brisbane
3. UNSW-Canberra
4. University of Melbourne
5. University of Wollongong
6. University of Adelaide

## Bahrain

7. University of Bahrain

## Bangladesh

8. Ahsanullah University of Sci & Tech (AUST)
9. Bangladesh Institute of Management (BIM)
10. Bangladesh University of Textiles (BUTEX)
11. BUET
12. CUET
13. Daffodil International University (DIU)
14. DUET, Gazipur
15. European University of Bangladesh
16. International Islamic University of Chittagong
17. IUBAT
18. Jessore University of Science and Technology
19. Khulna University (KU)
20. Khulna University of Eng and Tech (KUET)
21. Military Institute of Science and Technology
22. National Institute of Textile Eng & Res (NITER)
23. Rajshahi University (RU)
24. SUST
25. University of Chittagong
26. World University Bangladesh (WUB)
27. BAUST
28. American International University-Bangladesh (AIUB)
29. BGMEA University of Fashion and Technology (BUFT)
30. IUB – Independent University, Bangladesh

## Bolivia

31. Universidad Católica Boliviana

## Botswana

32. University of Botswana

## Brazil

33. Federal University of Sao Carlos (UFSCar)
34. Federal University of Santa Catarina (UFSC)
35. University of Sao Paulo (USP) – Sao Carlos
36. Federal Institute of Sao Paulo, Sorocaba
37. FACENS University, Sorocaba

## Canada

38. Concordia University
39. Humber Institute of Tech and Adv Learning
40. Polytechnic Montreal
41. University of New Brunswick at Fredericton
42. University of Waterloo
43. University of Windsor

## Colombia

44. Fundación Univ. Tecn. Comfenalco, Cartagena, Bolívar
45. University of Rosario, Bogota
46. University of Quindío
47. Universidad de San Buenaventura, Cali, Valle
48. Institución Universitaria Colegios de Colombia
49. Escuela Colombiana de Ingeniería Julio Garavito
50. Universidad Católica de Colombia
51. Universidad Santo Tomás de Aquino
52. Fundación Universitaria Internacional de La Rioja
53. Universidad América
54. Universidad Militar Nueva Granada (UMNG)
55. Universidad Cooperativa de Colombia (UCC)
56. Universidad del Norte
57. Corporación Universitaria Minuto de Dios – UNIMINUTO
58. Fundación Universitaria de Popayán
59. Universidad Nacional Abierta y a Distancia (UNAD)

## Costa Rica

60. University of Costa Rica

## Czech Republic

61. University of West Bohemia, Pilsen

## Ecuador

62. Technical University of Ambato
63. Universidad San Francisco de Quito

## Egypt

64. Zagazig University
65. Fayoum University
66. British University in Egypt

## Ethiopia

67. Bahir Dar Institute of Technology
68. Addis Ababa University Institute of Technology
69. Mekelle University

## Finland

70. University of Vaasa

## France

71. IESEG School of Management
72. Lorraine University, Metz

## Germany

73. Technical University Applied Sciences Augsburg

## Ghana

74. Technological Education Institute (TEI), Larissa
75. Ho Technical University
76. University of Ghana

## Greece

77. Accra Technical University

## Haiti

78. Université Quisqueya

## India

79. College of Eng and Tech, Bhubaneswar, Odisha, India
80. College of Engineering Guindy, Chennai
81. Guru Nanak Dev Engineering College
82. Pandit Dendayal Petroleum Univ., Gujrat
83. P.D.A. College of Engineering, Gulbarga
84. Vellore Institute of Technology
85. Vidya Jyothi Institute of Technology, Hyderabad
86. Universal College of Eng & Tech (UCET), Guntur
87. National Institute of Technology (NIT), Warangal
88. Jawaharlal Nehru Technological University Hyderabad
89. IITS, India
90. Birla Institute of Tech & Sciences (BITS Pilani)
91. Amrita School of Business – Bangalore
92. Amrita school of Arts and Sciences, Mysuru
93. Amrita School of Business, Coimbatore
94. Aligarh Muslim University, Aligarh
95. Mahant Bachittar Singh College Eng & Tech, Jammu
96. Baba Banda Singh Bahadur Eng College
97. Ramaiah University of Applied Sciences
98. Nawab Shah Alam Khan College Eng & Tech (NSAKCET)
99. Global Institute Of Eng and Technology, Hyderabad
100. VNR Vignana Jyothi Institute of Eng and Technology
101. Siddhartha Institute of Engineering & Technology
102. Osmania University – The University College of Eng
103. VJTI Mumbai – Veermata Jijabai Technologic. Institute
104. BML Munjal University, Gurugram, India
105. AKTU University, Kanpur, India
106. Mufakkhamjah College of Eng. and Tech, Hyderabad
107. Methodist College of Engineering and Technology
108. Vardhaman College of Engineering
109. Dr B R Ambedkar National Institute of Technology, Jalandhar
110. B. V. Raju Institute of Technology, Vishnupur, Narsapur

111. Anjuman College of Engineering and Technology
112. Bharatiya Eng. Science & Technology Innovation University, (BESTIU), Gownivaripalli, Gorantla, Andhra Pradesh
113. HITAM - Hyderabad Institute of Technology and Management
114. JNTUH University College of Management Hyderabad, JNTUH
115. Siddaganga Institute of Technology, Tumakuru, Karnataka

## Indonesia

116. Atma Jaya Catholic University
117. Bina Nusantara University (Binus), Indonesia
118. Institut Teknologi Bandung
119. Institut Teknologi Sepuluh Nopember (ITS)
120. Sampoerna University, Jakarta
121. Shipbuilding Institute of Polytechnic Surabaya
122. Tarumanagara University
123. UIN Sultan Syarif Kasim, Riau
124. Universitas Diponegoro (Undip)
125. Universitas Gadjah Mada (UGM)
126. Universitas Iqra Baru
127. UIN Sunan Kalijaga, Yogyakarta
128. Universitas Islam Negeri Alauddin Makassar
129. Universitas Sebelas Maret (UNS), Surakarta
130. University of Indonesia
131. Universitas Sumatera, Utara Medan
132. Narotama University, Surabaya
133. Universitas Pakuan, Bogor
134. Trilogi University
135. Universitas Muhammadiyah Riau

## Iran

136. MehrAstan University, Guilan
137. University of Eyvanekey
138. Technical and Vocational University (TVU)
139. University of Tehran

## Iraq

140. Babylon University

## Israel

141. Sapir Academic College
142. Shamoon College of Engineering (SCE), Ashdod

## Italy

143. University of Bologna
144. University of Salento

## Japan

145. Ashikaga University
146. Gunma University

## Jordan

147. Hashemite University

## Kenya

148. Kenyatta University, Nairobi

## Kuwait

149. Gulf University of Science and Technology

## Libya

150. Libyan Academy

## Malaysia

151. Universiti Malaysia Sabah (UMS)
152. Universiti Putra Malaysia (UPM)
153. Universiti Teknologi Malaysia (UTM)
154. Universiti Tun Hussein Onn Malaysia (UTHM)
155. Universiti Utara Malaysia (UUM)
156. University of Malay (UM)

## Mexico

157. Instituto Politécnico Nacional (IPN), Mexico
158. Universidad del Caribe, Cancun
159. Tecnológico de Monterrey, Campus Monterrey
160. Universidad Industrial de Santander
161. Universidad Iberoamericana
162. Universidad de Guanajuato

## Morocco

163. Akhawayn University
164. Ecole Mohammadia d'Ingénieurs (EMI)



# IEOM Student Chapters around the World

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- 165. Sidi Mohamed Ben Abdellah University of Fez
- 166. N. School of Appl Sci. Kenitra, Ibn Tofail Univ
- 167. Ecole Supérieure De Technologie, Fez
- 168. INPT

## **Mozambique**

- 169. Eduardo Mondlane University

## **Namibia**

- 170. National Univ. of Sci. and Tech. in Windhoek

## **Nepal**

- 171. Kathmandu University
- 172. Tribhuvan University

## **Nigeria**

- 173. Covenant University
- 174. University of Ibadan
- 175. University of Nigeria, Nsukka
- 176. University of Benin
- 177. Olabisi Onabanjo University

## **Oman**

- 178. SQU - Sultan Qaboos University
- 179. MEC - Middle East College
- 180. GCET – Global College of Engineering and Technology

## **Pakistan**

- 181. Dawood University of Eng and Technology, Karachi
- 182. Government College University Faisalabad
- 183. Mehran University of Eng and Tech, Jamshoro, Sindh
- 184. Riphah International University, Lahore Campus
- 185. University of Engineering and Technology, Lahore
- 186. UOT – Nowshera
- 187. Information Technology Univ. of the Punjab, Lahore
- 188. Sindh Institute of Management & Technology (SIMT), Karachi
- 189. NED University of Engineering & Technology, Karachi

## **Papua New Guinea**

- 190. Papua New Guinea University of Technology

## **Paraguay**

- 191. National University of Asuncion
- 192. Universidad del Cono Sur de las Américas
- 193. Colegio Técnico Nacional, Asunción,

## **Peru**

- 194. National Univ of San Antonio Abad, Cusco
- 195. Universidad de Lima (ULima)
- 196. Universidad Peruana de Ciencias Aplicadas (UPC)
- 197. Universidad Ricardo Palma (URP)
- 198. Pontificia Universidad Católica del Perú (PUCP)
- 199. Universidad Privada del Norte (UPN)
- 200. Universidad Continental (UContinental)
- 201. Universidad de Ingeniería y Tecnología (UTEC)
- 202. Universidad Nacional de Ingeniería (UNI)
- 203. University of San Martín de Porres (USMP)
- 204. Universidad Nacional Tecnológica de Lima Sur

## **Philippines**

- 205. Bulacan State University, Malolos City, Bulacan
- 206. LPU Laguna
- 207. Mapua University
- 208. De La Salle University (DLSU) Manila
- 209. Adamson University
- 210. CEBU Technological University
- 211. University of San Jose-Recoletos
- 212. Quezon City University

## **Portugal**

- 213. ISEL – Instituto Superior De Engenharia de Lisboa
- 214. FCT NOVA

## **Qatar**

- 215. Qatar University

## **Saudi Arabia**

- 216. Alfaisal University
- 217. Effat University
- 218. King Abdulaziz University (KAU)
- 219. King Abdulaziz University, Rabigh
- 220. King Fahd Univ of Petroleum and Minerals (KFUPM)
- 221. King Khalid University, Abha
- 222. King Saud University (KSU)
- 223. Umm Al-Qura University (UQU)
- 224. Princess Nourah University (PNU)
- 225. Prince Sattam Bin Abdulaziz University
- 226. Prince Sultan University (PSU)
- 227. Taibah University
- 228. University of Tabuk
- 229. Taibah University
- 230. University of Business and Technology
- 231. King Khalid University, Abha
- 232. University of Bisha
- 233. Taif University
- 234. Al-Yamamah University

## **Singapore**

- 235. SUSS

## **South Africa**

- 236. Durban University of Technology (DUT)
- 237. Tshwane University of Technology (TUT)
- 238. University of Johannesburg (UJ)
- 239. University of South Africa (UNISA)
- 240. Vaal University of Technology (VUT)

## **Sri Lanka**

- 241. University of Kelaniya
- 242. University of Peradeniya

## **Sudan**

- 243. Sudan University of Science and Tech Khartoum

## **Thailand**

- 244. Chulalongkorn University, Bangkok
- 245. Chiang Mai University

## **Turkey**

- 246. Turkish-German University
- 247. Uskudar University

## **UAE**

- 248. University of Science & Technology of Fujairah

## **UK**

- 249. University of Derby
- 250. University of the West of England, Bristol

## **USA**

- 251. Central Connecticut State University
- 252. Eastern Michigan University
- 253. Lawrence Technological University, Michigan
- 254. University of the District of Columbia
- 255. Indiana State University
- 256. Florida Polytechnic University
- 257. Buffalo State College
- 258. Southern Arkansas University
- 259. Western Michigan University
- 260. Loyola University Chicago
- 261. Minnesota State University, Mankato
- 262. Central State University
- 263. University of Central Florida
- 264. Minnesota State University, Mankato
- 265. University of Texas – San Antonio (UTSA)
- 266. Capitol Technological University
- 267. Frostburg State University
- 268. Business School of Southern Arkansas University

## **Venezuela**

- 269. Catholic University Andrés Bello, Caracas

## **Vietnam**

- 270. CFVG, Ho Chi Minh City, Vietnam

## **Zambia**

- 271. University of Zambia
- 272. Copperbelt University
- 273. Evelyn Hone College

## **Zimbabwe**

- 274. University of Zimbabwe, Harare
- 275. National University of Science and Technology
- 276. Harare Institute of Technology (HIT)
- 277. Women's University in Africa (WUA)
- 278. Chinhoyi University of Technology (CUT)

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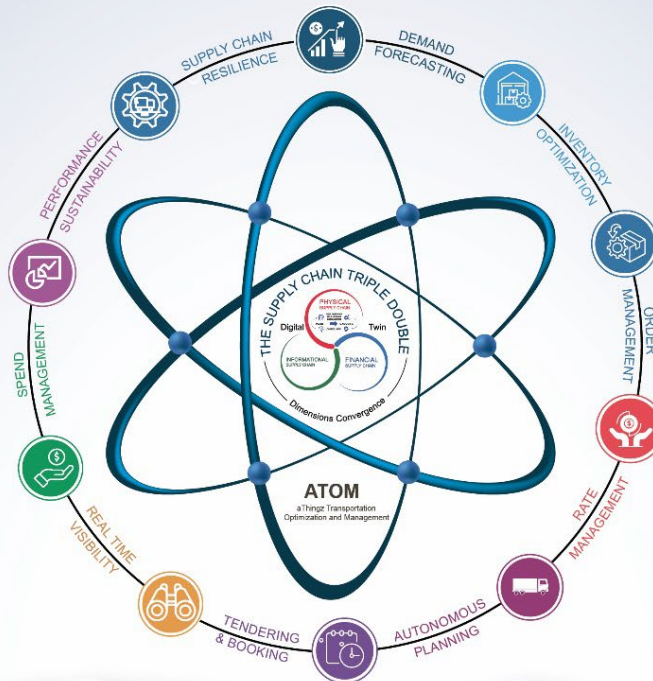
- 279. Bay Area of San Francisco & San Jose, CA
- 280. Arongghata, Khulna, Bangladesh
- 281. Ironwood High School, Glendale, Arizona, USA



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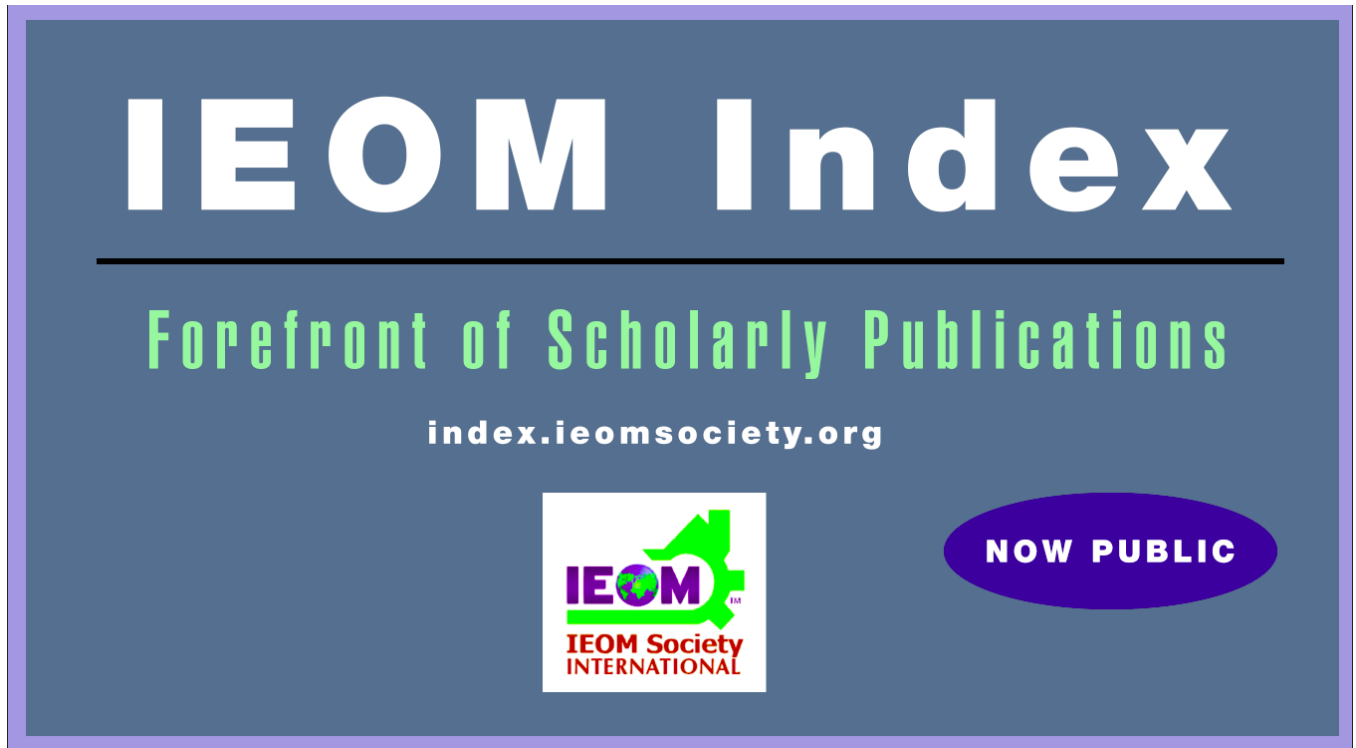
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# Upcoming IEOM Conferences



6<sup>th</sup> Asia Pacific Conference on  
**Industrial Engineering and  
Operations Management**  
August 5-7, 2025, Bali, Indonesia  
Venue: Warmadewa University



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2<sup>nd</sup> World Congress on  
**Industrial Engineering &  
Operations Management**  
Windsor, Canada, October 14-16, 2025  
Host and Venue: University of Windsor



**University  
of Windsor**



3<sup>rd</sup> GCC International Conference on  
**Industrial Engineering &  
Operations Management**  
Tabuk, Saudi Arabia, Dec. 1-3, 2025  
Host & Venue: University of Tabuk



7<sup>th</sup> African International Conference on  
**Industrial Engineering and  
Operations Management**  
Cape Town, South Africa, May 13-15, 2026  
Host and Venue: CPUT, Cape Town



**Cape  
Peninsula  
University  
of Technology**



11<sup>th</sup> North American Conference on  
**Industrial Engineering and  
Operations Management**  
Milwaukee, Wisconsin, USA, June 9-11, 2026  
Host: University of Wisconsin, Milwaukee



16<sup>th</sup> International Conference on  
**Industrial Engineering and  
Operations Management**  
June 23-26, 2026, Ankara, Turkey  
Host and Venue: Gazi University, Ankara



9<sup>th</sup> European Conference on  
**Industrial Engineering &  
Operations Management**  
Derby, UK, July 7-9, 2026  
Host: University of Derby



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