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9th European Conference on Industrial Engineering and Operations Management

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July 20-22, 2026

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IEOM Society

"Achieving and Sustaining Operational Excellence"

www.ieomsociety.org

Industrial Engineering and Operations Management Society International

IEOM Society International, 21411 Civic Center Dr., Suite 205, Southfield, Michigan 48076, USA
Phone / WhatsApp: +1-734-530-7520, Email: info@ieomsociety.org

Welcome to the 9th European International Conference on Industrial Engineering and Operations Management Barcelona, Spain, July 20-22, 2026

To All Conference Attendees:

EUSS School of Engineering and the IEOM Society International are pleased to welcome you to the 9th European International Conference on Industrial Engineering and Operations Management, Barcelona, Spain, July 20-22, 2026. It is hosted by the EUSS School of Engineering, which is affiliated with Universitat Autònoma de Barcelona (UAB). This year's conference highlights key and emerging areas, including artificial intelligence, digital manufacturing, supply chain management, Industry 4.0, the Internet of Things (IoT), lean systems, Six Sigma, simulation, data analytics, automation, and interdisciplinary research. The event serves as a global platform for academics, researchers, and industry practitioners to exchange ideas, present innovations, and discuss advancements in Industrial Engineering and Operations Management.

The conference aims to foster collaboration, networking, and joint initiatives while advancing both the theory and practice of IEOM. We are delighted to share that the conference received about 333 submissions from 60 countries, with 245 papers and abstracts accepted for presentation.

This year's program features a distinguished lineup of keynote speakers representing academia, industry, and global leadership. Their expertise and insights will provide valuable perspectives on contemporary challenges and future directions in industrial engineering, manufacturing, data analytics, and supply chain digitalization.

1. Dr. Ignasi Florensa Ferrando, Director, Escola Universitària Salesiana de Sarrià (EUSS School of Engineering), Barcelona, Spain
2. Prof. Dr. Dursun Delen, Regents Professor at Oklahoma State University, Stillwater, Oklahoma, USA, and Professor at Istinye University, Istanbul, Türkiye
3. Dr. José Carlos de Sá, Ph.D., Associate Professor, Recognized Specialist in Quality Management, Program Coordinator, Postgraduate Program in Lean Six Sigma, Engineering School of Porto (ISEP), Polytechnic of Porto, Portugal
4. Dr. Rupa Vasudevan, Chancellor, Bharatiya Engineering Science and Technology Innovation University (BEST IU), Andhra Pradesh, India
5. Carla Ruiz, Quality and Production Manager, Ball Corporation, Barcelona, Spain
6. Dr. Olga Battaia, Professor, Operations Management and Information Systems Department, KEDGE Business School, Bordeaux, France
7. Dr. Gemma Berenguer, Ph.D., Ramón y Cajal Fellow, Associate Professor, Vice Dean of the Bachelor in Management and Technology, Universidad Carlos III de Madrid, Spain
8. Sinan Onal, Ph.D., Professor and Chair of Industrial Engineering, Southern Illinois University, Edwardsville (SIUE), Illinois, USA
9. Dr. Keivan Amirbagheri, Head, Department of Management Engineering, Escola Universitària Salesiana de Sarrià (EUSS School of Engineering), Barcelona, Catalonia, Spain
10. Núria Delriu Gispert, Key Account Supply, Danone, Barcelona, Catalonia, Spain
11. Dr. Jiri Tupa, COO Research and Innovation Center for Electrical Engineering, Associate Professor in the Department of Material and Technologies, University of West Bohemia, Pilsen, Czech Republic
12. Dr. Hiroyuki Goto, Full Professor, Department of Industrial and Systems Engineering, Hosei University, Koganei, Tokyo, Japan
13. Dr. Daniel Luiz de Mattos Nascimento, Associate Professor, UB Business School, University of Barcelona, Spain and Associate Editor of the International Journal of Lean Six Sigma (IJLSS) and Smart and Sustainable Built Environment (SASBE)
14. Sri Bharatlal Meena, retd IAS, Chairman, Bharatiya Engineering Science and Technology Innovation University (BEST IU), AP, India
15. Dr. Ahad Ali, Director-Doctor of Engineering in Advanced Manufacturing, Lawrence Tech, USA and CEO of IEOM Society

IEOM Society International continues to expand its global footprint, now operating in 188 countries, with more than 50,000 community members worldwide and supporting 304 student chapters across 60 countries. We remain committed to promoting student engagement, research excellence, and international collaboration.

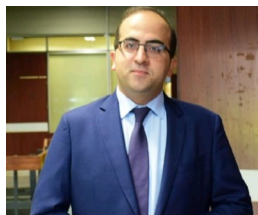
We extend our sincere appreciation to Dr. Ignasi Florensa Ferrando and Dr. Keivan Amirbagheri from Escola Universitària Salesiana de Sarrià (EUSS School of Engineering) for their outstanding leadership and dedication. We also thank our program leadership, keynote speakers, sponsors, partners, authors, reviewers, track chairs, advisors, committee members, and volunteers for their invaluable contributions in making this conference possible.

We are confident that this conference will be an intellectually enriching and collaborative experience for all participants.

We wish you a successful conference and an enjoyable, memorable stay in Barcelona.



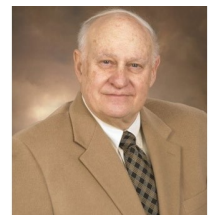
Dr. Ignasi Florensa Ferrando
Conference Chair
Director
Escola Universitària Salesiana de Sarrià
(EUSS School of Engineering)
Barcelona, Catalunya, España



Dr. Keivan Amirbagheri
Conference Program Chair
Head, Dept. of Management Engineering
Escola Universitària Salesiana de Sarrià
(EUSS School of Engineering)
Barcelona, Catalunya, España



Dr. Ahad Ali
Conference Co-Chair
Associate Professor
Director, DEng in Adv Mfg.
Director of IE, Lawrence Tech, USA
Executive Director, IEOM Society



Professor Don Reimer
Program Co-Chair
Chief Operating Officer
IEOM Society International
21411 Civic Center Drive, Suite 205,
Southfield, Michigan, MI 48076, USA

Keynote Speakers

July 20, 2026 (Day 1)

10:30 – 11:00, July 20, 2026 – Conference Opening Keynote



Dr. Ignasi Florensa Ferrando

Director

**Escola Universitària Salesiana de Sarrià (EUSS School of Engineering)
Barcelona, Catalonia, Spain**

Dr. Ignasi Florensa is the Director of the Escola Universitària Salesiana de Sarrià (EUSS), a prominent engineering school in Barcelona affiliated with the Universitat Autònoma de Barcelona (UAB). In his role as Director, he leads the strategic management and academic development of the institution, fostering a pedagogical model known as “Engineering by Doing,” which emphasizes practical competence and holistic student development.

Dr. Florensa holds a Ph.D. in Education with a specialization in the Didactics of Mathematics, as well as an Industrial Engineering degree. This multidisciplinary background allows him to bridge the gap between technical engineering requirements and educational theory. Before assuming the position of Director, he served in

various academic and management roles within the university, contributing significantly to the definition of engineering curricula.

As a researcher, Dr. Florensa is an active member of the international community in Mathematics Education. His research framework is grounded in the Anthropological Theory of the Didactic (ATD). His primary research interests focus on the design, implementation, and analysis of Inquiry-Based Learning (IBL) environments, specifically through Study and Research Paths (SRP). He investigates how mathematical modeling can be effectively integrated into engineering education to improve future engineers' professional competencies.

Dr. Florensa has authored numerous papers in high-impact scientific journals and is a regular contributor to international congresses such as the Congress of European Research in Mathematics Education (CERME) and the International Network for Didactic Research in University Mathematics (INDRUM). He is dedicated to advancing engineering education by promoting teaching methodologies that connect rigorous mathematical tools with real-world engineering problems.

11:00 – 11:30, July 20, 2026 – Keynote



Prof. Dr. Dursun Delen

**Regents Professor at Oklahoma State University, Stillwater, OK, USA
and Professor at Istinye University, Istanbul, Turkey**

Presentation Title: Making Sense of AI, Data Science, and the Future of Decision-Making

Dr. Dursun Delen is a world-renowned thought leader in the fields of artificial intelligence, data science, and business analytics. He currently serves as the William S. Spears Endowed Chair in Business Administration and the Patterson Family Endowed Chair in Business Analytics at Oklahoma State University's Spears School of Business, where he is also a Regents Professor of Management Science and Information Systems and the Director of Research for the Center for Health Systems Innovation. Before joining OSU, Dr. Delen spent five years as a research scientist at a private research and consultancy company, where he led groundbreaking advanced analytics projects funded by prestigious federal agencies, including the Department of Defense and NASA. His prolific scholarship is evidenced by more than 250 peer-reviewed articles and 12 influential books, making him a sought-after consultant and keynote speaker at national and international conferences. In addition to his research and teaching, Dr. Delen shapes the future of his field as the Editor-in-Chief of the Journal of

Business Analytics and AI in Business (Frontiers in Artificial Intelligence), and as a senior or associate editor for several other top-tier journals. His exceptional contributions have been recognized through numerous federal grants and awards—including honors as an eminent professor, Fulbright scholar, Regents' Distinguished Teacher and Researcher, President's Outstanding Researcher, and Big Data Mentor.

11:30 – 12:00, July 20, 2026 – Keynote



Dr. José Carlos de Sá (PhD)

**Associate Professor, Recognized Specialist in Quality Management
Programme Coordinator, Postgraduate Programme in Lean Six Sigma
Engineering School of Porto (ISEP), Polytechnic of Porto, Portugal**

Presentation Title: Operational Excellence through Lean and Culture: Shaping People for Industry 5.0 with the Shingo Model

José Carlos de Sá is an Associate Professor at the Porto School of Engineering (ISEP), Polytechnic of Porto, and a Visiting Professor at the Polytechnic Institute of Viana do Castelo, Portugal, with over 20 years of experience in higher education. He holds a PhD in Industrial and Systems Engineering from the University of Minho (Portugal). José Carlos de Sá began his industrial career in 1998, initially as a junior consultant, later serving as Production and Quality Director in a multinational company. From 2004 to 2020, he worked extensively with industrial companies as a Senior Specialist Consultant on projects focused on safety improvement, waste reduction, and productivity enhancement. He started teaching in higher education in 2006

and has been a full-time lecturer at ISEP since 2020. He has also served as a Visiting Professor at Lusófona University (Porto) and ISAG – European Business School. He is a researcher at LAETA (INEGI, Portugal). In June 2015, he was awarded the Portuguese Specialist Title in Quality Management by the Polytechnic Institute of Viana do Castelo, a nationally regulated professional-academic recognition granted after public examination by an independent doctoral-level jury. This prestigious title is only conferred to individuals with over ten years of full-time industrial experience and distinguished applied research in the field, in recognition of their significant contributions to quality management and continuous improvement. He has published over 135 articles (WoS + Scopus), edited several books, participated in European projects, and has been invited as a keynote speaker at international conferences. He is a member of the Editorial Advisory Board of the journal Technological Sustainability and of the Editorial Board of the journal System Safety: Human – Technical – Facility – Environment.

12:00 – 12:30, July 20, 2026 – Keynote



Dr. Rupa Vasudevan
Chancellor

Bharatiya Engineering Science and Technology Innovation University (BEST IU)
Anantapur, Andhra Pradesh, India

Dr. Rupa Vasudevan is an Educationist, Sociopreneur, Founder and Co-Chairperson of BEST Group (Gatti Valley Educational Institutions). She is the Chancellor of Bharatiya Engineering Science and Technology Innovation University (BEST IU), a State Private University established in Anantapur, Andhra Pradesh. Co-Founder and Director of Evergreen Naturals – EN, a company that focuses on cheaper availability of high-quality agricultural inputs to small and marginal farmers, monitoring growth and farming practices and helping in establishing forward and backward linkages in supply chain management. She is Appointed as one of the ten academicians in the General and Executive Council of Karnataka State Higher Education Council- KSHEC, apex body on education in the State. Regional Co-Chair for ASSOCHAM – Telangana, Andhra Pradesh and Karnataka State. Founder and Global President of World Forum for Education, an independent non-profit organization working globally to advance sustainable development, humanitarian response and facilitating public good through Knowledge sharing and Education. Trustee of Apna Desh Foundation, a Foundation that

spearheads initiatives, finding meaningful ways to make a difference to our farmers while documenting best traditional practices from rural areas of the states of Karnataka, Kerala and Tamil Nadu and Andhra Pradesh. Honorary Trustee of Disha Bharat, a non-profit social organisation that works in the field of value education. Member, Governing Council of Indic Academy (INDICA) – a non-traditional University for traditional knowledge systems. And Member, Governing Council of India Foundation, New Delhi.

12:30 – 13:00, July 20, 2026 – Keynote



Carla Ruiz
Quality and Production Manager
Ball Corporation
Barcelona, Spain

Carla Ruiz holds a Bachelor's Degree in Industrial Organization Engineering from the Salesian University School of Sarrià (EUSS), an engineering school in Barcelona affiliated with the Universitat Autònoma de Barcelona (UAB). Her final degree project focused on the optimization of several customer service processes at Siemens Spain, within the industrial automation products division. This experience sparked her interest in process improvement, operational efficiency, and customer-focused solutions. Carla began her professional career in the electrical and electronic distribution sector, where she led inventory optimization initiatives across multiple company locations by implementing min-max stock management systems based on customer demand. She also drove several organizational improvement projects, including the implementation of a Customer Relationship Management (CRM) system for the sales team. She later spent three and a half years in the metal industry, working for a manufacturer of stainless-steel components. There, she gained hands-on experience in

Lean Manufacturing, Kanban systems, problem-solving methodologies, production planning, and team management within a batch production environment. Today, Carla serves as Quality and Production Manager at Ball Corporation, a global leader in sustainable aluminum packaging. Following Ball's acquisition of Alucan Entec in November 2024, where she had previously worked as Maintenance Manager for two and a half years, she assumed her current leadership role. Her primary focus is supporting the company's integration into a multinational organization while leading quality and production performance. This includes driving cultural change, developing people, promoting ownership and accountability, and strengthening collaboration with a diverse network of stakeholders, from shop-floor teams and global functional leaders to suppliers and customers. She believes that Operational Excellence is achieved not only through robust processes and systems, but also through effective communication, alignment, and strong relationships across the value chain.

Day 21, 2026 (Day 2)

10:30 – 11:00, July 21, 2026 – Keynote



Gemma Berenguer, Ph.D.
Ramón y Cajal Fellow
Associate Professor
Vice Dean of the Bachelor in Management and Technology
Universidad Carlos III de Madrid (Spain)

Professor Berenguer is a Ramón y Cajal Fellow and received her Ph.D. in Operations Research at the University of California, Berkeley. She also holds an M.Eng. in Logistics and Supply Chain Management (ZLC), an M.S. in Economics (Barcelona GSE), and an undergraduate degree in Mathematics (UPC BarcelonaTech). Before joining UC3M, she was an Assistant Professor at the Krannert School of Management, Purdue University. Professor Berenguer's major research topics are nonprofit supply chain management, sustainable operations, and supply chain design. She teaches at the undergraduate, Master, and Executive levels in the

areas of Operations Management, Supply Chain Management, and Sustainable and Socially Responsible Operations. She has experience collaborating with private, public and nonprofit organizations in the global healthcare, consumer goods, transportation, electronic goods, and solar energy sectors. She has published in journals such as Management Science, Operations Research, M&SOM, Production and Operations Management (POM), and Journal of Operations Management. She serves as Associate Editor at Operations Research Journal, Senior Editor at POM Journal, and is on the Editorial Review Board of the Decision Sciences Journal. Among different accomplishments, she has won the Skinner Best paper award at POM journal (2018) and the SOLA Informs Bi-annual Dissertation Award (2014). Professor Berenguer is the Vice Dean of the Bachelor of Management and Technology at UC3M. She has served as the 2023 President of the Public Sector Operations Research (PSOR) Section at INFORMS and the Vice-President Europe at POMS (2022-2024).

11:00 – 11:30, July 21, 2026 – Keynote



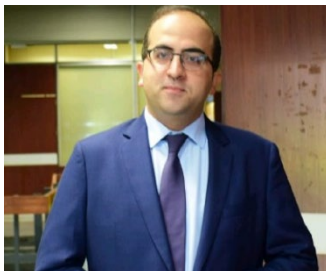
Sinan Onal, Ph.D.
Professor and Chair of Industrial Engineering
Southern Illinois University, Edwardsville (SIUE)
Edwardsville, Illinois, USA

Presentation Title: A Network Operating System for AI-Enabled Early Diagnosis: Architecture, Orchestration, and Governance

Sinan Onal, Ph.D., is a Professor and Chair in the Department of Industrial Engineering at Southern Illinois University Edwardsville (SIUE). His work focuses on how AI and machine learning can be designed and deployed as part of real operational systems, with an emphasis on reliability, accountability, and measurable outcomes. His research interests include human-centered AI in healthcare operations and data-driven decision support for early identification and follow-up pathways. A key application area in his group is gait-based analysis (iGAIT) as a scalable signal to support earlier screening and referral workflows, especially when stakeholders extend beyond the clinic to include families, schools, payers, and public agencies. He also works on AI-enabled quality and inspection systems, applying computer vision and statistical learning to improve process performance and product quality in industrial settings. Dr. Onal has been active in the Institute of Industrial and Systems Engineers (IISE), serving as President of the Data Analytics & Information Systems (DAIS) Division,

as a Board Director, and as Chairperson for DAIS-related activities at the IISE Annual Conference. His recognitions include the SIUE Teaching Excellence Award, the SIU System Collaboration Award, the SIU Faculty Collaborations Award, the Hoppe Research Professor Award, Outstanding IE Teaching Awards, the IISE Energy Systems Division Best Paper Award, an invited speaker role for the Service-Learning Workshop at Arizona State University, and selection for the Frontiers of Engineering Education Symposium at the National Academies' Beckman Center.

11:30 - 12:00, July 21, 2026 – Keynote



Dr. Keivan Amirbagheri
Head, Department of Management Engineering
Escola Universitària Salesiana de Sarrià (EUSS School of Engineering)
Barcelona, Catalonia, Spain

Dr. Keivan Amirbagheri is the Head of the Department of Management Engineering (Industrial Organization) at the Escola Universitària Salesiana de Sarrià (EUSS School of Engineering), affiliated with the Autonomous University of Barcelona (UAB). He holds a Ph.D. in Business from the University of Barcelona (2019) and a Master's degree in Research in Business (2014) from the same institution. His educational background also includes an undergraduate degree in Industrial Engineering with a specialization in Industrial Production, and

a degree in Executive Administration with a focus on Strategic Administration. Dr. Amirbagheri's research interests lie at the intersection of operations management, sustainability, and decision-making sciences. He specializes in Supply Chain Management, particularly Green Supply Chain and Humanitarian Supply Chain operations. He is also a recognized expert in the application of bibliometric analysis to map scientific trends in environmental sciences and engineering, as well as the use of Ordered Weighted Averaging (OWA) operators as decision-making tools in business and environmental contexts. In addition to his administrative role, Dr. Amirbagheri teaches advanced quantitative methods for management to engineering students. He is an active researcher with publications in high-impact journals, including Computers & Industrial Engineering, Energy for Sustainable Development, Environment and Behavior, and Clean Technologies and Environmental Policy. His work often explores the evolution of research in sustainability, environmental accounting, and the integration of fuzzy logic in industrial decision-making. He actively collaborates with international researchers from institutions in Chile, Australia, and the United Kingdom.

12:00 – 12:30, July 21, 2026 – Keynote



Dr. Olga Battaia
Professor
Operations Management and Information Systems Department
KEDGE Business School
Bordeaux, France

Presentation Title: Human-Centric Manufacturing: Opportunities and Challenges

Olga Battaia is a Full Professor of Operations Management and Information Systems at KEDGE Business School. Her work focuses on sustainable operations and decision support systems. From 2020 to 2025, she served as Associate Dean for Research, overseeing nine research centers and more than 200 faculty members and supporting the development of interdisciplinary research across the school. She is an Associate Editor for journals such as Journal of Manufacturing Systems, IISE Transactions, and Omega – The International Journal

of Management Science and member of the Editorial Board of the International Journal of Production Economics. She also serves as DEI Chair of the IFAC Technical Committee on Management and Control in Manufacturing and Logistics. Her research covers supply chain management, sustainable manufacturing, business analytics, and equity-aware decision support. She has published more than 270 peer-reviewed articles and supervised 18 PhD and DBA students and over 120 Master's students. She has been listed in the Stanford–Elsevier ranking of the world's top 2%

of scientists. Prof. Battaia has led and contributed to research projects funded by organizations such as the French National Research Agency, the German Research Foundation, and the European Union. These projects address topics including decision-making under uncertainty, sustainable and adaptable production systems, and human-centered operations management. She regularly presents her work at conferences and universities around the world.

12:30 – 13:00, July 21, 2026 – Keynote



Núria Delriu Gispert
Key Account Supply
Danone
Barcelona, Catalonia, Spain

Núria holds a degree in Industrial Organization Engineering from the Salesian University School of Sarrià (EUSS), an engineering school in Barcelona affiliated with the Universitat Autònoma de Barcelona (UAB). Her final degree thesis focused on the application of mindfulness in organizations, exploring how emotional awareness, focus, and well-being can positively influence performance, decision-making, and organizational culture.

Núria has over six years of experience in Operations and Supply Chain at Danone, where she has developed a strong end-to-end understanding of supply chain processes. She started her career in the Master Data team, playing a key role in optimizing operational processes through data accuracy, standardization, and governance. During this stage, she led data-driven improvements and developed automation robots that significantly reduced manual work, improved reliability, and increased efficiency across teams.

She later transitioned into the Planning team, where she worked with different production, planning, and demand strategies. In this role, she strengthened her analytical and strategic capabilities, contributing to better forecast accuracy, production alignment, and operational agility in a complex and dynamic environment.

Currently, she works in Customer Collaboration, operating at the interface between supply chain and key customers. In this position, she drives close cross-functional and external collaboration to optimize end-to-end processes, improve service levels, and enhance the final delivery experience. Her work focuses on maximizing transparency, alignment, and continuous improvement at the last mile of the supply chain, ensuring value creation for both the company and its customers.

July 22, 2026 (Day 3)

10:30 – 11:00, July 22, 2026 – Keynote



Dr. Jiri Tupa
COO Research and Innovation Center for Electrical Engineering
Associate Professor in the Department of Material and Technologies
University of West Bohemia
Pilsen, Czech Republic

Jiri Tupa received his MSc (2002) and PhD (2006) in Electrical Engineering from the Faculty of Electrical Engineering, the University of West Bohemia in Pilsen in Czech Republic. He is an Associate Professor at the Department of Materials and Technologies. Dr. Tupa is a member of executive management at the Regional Innovation Centre for Electrical Engineering of the Faculty of Electrical Engineering at the University of West Bohemia in Pilsen. He is also PhD supervisor, evaluator of the National Accreditation Bureau for Higher

Education, reviewer of journal and conference publications, and co-organizer of conferences. Since March 2020 is a Fellow of the Industrial Engineering and Operations Management Society International (IEOM). His research interests include Business Process Management, Industry 4.0, Risk and Performance Management in Electrical Engineering Industry, Industrial Engineering, Electronics Manufacturing, and Diagnostics, Financial and Project Management, Knowledge Transfer. Jiri Tupa is responsible for several international research and development projects with industrial and University partners. He is the author and co-author of research publications in international journals and conference proceedings.

11:00 – 11:30, July 22, 2026 – Keynote



Dr. Hiroyuki Goto
Full Professor
Department of Industrial and Systems Engineering
Hosei University
Koganei, Tokyo, Japan

Presentation Title: Beyond Shortest Paths in Geographical and Social Systems

Hiroyuki Goto is a Full Professor in the Faculty of Industrial and Systems Engineering at Hosei University, Japan. He received his B.Sc. and M.Sc. degrees from The University of Tokyo in 1995 and 1997, respectively. He received his D.E degree from Tokyo Metropolitan Institute of Technology in 2004. His research and teaching interests include operations research, geographic information science, and high-performance computing.

11:30 – 12:00, July 22, 2026 – Keynote



Dr. Daniel Luiz de Mattos Nascimento
Associate Professor, UB Business School, University of Barcelona, Spain
Associate Editor of the International Journal of Lean Six Sigma (IJLSS) and
Smart and Sustainable Built Environment (SASBE)

Dr. Daniel Luiz de Mattos Nascimento is an Associate Professor at the University of Barcelona and a recognized scholar in operations, digital transformation, and sustainable industrial systems. He serves as Associate Editor of the International Journal of Lean Six Sigma (IJLSS) and Smart and Sustainable Built Environment (SASBE), and has held academic positions at the University of Jaén (Spain) and as Visiting Professor at the University of Derby (United Kingdom). Before transitioning to academia, Dr. Nascimento built a high-impact career spanning over a decade in multinational Oil & Gas corporations, where he contributed to the delivery of large-scale, capital-intensive industrial assets across the full lifecycle, from design to execution, commissioning, and operations in complex onshore, offshore, and infrastructure environments. This background provides a

distinctive foundation for bridging strategic decision-making, operational excellence, and digital innovation. He has authored more than 60 peer-reviewed publications in Scopus and the Web of Science (JCR), and holds 12 registered software patents, 11 of which are open source, reflecting a strong commitment to innovation, knowledge transfer, and open digital ecosystems. His research lies at the intersection of Industry 4.0, openBIM interoperability, and the circular economy, with a focus on enabling data-driven, resilient, and sustainable systems. He actively collaborates with international industry partners and standardization initiatives, advancing digital frameworks in energy and infrastructure.

12:00 – 12:30, July 22, 2026 – Keynote



Sri Bharatlal Meena, ret'd IAS
Chairman
Bharatiya Engineering Science and Technology Innovation University (BEST IU)
Anantapur, Andhra Pradesh, India

Bharat Lal Meena, a distinguished civil servant and visionary leader, serves as the esteemed Founder and Chairman of Bharatiya Engineering Science and Technology Innovation University located in Andhra Pradesh. With an illustrious career spanning over 32 years within the Indian Administrative Service (IAS), he has held pivotal roles across various departments within the Karnataka State Government and the Government of India. His remarkable tenure includes serving as the Managing Director of the Bangalore Electric Supply Company, Commissioner of both BBMP (Bruhat Bengaluru Mahanagara Palike) and BDA (Bangalore Development Authority), as well as assuming the mantle of Principal Secretary in the field of Agriculture. Culminating his

career in public service, Shri. Meena retired in 2017 as the Additional Chief Secretary overseeing Higher Education in Karnataka. Throughout his esteemed career, Shri. Meena has exemplified dedication, integrity, and a steadfast commitment to excellence. His multifaceted experience in leadership roles within various governmental bodies underscores his profound understanding of governance and administration. As Chairman, Shri. Bharat Lal Meena continues to steer Bharatiya Engineering Science and Technology Innovation University towards unprecedented heights of academic excellence and innovation.

12:30 – 13:00, July 22, 2026 – Keynote



Ahad Ali, Ph.D.
Associate Professor and Director, Doctor of Engineering in Adv. Manufacturing
Director of Industrial Engineering Program
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

Presentation Title: Industrial Engineering Senior Design and Course Projects with Local Companies: Solving Real-World Industry Problems and Publishing with IEOM Society

Dr. Ahad Ali is an associate professor, director of the Doctor of Engineering in Advanced Manufacturing, Director of the Industrial Engineering Program, and Director of the 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 the Doctor of Engineering in Manufacturing Systems (DEMS). He is the 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 (Q1, Scopus Indexing). Dr. Ali is a member of IEOM, INFORMS, SME, and IEEE.

Submissions Received from Countries and Territories

1. Albania	17. Finland	33. Latvia	49. South Korea
2. Algeria	18. France	34. Lebanon	50. Spain
3. Argentina	19. Germany	35. Malaysia	51. Taiwan
4. Austria	20. Ghana	36. Mexico	52. Thailand
5. Bangladesh	21. Greece	37. Morocco	53. Tunisia
6. Belgium	22. India	38. Nigeria	54. Türkiye
7. Bolivia	23. Indonesia	39. Oman	55. Ukraine
8. Brazil	24. Iran	40. Pakistan	56. UAE
9. Canada	25. Ireland	41. Paraguay	57. UK
10. Chile	26. Israel	42. Peru	58. USA
11. China	27. Italy	43. Philippines	59. Uruguay
12. Colombia	28. Japan	44. Portugal	60. Vietnam
13. Croatia	29. Jordan	45. Qatar	61. Zimbabwe
14. Czech Republic	30. Kazakhstan	46. Saudi Arabia	
15. Egypt	31. Kenya	47. Singapore	
16. Ethiopia	32. Kuwait	48. South Africa	

University Partners

1. EUSS School of Engineering, affiliated with Universitat Autònoma de Barcelona (UAB)
2. University of Derby, UK
3. Université De Lorraine, Nancy cedex – France
4. BESTIU – Bharatiya Engineering Science Technology Innovation University, Gownivaripail, Gorantla, Andhra Pradesh, India
5. BIM – Bangladesh Institute of Management
6. Binghamton University, The State University of New York (SUNY), USA
7. Eastern Michigan University, Ypsilanti, Michigan, USA
8. Florida Polytechnic University, USA
9. Lawrence Technological University, Southfield, Michigan, USA
10. Prince Sultan University, Riyadh, Saudi Arabia
11. Universitas Sebelas Maret (UNS), Surakarta, Indonesia
12. Universiti Tun Hussein Onn Malaysia (UTHM), Johor, Malaysia
13. University of Monterrey (UEM), Mexico
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1. African Engineering Education Association (AEES)
2. BKSTI: Agency for Cooperation of Higher Education of Industrial Engineering, Indonesia
3. Indian Institute of Industrial Engineering (IIIE)
4. International Federation of Engineering Education Societies (IFEES)
5. Pakistan Society of Industrial Engineers (PSIE)
6. Society of Cost and Quality Engineers (SCQE)

Online Keynotes

7:00 – 8:00 am, July 20, 2026 - Barcelona Time

7:00 – 7:30, July 20, 2026: Online Keynote Speaker I



Girish Kumar Gopalakrishnan, MS, CMBB, CSSBB, CMQ-OE
Senior Manager – Continuous Improvement – CNH
Senior Member – IEOM Society International

Girish Kumar Gopalakrishnan is a North America Continuous Improvement Senior Manager at Case New Holland (CNH). Girish has led cross-plant transformation initiatives that have significantly advanced manufacturing performance, digital innovation, and cultural engagement across CNH's operations. He is a distinguished continuous improvement leader whose 15-year career reflects deep technical expertise, transformative leadership, and a sustained impact on operational excellence. He holds a Master's degree in Industrial Engineering from North Carolina State University. He was named one among top 50 business transformation leaders to follow in 2025 by Process Excellence Network. He received the 2025 Marlyn Hyde Commitment to Excellence Award from the

American Society of Quality (ASQ) NE Illinois Chapter. He serves as an Industry Advisory Board Member for the Industrial & Manufacturing Engineering department at University of Wisconsin-Milwaukee. He is an ASQ certified Master Black Belt, Black Belt and Certified Manager of Quality and Organizational Excellence. He is also a Senior member with Industrial Engineering & Operations Management Society (IEOM), ASQ and Institute of Industrial Engineers (IISE). Girish is serving as the Secretary of ASQ NE Illinois Chapter, and as an Editor-in-Chief of the ASQ Lean Enterprise Division eZine Quarterly Magazine.

7:30 – 8:00, July 20, 2026: Online Keynote Speaker II



Dr. Mario Fagnoli
Associate Professor
Department of Mechanical and Aerospace Engineering
Sapienza University of Rome
Rome, Italy

Mario Fagnoli is an Associate Professor of Industrial Systems Engineering in the Department of Mechanical and Aerospace Engineering (DIMA) at Sapienza University of Rome. He has been a member of the Industrial Engineering and Operations Management (IEOM) Academy of Fellows since 2023, recognizing his distinguished contributions to industrial engineering and operations management.

Dr. Fagnoli teaches Operations Management at Sapienza University of Rome. Prior to his current appointment, he served as Associate Professor of Industrial Systems Engineering at Universitas Mercatorum from 2022 to 2024. He also had a distinguished career at the Italian Ministry of Agriculture, where he served as Technical Director from 2009 to 2024, leading initiatives in agricultural machinery, occupational health and safety, and sustainable

agricultural practices. During his tenure, he received an official commendation in 2013 for his contributions to implementing the European Directive 2009/128/EC on the sustainable use of pesticides and an official praiseworthy service recognition in 2015 for his outstanding work as Health and Safety Manager.

Throughout his academic career, Dr. Fagnoli has held several teaching appointments at Sapienza University of Rome, including courses in Machinery Safety and Machinery Safety Design. Earlier in his career, he was a Research Fellow at Sapienza University of Rome, focusing on the safety and environmental conformity of products, machinery, and industrial equipment. He also served as a Japan Society for the Promotion of Science (JSPS) Fellow Researcher at the Department of Precision Engineering, The University of Tokyo, where he conducted advanced research in sustainable product development and engineering design.

Dr. Fagnoli earned his Ph.D. in Energetics from Sapienza University of Rome with a dissertation on the design and development of sustainable products and eco-efficient engineering design tools. He also holds a Master's degree in Mechanical Engineering, a Specialization in Quality Engineering, and a Master's degree in Environmental Law from Sapienza University of Rome.

His research interests include industrial engineering and operations management, sustainable product development, product-service systems, ecodesign, quality function deployment (QFD), ergonomics, machinery safety, occupational health and safety, sustainability engineering, and manufacturing systems. He has authored numerous peer-reviewed journal articles, conference papers, and book chapters, and his research has received international recognition through extensive citations and collaborations.

Panels

Panel I – July 20, 2026, 2:00 – 3:30 pm

Optimising Automotive Operations: Quality as a Core Driver

Panel II – July 21, 2026, 2:00 – 3:30 pm

**Generative AI and ChatGPT in Higher Education:
Redesigning Industrial Engineering and Operations Management Curriculum
for the AI Era**

17th Annual International Conference on Industrial Engineering and Operations Management Kuala Lumpur, Malaysia, March 23-25, 2027

Host: Universiti Teknologi Malaysia (UTM)

Venue: UTM Kuala Lumpur Campus

Conference Chairs: Dr. Muhd Ikmal Isyraf Mohd Maulana and Dr. Mohd Faridh Ahmad Zaharuddin

Website: <https://ieomsociety.org/malaysia2027/>

Submission Link: <https://www.xcdsystem.com/IEOM/abstract/index.cfm?ID=ed4k2v7>

Registration Link: <https://www.xcdsystem.com/IEOM/attendee/index.cfm?ID=I2cHYxy>

Workshops

Tuesday, July 20, 2026, 4:00 – 6:00 pm (Onsite Room 1)

Project Management Workshop Leading with Emotional Intelligence: A Seminar for Industrial Engineers



Dr. Tony Prensa, PhD, MBA, PMP, CB-PMO, CCP, ITIL, 6σ
Chief Executive Officer & Founder
TP Global Business Consulting, LLC
Orlando, Florida, USA

Dr. Prensa is a highly accomplished executive and leader of project management office (PMO), project/portfolio management, information systems and technologies, combines a Doctorate in Organizational Leadership with a major in Information Systems and Technologies, Certified PMO Professional, Authorized PMO Instructor, Certified Project Management (PMP), and ITILV certification with extensive experience managing and overseeing large information systems projects/programs, strategic planning, and seamless IT implementations. Adept at reengineering business processes, change management and IT infrastructure with business visions to drive profitability, efficiency, and growth within the organization. Proficient at ensuring all processes comply with regulatory requirements and IT governance practices. Excellent communicator with strong influencing and problem-solving skills. Strong leadership skills and demonstrated ability to lead team members and external business contacts including stakeholders such as consultants, partners and vendors. Demonstrated track record of delivery of multiple technical and business projects on time and within budget. Experience in full-lifecycle project management methodologies and tools. Dr. Prensa has been involved with the Project Management Institute for more than twenty-five years. He served a vice president of PMI Puerto Rico Chapter from 1998-2000. He also volunteered in many activities to promote project management and participated of writing PMP exam questions workshop in Dallas, Texas in 2002. Dr. Prensa has helped hundreds of project management professionals to get prepared for the PMP exam. Dr. Prensa has taught project management for several universities in the country, including Virginia Technical University, Grand Canyon University, Colorado Technical University, University of Phoenix and currently teaching for Walden University. With more than 25 years of teaching experience in various formats, face-to-face and virtual. Dr. Prensa has developed techniques to connect with learners and students in the most efficient way. Dr. Prensa has extraordinary people skills, he always puts people first.

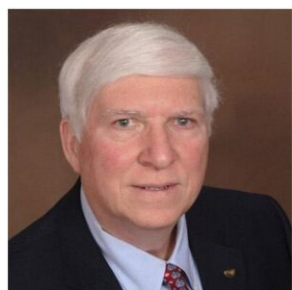
4:00 – 6:00 pm, July 21, 2026 (Wednesday) – Room 1

TOYOTA KATA Workshop The Secret Sauce for Toyota Production System Speaker: Dave Harry

About the workshop

Kata in the Classroom (KiC) workshops are based on Mike Rother's "Toyota Kata" methodology and that Scientific Thinking is a life skill. It's the basis for creativity and successfully pursuing seemingly unattainable goals. KiC demonstrates a teachable skill that anyone can learn — by combining a simple scientific striving pattern with practice routines called Kata — to help you learn meta-cognitive strategies. Many view Toyota Kata as the "secret sauce" of the Toyota Production System (TPS). Mike Rother wrote "Toyota Kata" to explain the secrets of TPS improvement sustaining methodology. How do we prepare for the future when we don't know what the future will bring? We can't predict how to get from A to B... we're stumped and overwhelmed, there are time constraints and economic pressure. Dave Harry will share the "secret sauce" with IEOM and Dubai Area University students through an intense hands-on "Kata in the Classroom" workshop. Be prepared to move fast!

ABOUT THE PRESENTER – DAVE HARRY, a.k.a. "The Process Whisperer®"



DAVE HARRY, a.k.a. "The Process Whisperer®"
Retired U.S. Naval Aviator
CEO of Process Whisperer® Consultants LLC, Greeneville, Tennessee, USA
ASQ certified Six Sigma Black Belt and A PMI certified PMP®

Dave is a retired U.S. Naval aviator and currently CEO of Process Whisperer® Consultants LLC. He teaches LSS classes for TMG Inc of Newport News, VA. Prior to TMG, Dave was a Six Sigma and Productivity Consultant for the University of TN Center for Industrial Services. Dave is a "Kata Geek" and also an ASQ certified Six Sigma Black Belt. He is active in ASQ Sections and the ASQ Lean Enterprise Division Communications. In addition to ASQ, he also holds Black Belt Certification through Rolls-Royce and Northrop Grumman. He is a seasoned ASQ International Team Excellence Awards (ITEA) Judge. Dave is also currently on the Lean Division Board with the Institute of Industrial and Systems Engineers (IISE). Dave is on the Conference Advisory Committee for ASQs 2019 L&SS Conference in Phoenix as well as the Conference Committee for the IISE Engineering 2018 Lean Six Sigma Conference in Atlanta. A PMI certified PMP®, Dave also holds Lean Bronze Certification (LBC) through the SME/ASQ/AME/Shingo Institute Alliance and he holds three Master's Degrees in management related fields. In addition to ASQ, PMI and IISE, Dave is also a member of the Society of Manufacturing Engineers (SME), the Association of Manufacturing Excellence (AME) and the American Production and Inventory Control Society (APICS). Dave lives in Greeneville TN.

8:30 – 10:00 am, Thursday, July 22, 2026 (Onsite Room 1)

Entrepreneurship Workshop

Workshop Facilitator: Professor Don Reimer, Lawrence Tech, MI, USA

Each team will develop an idea to solve an engineering problem that may have commercial potential. They will develop a business plan using the business model canvas. Teams will compete for prizes with best ideas and best commercial potentials. Students need to bring their laptops. Innovation and Entrepreneurship Workshop – A hands-on interactive learning experience

This workshop has been designed to encourage participants in a hands-on interactive learning experience on the development of the entrepreneurial mindset

Topics:

Idea Generation
Opportunity Recognition
Ventura Creation
Value Creation
Understanding and working with the Business Model Canvas as a validation tool
Identifying “Customer Segments” and the “Customer Archetype”
Introduction to the Business Planning Process
Presentation and Recognition (Prizes)

Join us for an exciting and interactive learning experience on how to make your dream a reality.



Professor Donald M. Reimer
Chief Operating Officer, IEOM Society

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

Donald M. Reimer is an adjunct faculty at the A. Leon Linton Department of Mechanical Engineering in College of Engineering at Lawrence Tech in Southfield, Michigan. He coordinates the Certificate of Entrepreneurial Engineering Skills. Mr. Reimer holds a Bachelor of Science degree in Industrial Management from Lawrence Technological University and a Master of Arts degree in Political Science from University of Detroit/Mercy. He is a Certified Management Consultant with over 35 years of experience in working with closely-held businesses. He has taught courses in entrepreneurship, strategic management, corporate entrepreneurship and innovation for engineers. Mr. Reimer is a member of the Lawrence Tech Kern Campus Committee, Coordinator of the Lawrence

Tech Innovation Encounter. He is faculty Advisor of the Collegiate Entrepreneurs' Organization. Mr. Reimer serves as a Kern Fellow of The Kern Family Foundation, Co-Direct of the Coleman Fellows Program, member of the National Collegiate Entrepreneurs' Organization Faculty Advisory Council and is a member of the American Society of Engineering Education.

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

3:00-5:00 pm, July 22, 2026 (Onsite Room 1)

Six Sigma Workshop

IEOM Six Sigma Yellow Belt (IEOM-SSYB)
IEOM Six Sigma Green Belt (IEOM-SSGB)

Speaker: Dr. Ahad Ali, Lawrence Technological University, Southfield, Michigan, USA

Six Sigma Certification Topics

Six Sigma Fundamentals

Define

Project Charter
Process Maps, SIPOC, Matrix Diagrams, Critical to Quality (CTQ) Metrics, and DPMO
Pareto Chart
SIPOC

Measure

Process analysis
Probability, Statistics and Distribution
Data collection and analysis
Gage Repeatability and Reproducibility (R&R)
Process capability

X-Bar Charts, Run Charts, Moving Average Charts, EWMA Charts, Attribute Charts, Takt Time, Standardization, Spaghetti Diagrams, and Setup Reductions

Analyze

Value Stream Map
Hypothesis Testing
Goodness of fit test
Regression Analysis
Cause & Effect Diagrams
Scatter Diagrams
ANOVA
Confidence Interval

Improve

Lean Tools to reduce NVA: 5S, Kaizen, Seven Zeros, TPS Principles, FMEA, and Simulation
Design of Experiments (DOE)
Statistical Process Control (SPC)
Analysis of Variance (ANOVA)
Solutions Validation

Control

Control Plan
SPC
Tracking
DFSS



Dr. Ahad Ali

Associate Professor

Director of Bachelor of Science in Industrial Engineering

Director, Master of Science in Industrial Engineering

Director of Smart Manufacturing and Lean Systems Research Group

A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering

Lawrence Technological University, Southfield, Michigan, USA

Executive Director, IEOM Society International

Dr. Ahad Ali is an Associate Professor and Director of Bachelor of Science in Industrial Engineering and Master of Science in Industrial Engineering in the A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering at the Lawrence Technological University, Michigan. Dr. Ali is the Director of Smart Manufacturing and Lean Systems Research Group. He earned B.S. in Mechanical Engineering from Khulna University of Engineering and Technology, Bangladesh, Masters in Systems and Engineering Management from Nanyang Technological University, Singapore and Ph.D. in Industrial Engineering from University of Wisconsin-Milwaukee. Dr. Ali is the Executive Director of IEOM Society and Conference Chair of the Sixth International Conference on Industrial Engineering and operations Management, Kuala Lumpur 2016. He advised six doctorate students in Doctor of Engineering in Manufacturing Systems. Dr. Ali has published journal and conference papers. He was past President of IIE Lean Division. Dr Ali has done research projects with Chrysler, Ford, DTE Energy, Delphi Automotive System, GE Medical Systems, Harley-Davidson Motor Company, International Truck and Engine Corporation (ITEC), National/Panasonic Electronics, and Rockwell Automation. His research interests include quality, reliability, six sigma, manufacturing, simulation, optimization, scheduling, maintenance, e-manufacturing, lean, CAE and GD&T and. He is a member of ASEE, IEEE, IEOM, INFORMS, and SME.

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- Dr. Ahad Ali, Professor, Director of Doctor of Engineering in Advanced Manufacturing and Director of Industrial Engineering Program, Lawrence Technological University, Southfield, Michigan, USA and CEO of IEOM Society

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- Dr. Nathalie Klement, Arts et Métiers ParisTech, France
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- Dr. Nidhal Regz, University of Lorraine, France
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- Dr. Norzaidahwati Zaidin, Universiti Teknologi Malaysia, Johor, Malaysia
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- Dr. Peter Jacobsen, Technical University of Denmark, Denmark
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- Dr. Petri Helo, University Vaasa, Vaasa, Finland
- Dr. Philipp Baumann, University of Bern, Switzerland
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- Dr. Raja Kothandaraman, Alpha College of Engineering, Chennai, India
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- Dr. Rashmi Jha, Gitarattan International Business School (GIBS), New Delhi, India
- Dr. Ravi Gorr, St. Kabir Institute of Professional Studies, Ahmedabad, India
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- Dr. T. Ramayah, School of Management, Universiti Sains Malaysia
- Dr. Tawanda Collins Muzamwe, Toxiconsol Consultancy, South Africa
- Dr. Theodore B. Trafalis, University of Oklahoma, USA
- Dr. Turki Sadok, University of Lorraine, France
- Dr. Vassilis Gerogiannis, Department of Project Management, Greece
- Dr. Vastag Gyula, Széchenyi István University, Hungary
- Dr. Vladimir Beresnev, Sobolev Institute of Mathematics, Russia
- Dr. Vladimir I. Tsurkov, Russian Academy of Sciences, Moscow, Russia
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- Krunal Patel, Applied Materials, USA
- Rabi Narayan Padhi, Hindustan Aeronautics Ltd – IIMM, India

Conference Schedule

Day 1 – July 20, 2026 (Monday)

08:30 – 10:00	Welcome Network				Zoom Room 7
10:00 – 10:30	Registration / Coffee				
10:30 – 11:00	Opening Keynote: Dr. Ignasi Florensa Ferrando, Director, EUSS School of Engineering, Barcelona, Catalonia, Spain				7:00 – 8:00 Online Keynotes
11:00 – 11:30	Keynote: Prof. Dr. Dursun Delen, Regents Professor at Oklahoma State University, Stillwater, Oklahoma, USA and Professor at Istinye University, Istanbul, Turkiye				8:00 – 11:00 Competitions
11:30 – 12:00	Keynote: Dr. José Carlos de Sá, Ph.D., Associate Professor, Recognized Specialist in Quality Management, Programme Coordinator, Postgraduate Programme in Lean Six Sigma, Engineering School of Porto (ISEP), Polytechnic of Porto, Portugal				11:00 – 12:00 HF and Ergo
12:00 – 12:30	Keynote: Dr. Rupa Vasudevan, Chancellor, Bharatiya Eng. Sci. and Technology Innovation University (BEST IU), Anantapur, AP, India				12:00 – 14:00 BM & OM
12:30 – 13:00	Keynote: Carla Ruiz, Quality and Production Manager, Ball Corporation, Barcelona, Spain				
13:00 – 14:00	Lunch at the EUSS Cafeteria				14:00 – 16:00 SCM
	Afternoon Technical Sessions – Breakout Rooms				
	Room 1	Room 2	Room 3	Room 4	16:00 – 18:00 Industry 4.0
14:00 – 15:30	Panel – Optimising Automotive Operations: Quality as a Core Driver	PhD and MS Thesis Competitions High School Competition	Simulation, Optimization and Productivity	Supply Chain Management and Logistics	18:00 – 20:00 HF and Ergo
15:30 – 16:00					
16:00 – 18:00	AI and PM – Dr. Tony Prensa	AI and DS	BM & OM	Engineering Education	
16:00 – 18:00 (Day 1) – Poster Evaluation Session Display Posters for three days. Bring Your Printed Poster, 36” (Length) x 24” (Height)					

Day 2 – July 21, 2026 (Tuesday)

08:00 - 17:00	Registration					Zoom Room 7
08:30 - 10:00	Room 1	Room 2	Room 3	Room 4		8:00 – 10:00 AI & DS
	Simulation	Engineering Education	Entrepreneurship	EM & Case Studies		
10:00 - 10:30	Coffee Break					10:00 – 12:00 Sustainability
10:30 - 11:00	Keynote: Dr. Olga Battaia, Professor, Operations Management and Information Systems Department, KEDGE Business School, Bordeaux, France					
11:00 - 11:30	Keynote: Dr Gemma Berenguer, Ph.D., Ramón y Cajal Fellow, Associate Professor, Vice Dean of the Bachelor in Management and Technology, Universidad Carlos III de Madrid, Spain					12:00 – 14:00 EM & PM
11:30 - 12:00	Keynote: Sinan Onal, Ph.D., Professor and Chair of Industrial Engineering, Southern Illinois University, Edwardsville, Illinois, USA					14:00 – 16:00 Automation
12:00 - 12:30	Keynote: Dr. Keivan Amirbagheri, Head, Department of Management Engineering, Escola Universit�ria Salesiana de Sarri� (EUSS School of Engineering), Barcelona, Catalonia, Spain					16:00 – 18:00 SCM
12:30 - 13:00	Keynote: N�ria Delriu Gispert, Key Account Supply, Danone, Barcelona, Catalonia, Spain					18:00 – 20:00 Lean Six Sigma
13:00 - 14:00	Lunch at the EUSS Cafeteria					
	Afternoon Technical Sessions – Breakout Rooms					
	Room 1	Room 2	Room 3	Room 4	Room 5	
14:00 - 15:30	Panel – Generative AI and ChatGPT in Higher Education: Redesigning Industrial Engineering and Operations Management Curriculum for the AI Era		AI & DS	BM & OM	Sustainability	SCM
15:30 - 16:00	Networking Tea Break					
16:00 - 18:00	Six Sigma Workshop by Dr. Ahad Ali IEOM Six Sigma Yellow Belt (IEOM-SSYB) IEOM Six Sigma Green Belt (IEOM-SSGB)		AI & DS	Lean Six Sigma	Manufacturing	SCM
	Social Activities					

Day 3 – July 22, 2026 (Wednesday)

08:00 - 13:00	Registration				Zoom Room 7
08:30 - 10:00	Room 1	Room 2	Room 3	Room 4	8:00 – 10:00 Simulation
	Entrepreneurship Workshop by Prof. Don Reimer	BM & OM	Sustainability	SCM	
10:00 - 10:30	Coffee Break				10:00 – 12:00 Quality
10:30 - 11:00	Keynote: Dr. Jiri Tupa, COO, Research and Innovation Center for Electrical Engineering, Associate Professor in the Department of Materials and Technologies, University of West Bohemia, Pilsen, Czech Republic				12:00 – 14:00 Sustainability
11:00 - 11:30	Keynote: Dr. Hiroyuki Goto, Full Professor, Department of Industrial and Systems Engineering, Hosei University, Tokyo, Japan				14:00 – 16:00 Eng. Edu.
11:30 - 12:00	Keynote: Dr. Daniel Luiz de Mattos Nascimento, Associate Professor, UB Business School, University of Barcelona, Associate Editor of the International Journal of Lean Six Sigma (IJLSS) and Smart and Sustainable Built Environment (SASBE)				16:00 – 18:00 BM & OM
12:00 - 12:30	Keynote: Sri Bharatlal Meena, retd IAS, Chairman, Bharatiya Engineering Science and Technology Innovation University (BEST IU), Anantapur, Andhra Pradesh, India				18:00 – 20:00 Sustainability
12:30 - 13:00	Keynote: Dr. Ahad Ali, Lawrence Technological University, Southfield, Michigan, USA and CEO of IEOM Society				
13:00 - 15:00	Awards Luncheon				

July 20, 2026 (Monday) – Day 1

8:00 - 17:00 Registration and Networking

July 20, 2026 (Monday) - Session: 10:00 – 13:00

10:00 – 13:00, Monday

Onsite Auditorium

Opening and Keynotes

10:30 - 11:00 Opening

Dr. Ignasi Florensa Ferrando, Director, Escola Universitària Salesiana de Sarrià (EUSS School of Engineering), Barcelona, Catalonia, Spain

11:00 - 11:30 Keynote:

Prof. Dr. Dursun Delen, Regents Professor at Oklahoma State University, Stillwater, Oklahoma, USA and Professor at Istinye University, Istanbul, Turkiye

Presentation Title: Making Sense of AI, Data Science, and the Future of Decision-Making

11:30 - 12:00 Keynote:

Dr. José Carlos de Sá, Ph.D., Associate Professor, Recognized Specialist in Quality Management, Programme Coordinator, Postgraduate Programme in Lean Six Sigma, Engineering School of Porto (ISEP), Polytechnic of Porto, Portugal

Presentation Title: Operational Excellence through Lean and Culture: Shaping People for Industry 5.0 with the Shingo Model

12:00 - 12:30 Keynote:

Dr. Rupa Vasudevan, Chancellor, Bharatiya Engineering Science and Technology Innovation University (BEST IU), Anantapur, Andhra Pradesh, India

12:30 - 13:00 Keynote:

Carla Ruiz, Quality and Production Manager, Ball Corporation, Barcelona, Spain

13:00 – 14:00 - Lunch at the EUSS Cafeteria

July 20, 2026 (Monday) - Session: 14:00 – 15:30**14:00 – 15:30, Monday****Onsite Room 1****Panel I****Optimising Automotive Operations: Quality as a Core Driver****Three Speakers****July 20, 2026 (Monday) - Session: 14:00 – 15:30****14:00 – 15:30, Monday****Onsite Room 2**

Session Chairs: Sra. Patricia Matilde Zapata Blanco and Dra. Jessica París Paricio, Departament d'organització industrial, EUSS School of Engineering (Escola Universitària Salesiana de Sarrià), Barcelona, Spain

Doctoral Dissertation Competition sponsored by Airbus

ID 54 A Multi-Layered Evaluative Framework for the Implementation of Phishing-Resistant Multi-Factor Authentication in Small and Medium Enterprises

Tanveer Nazneen Mohammed, Bharatiya Engineering Science and Technology Innovation University, Andhra Pradesh, India

ID 248 Development of FGF-Printed HDPE/nHA Composites for Biomedical Application: Effect of Filler Dispersion and Compatibilization

Mohammed AL. Owimri, PHD Student, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Oman
 Moosa Al Kharusi, Assistant Professor, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Oman
 Farooq Al Jahwari, Associate Professor, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Oman
 Sayyad Qamar, Professor, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Sultanate of Oman
 Said Al Mufarraj, PHD Student, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Oman

Master's Thesis Competition

ID 212 The Implementation of a System Thinking Paradigm to Enhance Road Maintenance in Local Government

Sinah Marungane, Department of Industrial Engineering, Faculty of Engineering and the Built Environment, Tshwane University of Technology Pretoria, South Africa

Tshifhiwa Nenzhelele, Department of Industrial Engineering, Faculty of Engineering and the Built Environment, Tshwane University of Technology Pretoria, South Africa

VusiMuzi Malele, Department of Data Science and Computing, Faculty of Information and Communication, North-West University, Vaal, South Africa

High School STEM Competition

ID 16 Bacterial Cellulose Based Scaffolds for Controlled Oxygen Delivery in Low-Resource Regions

Aarna Dwivedi and Goutham Koppolu, Independent, United States

July 20, 2026 (Monday) - Session: 14:00 – 15:30**14:00 – 15:30, Monday****Onsite Room 3**

Session Chair: Dr. Nuno Costa, Instituto Politécnico de Setúbal, ESTSetúbal, Campus do IPS, 2910-761 Setúbal, Portugal

Simulation, Optimization and Productivity Improvement

ID 20 Experimental Modeling and Simulation of Zero-Surface Temperature of Controlled Water Jet Impingement Cooling System for Hot-Rolled Steel Plates

Onah T. O. and Egwuagu M.O., Department of Mechanical and Production Engineering, Enugu State University of Science and Technology Enugu, Enugu, Nigeria

ID 37 An Agent-Based Simulation Framework for Spatial-Temporal Patrol Operations in Stochastic Urban Service Systems

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

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

ID 69 Optimal Conveyance Routes for Short Distance Aerial Emergency Logistics

Ken Bruno Aono, Graduate School of Science and Engineering, Hosei University, Tokyo 184-8584, Japan

Hiroyuki Goto, Department of Industrial and Systems Engineering, Hosei University, Tokyo 184-8584, Japan

Taiki Otsuka, Faculty of IT and Business, Cyber University, Fukuoka 813-0017, Japan

Yoichi Shimakawa, Department of Computer Science and Technology, Salesian Polytechnic, Tokyo 194-0215, Japan

ID 113 A Multi-Criteria Assessment of Economic Performance in G20 Countries Using an Entropy-COPRAS Approach

Mert Unal and Mehtap Dursun, Galatasaray University, Istanbul, Türkiye

ID 122 Rankings Sensitivity to Weights in Multi-Attribute Problems

Nuno Costa, Instituto Politécnico de Setúbal, ESTSetúbal, Campus do IPS, 2910-761 Setúbal, Portugal
 João Lourenço, Instituto Politécnico de Setúbal, ESTSetúbal, Campus do IPS, 2910-761 Setúbal, Portugal

July 20, 2026 (Monday) - Session: 14:00 – 15:30**14:00 – 15:30, Monday****Onsite Room 4**

Session Chair: Mohammad Moshref-Javadi, University of Illinois at Urbana-Champaign, USA

Supply Chain Management and Logistics**ID 1 An Ordinal Priority Approach Multi-Attribute Evaluation of the Critical Success Factors for Integrating Sustainability Practices into African Global Value Chains**

Osayuwamen Omoruyi, Sol Plaatje University, South Africa

ID 14 A Joint Assembly, Inventory and Routing Decisions under Sustainability Objectives

Satya Prakash and Aryandeo Singh, BML Munjal University, Gurugram, India

ID 15 A Consolidated Classification Scheme and Decision Framework for Inventory Management and Vehicle Routing in Procurement Logistics Networks

Satya Prakash and Aryandeo Singh, BML Munjal University, Gurugram, India

ID 21 Optimizing Airport Baggage Handling: A Coordinated MIP Approach for Check-In Desk and Sorting Pier Allocation

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

Sémi Gabteni, Head of Data & Management Science, Direction Générale des Aéroports, Groupe ADP, Tremblay-En-France, France

ID 44 Generative Artificial Intelligence for Decision Making in Supply Chain

Mohammad Moshref-Javadi, University of Illinois at Urbana-Champaign, USA

ID 48 Environmental, Social, and Governance (ESG) Factors in Supplier Assessment and Evaluation

Simon S.M. Yuen, Division of Business and Hospitality Management, College of Professional and Continuing Education, The Hong Kong Polytechnic University, Hong Kong, China

Calvin Cheng, Division of Business and Hospitality Management, College of Professional and Continuing Education, The Hong Kong Polytechnic University, Hong Kong, China

Helen Wong, Division of Business and Hospitality Management, College of Professional and Continuing Education, The Hong Kong Polytechnic University, Hong Kong, China

15.30 – 16.00: Break**July 20, 2026 (Monday) - Session: 16:00 – 17:30****16:00 – 17:30, Monday****Onsite Room 1**

Project Management Workshop

AI and PM

Dr. Tony Prensa, PhD, MBA, PMP, CB-PMO, CCP, ITIL, 6σ
Chief Executive Officer & Founder
TP Global Business Consulting, LLC
Orlando, Florida, USA

July 20, 2026 (Monday) - Session: 16:00 – 17:30**16:00 – 17:30, Monday****Onsite Room 2**

Session Chair: Ayushi Singh, Department of Operations Management, Indian Institute of Management Lucknow, Lucknow, Uttar Pradesh, India

Artificial Intelligence and Data Science**ID 7 Design of a Smart Detection and Alert System to Prevent Vehicle-Animal (camels) Collisions Using Artificial Intelligence (AI)**

Krishna Kumar Koyyala, Utba Ali Said Al-Waaili, Al Azhar Nasser Rashid Alsaidi, Jasim Malik Ibrahim Al-Ajmi, Mohammed Abdallah Said Al-Risi and

Osamah Sulaiman Salim Al-Maktoumi, Department of Engineering, College of Engineering and Technology, University of Technology and Applied Sciences - Shinas, Sultanate of Oman

ID 22 Predicting braking system maintenance using Temporal Fusion Transformer in a Railway carriage

Dakalo Malada, Tshwane university of technology, South Africa

ID 27 Explainable Machine Learning for Proactive Late Delivery Risk Assessment in Supply Chain Management

İrem Nur İLBAŞ, Dept. Of Industrial Engineering, Istanbul University-Cerrahpaşa, Istanbul, Türkiye

Ayşe PAKSOY, Dept. Of Industrial Engineering, Istanbul University-Cerrahpaşa, Istanbul, Türkiye

Yeşim ALTAY, Dept. Of Industrial Engineering, Istanbul University-Cerrahpaşa, Istanbul, Türkiye

ID 31 CRAFTED: Contour-based Residual Adaptive Framework for Texture-aware Motion Transfer with DINOv3 guidance

Yaroslav Tereshchenko, Assistant Professor, PhD, Department of theory and technology of programming, Taras Shevchenko national university of Kyiv, Kyiv, Ukraine

Vitalii Hordichuk, Master's student, Department of intellectual technologies, Taras Shevchenko national university of Kyiv, Kyiv, Ukraine

Pavlo Tytarchuk, Graduate student, PhD candidate, Department of mathematical informatics, Taras Shevchenko national university of Kyiv, Kyiv, Ukraine

Vasyl Tereshchenko, Head, Professor, Department of mathematical informatics, Taras Shevchenko national university of Kyiv, Kyiv, Ukraine

ID 46 Contract Design Between Generative AI Platforms and Content Publishers: A Game-Theoretic Analysis

Ayushi Singh, Department of Operations Management, Indian Institute of Management Lucknow, Lucknow, Uttar Pradesh, India

Sunanda Katewa, Department of Management Studies, Malaviya National Institute of Technology Jaipur, Jaipur, Rajasthan, India

Suresh K Jakhar, Department of Operations Management, Indian Institute of Management Lucknow, Lucknow, Uttar Pradesh, India

ID 267 AI-Based Forecasting of Groundwater Storage Depletion Using GRACE-GLDAS Data

Mohammed S. Al Nadabi, Mohammed El-Diasty, Talal Etri and Mohammad Reza Nikoo, Department of Civil and Architectural Engineering, Sultan Qaboos University, Muscat, Oman

Digital Manufacturing, Industry 4.0 and IoT

ID 13 From Promise to Practice: Modelling Industry 4.0 Challenges in Emerging Economies

Weyinmi Blankson, Royal Free Hospital, London NW3 2QG, UK

Ibrahim Oluwale Raji, School of Business and Law, Leeds Trinity University, Leeds LS18 5HD, UK

Babatunde Odedairo, Industrial & Production Engineering Department, University of Ibadan, Nigeria

Department of Industrial Engineering, College of Engineering in Al-Kharj, Prince Sattam bin Abdulaziz University, Al-Kharj 11942, Saudi Arabia

Oluseyi Afolabi Adeyemi, ASU London, EC1V 0HB, UK

July 20, 2026 (Monday) - Session: 16:00 – 17:30

16:00 – 17:30, Monday

Onsite Room 3

Session Chairs: Elisa Mastronardi, Business Reply Spa, Milan, Lombardy, Italy, Politecnico di Torino, Turin, Italy

Business Management and Operations Management

ID 8 Investigating Customer Reluctancy in Using Digital Platforms Within Retail Transforming Digital Business Environments in Semi-Urban Areas Due to Security Concerns

Langanani Marcel Murwamula, Masters Student, Department of Operations Management, University of South Africa, Pretoria, South Africa

Sinakhonke Mpanza, Senior Lecturer, Department of Operations Management, University of South Africa, Pretoria, South Africa

ID 12 Bridging Finance and Sustainability: The Role of Network Availability in SMEs Success in Kano State

Abdullahi Hassan Gorondutse, Department of Management Science, Nigeria Police Academy, Kano, Nigeria and Research Fellow INTI International Universiti Malaysia, Malaysia

ID 28 Designing Social Platforms in the Face of User Trade-Offs: The Effects of Social Influence

Xiaoxi Liu, Assistant Professor, Business School, Nanjing Normal University, Nanjing, P.R. China

Byung Cho Kim, Associate Dean, Professor, Department of Logistics, Service and Operations Management, Korea University Business School, Korea University, Seoul, Korea

ID 33 Un-bounding newsvendors' rationality: Instruction-based learning vs. learning-by-doing

Elisa Mastronardi, Business Reply Spa, Milan, Lombardy, Italy, Politecnico di Torino, Turin, Italy

Samuele Colombo, Department of Design, Manufacturing, and Engineering Management at the University of Strathclyde, Glasgow, UK

Prof. Giulio Zotteri, Department of Management and Production Engineering, at the Politecnico di Torino, Italy

ID 35 Collective Intelligence Modeling in the Colombian Hospitality Sector: A Genomic and Simulation-Based Approach

Lindsay Álvarez-Pomar, Professor, Department of Industrial Engineering, Universidad Distrital Francisco José de Caldas, Bogotá, Colombia

ID 326 A literature review on B Corps: relevant theories and its implications in today's businesses

Juan Batllo Ferrer, EUSS, Spain

Ryan Armstrong, University of Barcelona, Spain

July 20, 2026 (Monday) - Session: 16:00 – 17:30**16:00 – 17:30, Monday****Onsite Room 4**

Session Chair: Dr. Jiri Tupa, University of West Bohemia, Pilsen, Czech Republic

Engineering Education and Curriculum Improvement**ID 23 Knowledge Management in Postgraduate Engineering Education**

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

ID 30 Rethinking Leadership Competencies in the Digital Workplace: A Dual Perspective of Managers and EmployeesHarris Gerzic, Full-time lecturer, Department of Business Informatics, University of Applied Sciences Campus 02, Graz, Styria, Austria
Berndt Jesenko, Vice Dean, Department of Business Informatics, University of Applied Sciences Campus 02, Graz, Styria, Austria
Stefan Grünwald, Dean, Department of Business Informatics, University of Applied Sciences Campus 02, Graz, Styria, Austria**ID 42 Teaching and Learning the Essential Concepts of Engineering Graphics Using Models**

Slobodan Urdarevik, Western Michigan University, United States

ID 75 Education in Context Industry 5.0: Theory and PracticeJiri Tupa, COO Research and Innovation Center for Electrical Engineering, Associate Professor in the Department of Material and Technologies University of West Bohemia, Pilsen, Czech Republic
Andrea Benesova, Academic Assistant in the Department of Material and Technologies, University of West Bohemia, Pilsen, Czech Republic
Tomas Rericha, Academic Assistant in the Department of Material and Technologies, University of West Bohemia, Pilsen, Czech Republic**ID 118 Determinants of Long-Term Learning Retention in Higher Education: A Systematic Review of Strategies and Challenges**

Lebogang Puree Bopape, Nompumelelo Chili, Mohohlo Tsoeu, Thandeka Makhanya and Christopher Mcineka, Lecturer, Electronic and Computer Engineering, Faculty of Engineering and Built Environment, Durban University of Technology, Durban, South Africa

ID 318 Locked In on Learning: An Escape Room Approach to Project Management Pedagogy

Eirini Panagiota SPYRIDOULIA, Konstantinos KIRYTOPOULOS and Sotiris ZANTIS, School of Mechanical Engineering, National Technical University of Athens, Athens, Greece

July 20, 2026 (Monday) - Session: 16:00 – 18:00**Poster Session (16:00 – 18:00: Day 1)**

Session Chairs:

Dr. Miquel Àngel Amer Boixareu, EUSS - Escola Universitària Salesiana de Sarrià. Affiliated university school to UAB, Barcelona, Spain

Dr. Àngel Borrell Sanz, EUSS - Escola Universitària Salesiana de Sarrià. Affiliated university school to UAB, Barcelona, Spain

Dr. Andreu Moreno Vendrell, EUSS - Escola Universitària Salesiana de Sarrià. Affiliated university school to UAB, Barcelona, Spain

ID 6 Design of a Smart Detection and Alert System to Prevent Vehicle-Animal (camels) Collisions Using Artificial Intelligence (AI)

Al-Azhar Nasser Al-Saidi, Osamah Suleiman Al-Maktoumi, Utba Ali Said Al-Waili, Mohammed Abdullah said Al-Risi and Jasim Malik Ibrahim Al-Ajm, University of Technology and Applied Sciences, Oman

ID 66 AI-Driven High-Speed Multi-Mission Tilt-Rotor UAV with Adaptive VTOL Transition and Hybrid Energy System

Taliyah Shakra Alsharif, King Abdulaziz University, Jeddah, Saudi Arabia

ID 71 Consumer Satisfaction in the Third-Party Refurbished Smartphone Market: A Condition-Specific Analysis Using Online Reviews

Yu-Ting Lin, Department of Industrial and Enterprise Systems Engineering, University of Illinois Urbana-Champaign, Urbana, IL 61801, USA

ID 72 Machine Learning-Based Direct Approximation of Optimized System Designs Through Taylor-Series-Based Problem Transcription

Shih-Yu Huang, Department of Industrial and Enterprise Systems Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, USA

ID 73 A New Physics-Informed Artificial Intelligence Methodology for Lithium-Ion Battery State of Health Prognosis

Tang-Shuo Kao, Department of Industrial and Enterprise Systems Engineering, University of Illinois Urbana-Champaign, Urbana, Illinois, USA

ID 110 Development of a Novel Adaptive Geo-Environmental Control System Based on DLI, PAR, and AI-Driven Spatial Analysis for Resource-Efficient Agriculture in Controlled Environments

Jinan aldwsri, Faculty of Engineering, King Abdulaziz University, Jeddah, Makkah Province, Saudi Arabia

ID 145 Digital Adaptation Strategy in Building Competitive Advantage in the Creative Industry in South JakartaPandhu Imam Rafi, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Enggal Sriwardiningsih, Binus Business School, Bina Nusantara University, Jakarta, Indonesia**ID 146 Experimental Evaluation and Reconstructed Reduced-Order Optimization of an Energy-Free Resonant Channel Breakwater**

Gihwan Kim, Seunggi Choi and Sowon Kim, Busan Science High School, Busan, Republic of Korea

ID 166 Data-Driven Interpretation of Long-Term Stability of Oilwell Cements Using ML and Deep Learning TechniquesJocin James Abraham, Mona Amani and Mahmood Amani, Petroleum Engineering Department, Texas A&M University at Qatar, Doha, Qatar
Catalin Teodoru, Mewbourne School of Petroleum and Geological Engineering, University of Oklahoma, Norman, Oklahoma, USA

ID 179 Optimizing Sustainability in Jordanian Detergent Manufacturing: A Life Cycle Analysis Approach

Leen Suliman Mohammad, Undergraduate at Industrial Engineering Department, Amman, Jordan

ID 184 Evaluating User Experience in Virtual Reality Gaming

Chin-Ching Yin, National Taipei University of Technology, Taipei, Taiwan

Jie-Wei Lin, National Taipei University of Technology, Taipei, Taiwan

Jean-Éric Pelet, IAE de Nantes, Nantes, France

ID 186 Evaluation of VR Design Strategies Using Hybrid BWM-Entropy Weighting and the Kano Model

Chin-Ching Yin, Department of Industrial Engineering and Management, National Taipei University of Technology, Taipei, Taiwan

You-Zhu Shih, Department of Industrial Engineering and Management, National Taipei University of Technology, Taipei, Taiwan

Chia Hui Yu, Department of Business Administration, National Taipei University of Business, Taipei, Taiwan

ID 201 Revolutionizing Drilling: Predicting Drilling Fluid Gel-Strength Using Machine Learning

Durah Alsharidah, King Abdulaziz University, Jeddah, Saudi Arabia

Salah Elktatny and Ahmed Gowida, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia

ID 216 The Interplay of Entrepreneurship, Innovation, Creativity, Family Business Management, and Regional Development: A Strategic Framework

Charles Roberto Hasse, Doctoral Candidate, Regional Development Postgraduate Program, Universidade Regional de Blumenau (Furb)

Blumenau, SC, Brazil

Pro-vice-chancellor of Research, Extension, Innovation and International Relations, Centro Universitario para o Desenvolvimento do Alto Vale do Itajaí (Unidavi), Rio do Sul, SC, Brazil

Maiko Rafael Spiess, Regional Development Postgraduate Program, Universidade Regional de Blumenau (Furb), Blumenau, SC, Brazil

Lilian Adriana Borges, Operations Management Division & Pro-vice-chancellor's Office for Research, Extension, Innovation and International Relations, Centro Universitario para o Desenvolvimento do Alto Vale do Itajaí (Unidavi), Rio do Sul, SC, Brazil

July 21, 2026 (Tuesday) – Day 2

8:00 - 17:00 Registration and Networking

July 21, 2026 (Tuesday) - Session: 8:30 – 10:00

8:30 – 10:00, Tuesday**Onsite Room 1**

Session Chair: Abderrazzak El Boukili, School of Science and Engineering, Al Akhawayn University, Ifrane, Morocco

Simulation, Optimization and Productivity Improvement

ID 132 Numerical Modeling of the Dependence of Boron Diffusion Coefficient on Thermally Induced Strain in Photovoltaic Solar Cells

Abderrazzak El Boukili, School of Science and Engineering, Al Akhawayn University, Ifrane, Morocco

ID 147 Min Max Fairness in the Non-Convex Latency-Based Evacuation Model

Hamoud Sultan Bin Obaid, Department of Industrial Engineering, King Saud University, Riyadh, Saudi Arabia

Theodore B. Trafalis, Department of Industrial and Systems Engineering, University of Oklahoma, Norman, OK, USA

ID 168 Minimizing Machines and Operators in Cyclic Production Systems: A Two-Stage Heuristic Approach

Baruch Keren, Head, Department of Industrial Engineering and Management, SCE – Shamoon College of Engineering, Beer-Sheva, Israel

Yossi Hadad, Department of Industrial Engineering and Management, SCE – Shamoon College of Engineering, Beer-Sheva, Israel

ID 177 Risk Mitigation Budget Allocation: A Simulation-Optimization Approach

Yossi Hadad, Department of Industrial Engineering and Management, SCE – Shamoon College of Engineering, Beer-Sheva, Israel

Baruch Keren, Head, Department of Industrial Engineering and Management, SCE – Shamoon College of Engineering, Beer-Sheva, Israel

July 21, 2026 (Tuesday) - Session: 8:30 – 10:00

8:30 – 10:00, Tuesday**Onsite Room 2**

Session Chair: Mary Foss, Weber State University, United States

Engineering Education and Curriculum Improvement

ID 120 Digital Transformation in Engineering Education: A Systematic Review of University Operations

Lebogang Puree Bopape, Nompumelelo Chili, Mohohlo Tsoeu, Thandeka Makhanya and Christopher Mcineka, Lecturer, Electronic and Computer Engineering, Faculty of Engineering and Built Environment, Durban University of Technology, Durban, South Africa

ID 134 Integrating AI Chatbots and Web Content in Teaching and Learning: Barriers, Opportunities and Strategies: Systematic Review

Christopher Thembinkosi Mcineka, Nompumelelo Chili, Thandeka Makhanya, Lebogang Bopape and Mohohlo Tsoeu, Electronic and Computer Engineering, Faculty of Engineering and the Built Environment, Durban University of Technology, Durban, South Africa

ID 142 Critical Barriers to Engineering Student Success: Strategies and Opportunities: A Systematic Literature Review

Thandeka Makhanya, Lebogang Bopape, Christopher Mcineka, Nompumelelo Chili and Mohohlo Tsoeu, Department of Electronic and Computer Engineering, Durban University of Technology, Durban, South Africa

ID 11 Fostering and Developing Creativity in Engineering Education

Mary Foss, Weber State University, United States

July 21, 2026 (Tuesday) - Session: 8:30 – 10:00**8:30 – 10:00, Tuesday****Onsite Room 3**

Session Chair: Kung-Jeng Wang, National Taiwan University of Science and Technology, Taipei 108, Taiwan, ROC, Taiwan

Entrepreneurship and Innovation**ID 119 Barriers, Opportunities and Strategies in Entrepreneurship Education: A Systematic Review**

Mohohlo Samuel Tsoeu, Lebogang Puree Bopape, Thandeka Makhanya, Christopher Thembinkosi Mcineka and Nompumelelo Innocentia Chili Durban University of Technology, Department of Electronic and Computer Engineering, Durban, South Africa

ID 256 Redbuho: A Technology Platform for Training Women Entrepreneurs in Social and Solidarity Economy

Gabriela Cabrera Zepeda, M.Sc. · Division de Estudios de Posgrado e Investigacion, Orizaba, Veracruz, Mexico

Maricela Gallardo Cordova, M.Sc. · Division de Estudios de Posgrado e Investigacion, Instituto Tecnológico de Orizaba, Tecnológico Nacional de Mexico, Orizaba, Veracruz, Mexico

Guillermo Alfredo Arriola Carrera, Ph.D., Division de Estudios de Posgrado e Investigacion, Instituto Tecnológico de Orizaba, Tecnológico Nacional de Mexico, Orizaba, Veracruz, Mexico

Human Factors, Ergonomics and Healthcare Systems**ID 133 A Rule-Based Framework for Ergonomic Lifting Risk Assessment via Video Analytics**

Kung-Jeng Wang, Department of Industrial Management, National Taiwan University of Science and Technology, Taipei 108, Taiwan, ROC, Taiwan
Artificial Intelligence for Operations Management Research Center, National Taiwan University of Science and Technology, Taipei 108, Taiwan, ROC, Taiwan

Truong Kim Tien, Department of Industrial Management, National Taiwan University of Science and Technology, Taipei 108, Taiwan, ROC, Taiwan

ID 213 Wayfinding as a Patient-Centered Safety System: A Human Factors Case Study of Escalator Use and Fall Risk in Healthcare

Bethany R. Lowndes, College of Medicine, Department of Neurological Sciences, University of Nebraska Medical Center, Innovation Design Unit, Nebraska Medicine, Omaha, NE 68198, USA

July 21, 2026 (Tuesday) - Session: 8:30 – 10:00**8:30 – 10:00, Tuesday****Onsite Room 4**

Session Chair: Venkataramanaiah Saddikuti, Indian Institute of Management-Lucknow, Noida Campus, Noida, Uttar Pradesh, India

Engineering Management and Case Studies**ID 171 Public Services Supply Chain Analysis – A Case Study of Sri Venkateswara Swamy Temple, Vadapalli in the Indian State of Andhra Pradesh**

B. Sundar, Indian Forest Service, Additional Principal Chief Conservator (Information Technologies and Research), Environment, Forests, Science, and Technology Department, Government of Andhra Pradesh, Mangalgiri, Guntur, India

Professor S. Venkataramanaiah, Professor (Operations Systems and Supply Chain Management), Indian Institute of Management Lucknow, Noida India

ID 197 An Operations Management Perspective on Human Organ Transplantation in India: Managing a Time-Critical, Perishable, and Demand-Constrained Service System

Sohan Dudala, Indian Institute of Management-Lucknow, Noida Campus, Noida, Uttar Pradesh, India

Venkataramanaiah Saddikuti, Professor of Operations and Supply Chain Management, Indian Institute of Management-Lucknow, Noida Campus, Noida, Uttar Pradesh, India

ID 198 Data-Driven Crowd Management and Demand Forecasting for Enhancing Pilgrim Safety at a Religious Organisation

Venkataramanaiah Saddikuti, Professor of Operations and Supply Chain Management, Indian Institute of Management-Lucknow, Noida Campus, Noida, Uttar Pradesh, India

Phanindranath Reddy P yreddy, Indian Institute of Management Lucknow, Lucknow, Uttar Pradesh, India

July 21, 2026 (Tuesday) - Session: 10:00 – 13:00

10:00 – 13:00, Tuesday

Onsite Auditorium

Keynotes

10:30 - 11:00 Keynote:

Dr. Olga Battaïa, Professor, Operations Management and Information Systems Department, KEDGE Business School, Bordeaux, France

11:00 - 11:30 Keynote:

Dr Gemma Berenguer, Ph.D., Ramón y Cajal Fellow, Associate Professor, Vice Dean of the Bachelor in Management and Technology, Universidad Carlos III de Madrid, Spain

11:30 - 12:00 Keynote:

Sinan Onal, Ph.D., Professor and Chair of Industrial Engineering, Southern Illinois University, Edwardsville, Illinois, USA

12:00 - 12:30 Keynote:

Dr. Keivan Amirbagheri, Head, Department of Management Engineering, Escola Universitària Salesiana de Sarrià (EUSS School of Engineering), Barcelona, Catalonia, Spain

12:30 - 13:00 Keynote:

Núria Delriu Gispert, Key Account Supply, Danone, Barcelona, Catalonia, Spain

13:00 – 14:00 Lunch Break**July 21, 2026 (Tuesday) - Session: 14:00 – 15:30**

14:00 – 15:30, Tuesday

Onsite Room 1

Panel II

Generative AI and ChatGPT in Higher Education:
Redesigning Industrial Engineering and Operations Management
Curriculum for the AI Era

Panel Speakers

- Professor Don Reimer
- Dr. Ahad Ali
- Dr. Jiri Tupa

July 21, 2026 (Tuesday) - Session: 14:00 – 15:30

14:00 – 15:30, Tuesday

Onsite Room 2

Session Chairs: Dr. Roberto Arjones Rodríguez and Dr. Jorge Bachs Ferrer, Departament d'organització industrial, EUSS School of Engineering (Escola Universitària Salesiana de Sarrià), Barcelona, Spain

Artificial Intelligence and Data Science

ID 116 Design and Implementation an Autonomous Photovoltaic Irrigation System Based on IoT

Lalia Miloudi, Rafik Khiaat and Chaima Reguigui, Electrical Systems Engineering Department, Laboratory of Applied Automation, Faculty of Technology, University of Boumerdès, ALGERIA Algeria

ID 190 Personalized Health Check with Joint Screening: A Data-driven Approach with Partially Observable Markov Decision Process

Haotian Li, Department of Industrial Engineering and Decision Analytics, Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong
Guohua Wan, Antai College of Economics and Management, Shanghai Jiao Tong University, Shanghai 20030, China
Liwei Zhong, Office for Vice President, Shanghai University of Traditional Chinese Medicine, Shanghai 201203, China

ID 214 Decision-Calibrated Graph Learning for Airline Schedule Buffering

Mohamed Abdelmagid, Department of Management Science and Engineering, Khalifa University, Abu Dhabi, United Arab Emirates

ID 250 Human-Centered Governance Framework for AI in Education

Akhilesh Jain, Vinod Gupta School of Management, Indian Institute of Technology Kharagpur, India
Sangeeta Sahney, Professor, Vinod Gupta School of Management, Indian Institute of Technology Kharagpur, India

ID 251 Artificial Intelligence, Data Science, and the Future of Criminology: Rethinking Decision-Making in Criminal Justice

Lilian Adriana Borges, Operations Management Division & Pro-vice-chancellor's Office for Research, Extension, Innovation and International Relations, Centro Universitario para o Desenvolvimento do Alto Vale do Itajaí (Unidavi), Rio do Sul, SC, Brazil
Patrícia Pasqualini Philippi, Law Professor & Vice-chancellor, Centro Universitario para o Desenvolvimento do Alto Vale do Itajaí (Unidavi) Rio do Sul, SC, Brazil

July 21, 2026 (Tuesday) - Session: 14:00 – 15:30

14:00 – 15:30, Tuesday

Onsite Room 3

Session Chair: Zhao Qitong, School of Business, Singapore University of Social Sciences, Singapore

Business Management and Operations Management

ID 36 Heuristic Biases in Newsvendor Decisions: Motivational and Cognitive Mechanisms of Bias Mitigation

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

ID 38 Data-Driven Warehouse Procurement with Stochastic Purchase Lead Times and Lost Sales: A Sample Average Approximation Approach

Zhao Qitong, School of Business, Singapore University of Social Sciences, Singapore

ID 45 Adjustment Costs of Linguistic Integration: Evidence from Residential School Migrations in India

Somdeep Chatterjee and Neeraj Katewa, Mahindra University, India

ID 50 The Airline Fleet Standardization and Scale Economies. A Study of Fleet Standardization Index and its Practical application for Airline Fleet Planning

Amanullah Qureshi, Faculty of Economics and Business, Universitat Oberta de Catalunya, Sustainability, Management and Transport Research Group, Spain

ID 51 Implementing Sustainable Operations Management: Evidence from Resource-Intensive Petrochemical Operations in South Africa

Hilda Kundai Chikwanda, Department of Engineering and Technology Management, University of Pretoria, Pretoria, South Africa
Unathi Swartbooi, Department of Engineering and Technology Management, University of Pretoria, Pretoria, South Africa

ID 67 Designing a System Dynamics Model for a Resilient Omni-Channel Supply Chain in the Petrochemical Industry under Geopolitical Disruptions

Mohammad Hamzehlou, Department of Management, Tehran University, Tehran, Iran
Ayad Hendalianpour, School of Industrial Engineering, Tehran University, Tehran, Iran
Mohsen Khorshidnia, Department of Industrial Engineering, Najafabad Branch, Islamic Azad University, Najafabad, Isfahan, Iran

ID 328 Leader Competencies and Organizational Effectiveness in Hospitality: Communication and Trust as Mediating Mechanisms

Morena Paulišić, Juraj Dobrila University of Pula, Faculty of Economics and Tourism "Dr. Mijo Mirković", Pula, Croatia
Patricia Zagorc Licul, PhD Candidate, Libertas International University, Zagreb, Croatia
Boris Miletić, PhD Candidate, Libertas International University, Zagreb, Croatia

July 21, 2026 (Tuesday) - Session: 14:00 – 15:30

14:00 – 15:30, Tuesday

Onsite Room 4

Session Chair: Murat Kucukvar, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar

Sustainability, Green Systems and Energy

ID 64 Integrating Raw Material Recovery into Product Development: An IDOV-Based Framework

Suharshi De Silva, Aurora Dimache and David Gorman, Department of Mechanical and Industrial Engineering, Atlantic Technological University, Galway, Ireland

Deborah Huber, Dietrich Albert and Erich Weichselgartner, Institute of Psychology, University of Graz, Graz, Austria

Sofie Hoang, Max Ehleben and Klaus Bolze, Institute of Recycling, Ostfalia University of Applied Sciences, Wolfsburg, Germany

ID 106 When Sustainability Signals Build Hotel Brand Equity: The Moderating Roles of Brand Familiarity and Practice Awareness

Vafa Saboori-Deilami, Barowsky School of Business, Dominican University of California, San Rafael, CA, USA

Sandeep Jagani, Department of Management, College of Business, Illinois State University, Normal, IL, USA

ID 170 Social Media Value Co-Creation for Sustainable Green Consumption: A PLS-SEM Study of Taiwan and Vietnam

Chia Hui Yu, Department of Business Administration, National Taipei University of Business, Taipei, Taiwan

Yao-Te Tsai, Department of Information Management, National Kaohsiung University of Science and Technology, Kaohsiung, Taiwan

Van Thy Kieu, Graduate Institute of Management at National Taiwan Normal University, Taipei, Taiwan

ID 175 A Digital-Twin Reverse Logistics Optimization Framework for End-of-Life Electric Vehicle Battery Routing under the EU Battery Passport

Mansour Almuwallad, Department of Management Science, Yanbu Industrial College, Royal Commission for Jubail and Yanbu, Yanbu, Saudi Arabia

ID 300 Evaluating Solar Energy Suitability of the Sites in Qatar using GIS-Based Data and AHP Process

Shahira Omer Abdelnour Suliman, and Kadir Ertogral, Department of Mechanical and Industrial Engineering, Qatar University, Doha, Qatar

Murat Kucukvar, Qatar Transportation and Traffic Safety Center, Qatar University, Doha, Qatar

ID 316 A Scenario-Based Tool for the Integrated Environmental and Economic Assessment: Application to Industrial Packaging Systems

Soufiane El Bechari, Oualid Jouini and Ghada Bouillass, Université Paris-Saclay, CentraleSupélec, Laboratoire Genie Industriel, Yvette, France

Zied Jemai, Université Paris-Saclay, CentraleSupélec, Laboratoire Genie Industriel, 91190 Gif-sur-Yvette, France and OASIS - ENIT, University of Tunis, Elmanar, BP37, Le Belvedere, Tunisia

Sadeque Hamdan, Albert Gubay Business School, Bangor University, Bangor, LL57 2DG, Wales, United Kingdom

Alexandru Volanschii and Robert Heidsieck, GE HealthCare, 283 Rue de la Minière, 78530 Buc, France

July 21, 2026 (Tuesday) - Session: 14:00 – 15:30

14:00 – 15:30, Tuesday

Onsite Room 5

Session Chairs:

Onat Taskin, University of Illinois at Urbana Champaign, IL, United States

Anissa Frini, Department of Mathematics, Computer Science and Engineering, University of Quebec at Rimouski, Quebec, Canada

Supply Chain Management and Logistics

ID 59 Enhancing the Resilience of Agri-Food Supply Chains in the Context of Recent Geopolitical Conflicts

Anissa Frini, Department of Mathematics, Computer Science and Engineering, University of Quebec at Rimouski, Quebec, Canada

Salem Chakhar and Ashraf Labib, Portsmouth Business School, University of Portsmouth, UK

ID 65 Supercenter Process Analysis and Staffing Model Design

Dhruti Rajesh and Onat Taskin, University of Illinois at Urbana Champaign, IL, United States

ID 68 An Analysis of the Cost Benefits of Using Drones in a Milk-Run Distribution System in Hybrid Fashion

Benhür SATIR, Assoc. Prof. Dr., Department of Industrial Engineering, Ankara Science University, Maltepe, Çankaya/Ankara, Türkiye

Batuhan Berk GERÇEK, Enterprise Resource Management Engineer, Turkish Aerospace Industries Inc. (TUSAŞ), Kahramankazan, Ankara, Türkiye

ID 70 Spatiotemporal Parcel Locker Occupancy Estimation Using a Temporal Conditional Variational Autoencoder

Kutay Akdoğan, Logistics Program, İskenderun Technical University, Hatay, İskenderun, Türkiye

Eren Özceylan and Yunus Eroğlu, Department of Industrial Engineering, Gaziantep University, Gaziantep, Türkiye

ID 112 Snapping Retail: How Snapchat Encourages Saudi Women to Retail Entrepreneurship

Sarah Zakour, UBT- University of Business & Technology, Saudi Arabia

Break 15.30 – 16.00

July 21, 2026 (Tuesday) - Session: 16:00 – 17:30

16:00 – 17:30, Tuesday

Onsite Room 1

Six Sigma Workshop

Dr. Ahad Ali
Associate Professor
Director, Doctor of Engineering in Advanced Manufacturing
Director of Industrial Engineering Program
Director of Smart Manufacturing and Lean Systems Research Group
A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
Lawrence Technological University, Southfield, Michigan, USA
Executive Director, IEOM Society International

July 21, 2026 (Tuesday) - Session: 16:00 – 17:30

16:00 – 17:30, Tuesday

Onsite Room 2

Session Chair: Nur BESER, Department of Industrial Engineering, Marmara University, Istanbul, Türkiye

Artificial Intelligence and Data Science

ID 29 Influence of Management Commitment and Safety Supervisor Role on Safety Performance among Multinational Workforces
Wael M. Alruqi, Civil Engineering Department, College of Engineering, Jouf University, Saudi Arabia

ID 32 Digital Material Tracking Systems; Impact on Waste Reduction and Cost Control in Construction Industry
Bogolo Ntombela, Andronica Maakamela, Mfelo Regopotswe and Selamolela Moreke, Department of Building Science, Tshwane University of Technology, Pretoria, Gauteng, South Africa

ID 60 Climate Finance Allocation in Green Capital Projects: Evidence from the Green Climate Fund Portfolio
Abdulaziz Fahad Alharigi, Environmental Protection Department, Saudi Aramco, Dhahran, Saudi Arabia
Abdulahman Saleh Alsahlawi, Jafurah Gas Project Department, Saudi Aramco, Dhahran, Saudi Arabia

ID 79 Defining Functional Requirements for a Dual-Use Compliance Model in Academic Institutions
Wayde Winston Francis, PhD Student at Stellenbosch University, Stellenbosch, Cape Town, South Africa
Cornelia Malherbe, Senior Lecturer at Department of Industrial Engineering, University of Stellenbosch, Stellenbosch, Cape Town, South Africa
Prof Corne Schutte, Vice-Dean: Research and Industry Liaison at the Engineering faculty, University of Stellenbosch, Stellenbosch, Cape Town, South Africa

ID 203 Application of Fuzzy Cognitive Mapping Method to Increase Rankings of Turkish Universities Worldwide
Nur BESER and Seval GONEN, Department of Industrial Engineering, Marmara University, Istanbul, Türkiye

ID 258 A Review of Machine Learning Techniques Used for Downscaling GRACE-derived Groundwater Water Storage
Mohammed S. Al Nadabi, Department of Civil and Architectural Engineering, Sultan Qaboos University, Muscat, Oman
Department of Geographic Information Systems and Remote Sensing, Directorate General of Planning, Ministry of Agriculture, Fisheries and Water Resources, Muscat, Oman
Mohammed El-Diasty, Talal Etri and Mohammad Reza Nikoo, Department of Civil and Architectural Engineering, Sultan Qaboos University, Muscat, Oman

July 21, 2026 (Tuesday) - Session: 16:00 – 17:30

16:00 – 17:30, Tuesday

Onsite Room 3

Session Chair: Sohan Dudala, Indian Institute of Management-Lucknow, Noida Campus, Noida, Uttar Pradesh, India

Lean Six Sigma and Operations Excellence

ID 9 Sustaining Continuous Improvement in Manufacturing: Shifting from Activity to System Design
Thilanka Hettiarachchi, Student, Manufacturing Professional, Savonia University of Applied Sciences, Kuopio, Finland

ID 10 Integrating Lean Manufacturing with Smart Factory Technologies: Toward a Unified Model for Manufacturing Excellence
Thilanka Hettiarachchi, Student, Manufacturing Professional, Savonia University of Applied Sciences, Kuopio, Finland

ID 284 Designing Out Cost Before Steel Is Cut: How Geometry Became a Financial Decision in Discrete Manufacturing
Mark Rushton, aPriori Technologies, UK

July 21, 2026 (Tuesday) - Session: 16:00 – 17:30

16:00 – 17:30, Tuesday

Onsite Room 4

Session Chair: Kudzai Mudada, Industrial Engineering, Faculty of Engineering, Stellenbosch University, Stellenbosch, South Africa

Manufacturing, Assembly and Design

ID 3 Conceptual Design of a PET Filament Extruder to Reduce Plastic Waste and Protect Marine Life

Michael Dakeev Sam, Houston State University, United States

ID 4 Optimizing the Scheduling of a Job Shop with the CONWIP System

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

ID 34 Sequence-Dependent Warm-Up Scheduling in Multi-Product EPQ under Carbon Tax Policy

Amirhossein Nobil, School of Engineering and Sciences, Tecnológico de Monterrey, Monterrey, Mexico
Erfan Nobil, Assistant Professor, Department of Industrial and Mechanical Engineering, Universidad de las Américas Puebla (UDLAP), Puebla, Mexico

ID 47 Characterization and Prediction of Functional Parameters of Grain Slurry Food Processing Machine Using Response Surface Analysis

Egwuagu Onyekachi Marcel, Onah Thomas Okechukwu and Okeke Chineze Glory, Department of Mechatronics Engineering, Enugu State University of Science and Technology, P.M.B 01660, Enugu State, Nigeria
Nwankwojike Brendan Nduka, Department of Mechanical Engineering, Michael Okpara University of Agriculture Umudike, Abia State, Nigeria

ID 178 Exploring process parameter optimization of Fused deposition Modelling for polylactic acid products

Kudzai Mudada, Industrial Engineering, Faculty of Engineering, Stellenbosch University, Stellenbosch, South Africa
Stephen Matope, Professor: Advanced Manufacturing Engineering, Industrial Engineering Department, Faculty of Engineering, Stellenbosch University, Stellenbosch, South Africa

ID 247 Sustainable Manufacturing of Lightweight Polypropylene Composite Foams: Mechanical Performance and Cellular Morphology of Micro/Nano Silica Reinforced PP

Said Al Mufarraj, PHD Student, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Sultanate of Oman
Farooq Al Jahwari, Associate Professor, Department of Mechanical and Industrial Engineering, Oil and Gas Research Center, Sultan Qaboos University, Muscat, Sultanate of Oman
Tasneem Pervaz, Professor, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Sultanate of Oman
Moosa Al Kharusi, Assistant Professor, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Sultanate of Oman
Mohammed AL. Owimri, PHD Student, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Oman

July 21, 2026 (Tuesday) - Session: 16:00 – 17:30

16:00 – 17:30, Tuesday

Onsite Room 5

Session Chair: Mehmood Khan, College of Business Administration, University of Sharjah, Sharjah, United Arab Emirates

Supply Chain Management and Logistics

ID 76 Digitalization of Maintenance Management for TPM Implementation in a Medical Imaging Department: A Tunisian Hospital Case Study

Zeineb Boumallessa, Department of Industrial Engineering, National Engineering School of Tunis, University of Tunis El Manar, Tunis, Tunisia
Laboratory of Electromechanical Systems (LASEM), National Engineering School of Sfax, University of Sfax, Tunis, Tunisia
Zeineb Ben Houria, Department of Industrial Engineering, College of Engineering, University of Ha'il, Ha'il City 81451, Saudi Arabia
LR-OASIS, Department of Industrial Engineering, National Engineering School of Tunis, University of Tunis El Manar, Tunis, Tunisia

ID 139 Mining Booking.com Reviews for Service Reliability Failure Modes: An Operational Diagnostics Approach

Mehmood Khan, College of Business Administration, University of Sharjah, Sharjah, United Arab Emirates
Salman Yousaf, College of Business Administration, University of Sharjah, Sharjah, United Arab Emirates

ID 221 Sulphate-Induced Corrosion of Mild Steel Rebar in Alkaline Media: Long-Term Kinetics, pH-Dependent Morphology, and Non-Passivating Behaviour

Kasturie Premlalla, Department of Chemical, Metallurgical and Materials Engineering, Tshwane University of Technology, Pretoria, South Africa
Douw Faurie (review & editing); Herman Potgieter (supervision, review & editing), South Africa

July 22, 2026 (Wednesday)

8:00 - 13:00 Registration and Networking

July 22, 2026 (Wednesday) - Session: 8:30 – 10:00**8:30 – 10:00, Wednesday****Onsite Room 1****Entrepreneurship Workshop****Professor Don Reimer**

Chief Operating Officer, IEOM Society International

Adjunct Faculty – Lawrence Technological University, Southfield, Michigan, USA

July 22, 2026 (Wednesday) - Session: 8:30 – 10:00**8:30 – 10:00, Wednesday****Onsite Room 2**

Session Chair: Himanshu Chandra, Vinod Gupta School of Management, Indian Institute of Technology Kharagpur, West Bengal, India

Business Management and Operations Management**ID 136 Weaving Sustainability: Enablers of Circular Fashion in India**

Himanshu Chandra, Vinod Gupta School of Management, Indian Institute of Technology Kharagpur, West Bengal, India

ID 169 Developing and Validating a FinTech Service Quality Assessment Framework Using a Hybrid MCDM Model

Chin-Ching Yin, Department of Industrial Engineering and Management, National Taipei University of Technology, Taipei, Taiwan

Chia Hui Yu, Department of Business Administration, National Taipei University of Business, Taipei, Taiwan

Tzu-Yueh Lin, Department of Industrial Engineering and Management, National Taipei University of Technology, Taipei, Taiwan

ID 219 Aligning Organizational Culture and Leadership for Operational Excellence: A Conceptual Framework

A.J.P. Oliveira, J. C. Sá and D. Paixão, Department of Mechanical Engineering, CIDEM, ISEP - School of Engineering, Polytechnic of Porto, Porto, Portugal

J.E. Sordan, Department of Production Management, São Paulo State Technological College – FATEC, Sertãozinho, Brazil

ID 255 Luxury Consumption and Operations Strategy: How Materialism Shapes Distribution and Customer Value Creation

Mehran Ramezanali, Professor of Marketing Research & Pro-vice-chancellor of Administration, Centro Universitario para o Desenvolvimento do Alto Vale do Itajaí (Unidavi), Rio do Sul, SC, Brazil

Lilian Adriana Borges, Operations Management Division & Pro-vice-chancellor's Office for Research, Extension, Innovation and International Relations, Centro Universitario para o Desenvolvimento do Alto Vale do Itajaí (Unidavi), Rio do Sul, SC, Brazil

July 22, 2026 (Wednesday) - Session: 8:30 – 10:00**8:30 – 10:00, Wednesday****Onsite Room 3**

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

Sustainability, Green Systems and Energy**ID 39 Carbon Accounting for Manufacturing with Traceability and Uncertainty Quantification**

Xu Jianxiong, Lecturer, School of Business, Singapore University of Social Sciences, Singapore

ID 40 Strategies for Adopting the Smart Circular Economy in Tourist Accommodations

M.J. Alvarez, R. Mora-Contreras, C. Jaca, M. Ormazabal, I. R-Ferradas and P. Morer-Camo, Tecnun, Universidad de Navarra, San Sebastian, Spain

ID 53 Efficiency Assessment of Hydrogen Refueling Station Locations Using Integrated Geographic Information System and Data Envelopment Analysis

Jettarat Janmontree, Institute for Engineering of Products and Systems, Otto von Guericke University, Magdeburg, Germany

Hartmut Zadek, Institute for Engineering of Products and Systems, Otto von Guericke University, Magdeburg, Germany

Tim Schulz, Institute for Engineering of Products and Systems, Otto von Guericke University, Magdeburg, Germany

Kasin Ransikarbum, Industrial Engineering, Ubonratchathani University, Ubonratchathani, Thailand

ID 58 A Decision Support System for Corporate Social Responsibility Assessment in Manufacturing SMEs

Florentine Esther Mahout Kamte and Mehdi Adda, Department of Mathematics, Computer Science and Engineering, University of Quebec at Rimouski, Quebec, Canada

Anissa Frini and Philippe Kabore, Department of Management Science, University of Quebec at Rimouski, Quebec, Canada

ID 257 An Analysis of the Adoption of Virtual Power Plants in the South African Energy Sector

Clara Dazzlin Chadzimura and Hannelie Nel, Department of Engineering and Technology Management, Graduate School of Technology Management, University of Pretoria, Pretoria, South Africa

Hannelie Nel, Associate Professor, Department of Engineering and Technology Management, Graduate School of Technology Management, University of Pretoria, Pretoria, Hatfield, South Africa

July 22, 2026 (Wednesday) - Session: 8:30 – 10:00**8:30 – 10:00, Wednesday****Onsite Room 4**

Session Chair: Laura Calzada-Infante, Engineering School, University of Oviedo, Spain

Supply Chain Management and Logistics

ID 130 Reflections of Global Supply Chains in Mirror Trade Data

Behzad Hezarkhani, University of Southampton Business School, Southampton, United Kingdom
Guven Demirel, Queen Mary University London, London, United Kingdom

ID 141 The Logistics Performance Indicators 2.0 Framework: Differences from the Traditional LPI and Implications for Türkiye

Ayca ÖZCEYLAN, Oguzeli Vocational School, Gaziantep, Türkiye

ID 182 Improving OTIF Performance Through SLP, 5S, and Demand Forecasting in a Commercial Warehouse Operation

Henry Marcelo Paredes Borja, Faculty of Engineering, Industrial Engineering, Universidad de Lima, Lima, Peru
Diego Moises Escalante Benzaquen, Faculty of Engineering, Industrial Engineering, Universidad de Lima, Lima, Peru
Maria Teresa Noriega-Aranibar, Faculty of Engineering, Industrial Engineering, Universidad de Lima, Lima, Peru

ID 187 Sustainable Sourcing in Food Trade Networks: A Network Approach

Laura Calzada-Infante, Engineering School, University of Oviedo, Spain
B. Adenso-Diaz, Engineering School, University of Oviedo, Spain
Nicanor Garcia Alvarez, Port Authority of Gijon, Spain

ID 217 Research on Blockchain-based agricultural supply chain applications in Africa

Yassine Elkoraichi, LAPSSII Laboratory, Higher School of Technology of Safi, Cady Ayyad University, Safi, Morocco

July 22, 2026 (Wednesday) - Session: 10:00 – 13:00

10:00 – 13:00, Wednesday

Onsite Auditorium

Keynotes

10:30 - 11:00 Keynote:

Dr. Jiri Tupa
COO, Research and Innovation Center for Electrical Engineering
Associate Professor in the Department of Materials and Technologies
University of West Bohemia, Pilsen, Czech Republic

11:00 - 11:30 Keynote:

Dr. Hiroyuki Goto
Full Professor, Department of Industrial and Systems Engineering
Hosei University, Tokyo, Japan

11:30 - 12:00 Keynote:

Dr. Daniel Luiz de Mattos Nascimento
Associate Professor, UB Business School, University of Barcelona

12:00 - 12:30 Keynote:

Sri Bharatlal Meena, retd IAS
Chairman, Bharatiya Engineering Science and Technology Innovation University (BEST IU)
Anantapur, Andhra Pradesh, India

12:30 - 13:00 Keynote:

Dr. Ahad Ali, Lawrence Technological University, Michigan, USA and CEO of IEOM Society

13:00 – 15:00 Awards Luncheon

Virtual - Day 1 (Monday, July 20)

July 20, 2026 (Monday) - Session: 8:00 – 10:00

8:00 – 11:00, Monday

Virtual Zoom Room 7

Session Chair: Dr. Mizanur Rahman, IEOM Australia

Competitions - Online

Undergraduate Student Paper Competition Sponsored by Siemens - Online

ID 55 Six Sigma Beyond the Toolkit: Cultural and Institutional Determinants of Implementation in Saudi Arabia and Germany
Majed Thamer Alshammari, Ali Arif Alshammari, and Abdulkarim Khalid Alshammari, College of Engineering, University of Hail, Hail, Saudi Arabia
Serhan Shaman Alshammari, Department of Industrial Engineering, College of Engineering, University of Hail, Hail, Saudi Arabia

ID 74 A Data-Driven Machine Learning Framework for Traffic Accident Cause Analysis and Road Safety Improvement
Abbas Jamal, Michele Cedolin, College of Engineering and Technology, American University of the Middle East, Kuwait

ID 174 Makespan Minimization on Unrelated Parallel Machine Scheduling Problem with Sequence-Dependent Setup Times and Availability Windows Using a GRASP Metaheuristic
Cristóbal Campos Aguilera, Jusbeth Zambrano Suárez and Mervyn Márquez Gómez, Industrial and Systems Engineering Institute, Universidad Austral de Chile, Valdivia, Chile

ID 268 Quantum-Induced Disruption of Classical Jurisprudential Paradigms: A Multi-Dimensional Historical Analysis of Stochastic Economic Modeling and the Legal Imperatives for Post-Quantum Operational Governance
Aarna Dwivedi, Student, Rick Reedy High School, Frisco, TX 75034, USA
Goutham Koppolu, Student, Centennial High School, Frisco, TX 75035, USA

ID 210 From Public Academic Profiles to Process Mining Event Logs: A Semi-Automated LLM-Based Pipeline
Sagit Kedem-Yemini, Logistics Department, Sapir Academic College, Sderot, Israel
Barak Eyal, Hadar Kadosh and Hadar Nitsan, Students at the Department of Industrial Engineering and Management, Ben Gurion University of the Negev, Be'er-Sheva, Israel

Undergraduate Research Competition sponsored by Daikin Applied - Online

ID 117 Optimizing Driver Performance: An AI-Powered Framework for Formula 1 Race Results
Moaza Almarri, B.Sc. in Computing and Information Systems Student, College of Engineering & Information Technology (CEIT), University of Dubai, Dubai, United Arab Emirates
Farah Al Nashash, B.Sc. in Computing and Information Systems Student, College of Engineering & Information Technology (CEIT), University of Dubai, Dubai, United Arab Emirates
Afra Fathima Anas, B.Sc. in Computing and Information Systems Student, College of Engineering & Information Technology (CEIT), University of Dubai, Dubai, United Arab Emirates
Carthika Sujith, B.Sc. in Computing and Information Systems Student, College of Engineering & Information Technology (CEIT), University of Dubai, Dubai, United Arab Emirates
Maisam Wahbah, Assistant Professor, College of Engineering & Information Technology (CEIT), University of Dubai, Dubai, United Arab Emirates

ID 180 INSPECTRA-X: AI-Powered Autonomous Industrial Inspection Framework
Sarah Aliouat, B.Sc. in Computing Engineering Student, College of Engineering and Information Technology (CEIT), University of Dubai, Dubai, United Arab Emirates
Maisam Wahbah, Assistant Professor, College of Engineering and Information Technology (CEIT), University of Dubai, Dubai, United Arab Emirates

ID 272 An Evaluation of Opportunities and Threats for Mine Management Optimization in The Era of AI and Advanced Analytics: A Case of Southern Africa Mining Sector
Valerie Pemberai Baya, Sustainable Technology Environmental Management Company, Harare, Zimbabwe
Musaida Mercy Manyuchi, Sustainability and Future Technologies Centre, Faculty of Engineering and Technology, University of South Africa, Pretoria, South Africa
Charles Mbohwa Charles, Sustainability and Future Technologies Centre, Faculty of Engineering and Technology, University of South Africa, Pretoria, South Africa
Walter Stinner, Germany Biomass Research Centre, Leipzig, Germany
Nita Sukdeo, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 319 AI Assisted Structural Analysis for a Multi-floor Building
Abu Huraira Atta Ullah, Industrial and Manufacturing Engineering, University of Engineering and Technology, Lahore, Pakistan
Muhammad Abdullah Tahir, Mechanical Engineering Department, Ghulam Ishaq Khan Institute of Engineering Sciences and Technology, Topi, Swabi, Pakistan
Hassam Ur Rehman, NUST School of Mechanical and Manufacturing Engineering, Islamabad, Pakistan
Anjum Ali, Former Professor of EE, FAST-NU, Lahore, Pakistan, Former Professor, ECE, KICS, UET, Lahore, Pakistan, Former Associate Professor of EE, Mercer University, MACON, GA, USA and Former Associate Professor of CSE, LUMS, Lahore, Pakistan

Senior Design Project / FYP Competition – Online

ID 63 Supply Chain Logistics and Distribution Network Design

Almira D. Akbay, Elias A. Badway, Isabella R. Cenani, Emma W. Ng, Matthew E. Suruadji and Jugal Garg, Department of Industrial and Enterprise Systems Engineering, University of Illinois at Urbana-Champaign, Urbana, Illinois, United States

ID 167 Design of a Salt Spray Test Chamber

Jamaloddin Jamali and Ahmad Ali Ahmadi, College of Engineering and Technology, American University of the Middle East, Kuwait

Simulation Competition - Online**ID 218 A Computational Simulation Model for EV Performance: Optimizing the Trade-offs Between Battery Mass, Aerodynamic Drag, and Structural Material Density**

Hillary Odongo Kelly, First year Student at The University of Nairobi, Nairobi, Kenya

Graduate Student Paper Competition Sponsored by EATON Corporation – Online**ID 192 A Multi-Criteria Sustainability Assessment Model for Micro-Infrastructure in Residential Areas: Evidence from Bekasi City, Indonesia**

Yenita, Carunia Mulya Firdausy and Ridho Bayuaji, Faculty of Engineering, Universitas Tarumanagara, West Jakarta, Indonesia

ID 308 Ambience-Aware Visual Inspection through Scenario Learning and Synthetic Digital Modeling: An Application to Kitting Operations

Francisco Alyf Fernandez de Castro Bobadilla and Roger J. Jiao, George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA, USA

Global Design Competition – Online**ID 18 A Growing Concern in Schools: School Violence**

Y Nguyễn THPT Đạm Ri, Vietnam

High School Competition – Online**ID 43 The Effect of Legume Cooking Water on Stain Removal**

Kaan Kavak, Preparatory Class Student, Ankara Private Beştepe Anatolian High School, Ankara, Turkey
Alp Aden Ortakaya, Preparatory Class Student, Ankara Private Beştepe Anatolian High School, Ankara, Turkey

ID 52 Pharmaceutical Micro-Pollutants in The Aquatic Environment: Ecological Risks and Innovative Methods Of Fermentative Remediation

Polina Savchuk, Lyceum No. 254, Ukraine
Oleksandr Severin, Doctor of Philosophy, Lyceum No. 254, Ukraine

ID 56 Lecture notes

Balnur Zhakypbek Individual Kazakhstan

ID 269 Predictive Power-Demand Modelling for Adaptive Street Lighting Using Random Forest Regression

Aditya Krishan Goel, The Shri Ram School, Aravali, Gurugram, Haryana, India

ID 330 An Optical Beverage Mixing Analytics Framework Integrating Machine Vision, Knowledge Graphs, and LLM-Based Reasoning

Jemilah Ha, Fulton Science Academy, Atlanta, Georgia, USA
Yiyun Fei and Roger Jiao, Mechanical Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA

Poster Competition - Online**ID 207 Enhancing Environmental Efficiency in Industrial Facilities Through a Multi-Dimensional ISO 14001-Based Methodology**

Wejdan Y. Al-Saif, Reema R. Thaqfan and Rimas A. Alshehri, Industrial Engineering Department, King Khalid University, Abha, Saudi Arabia

July 20, 2026 (Monday) - Session: 11:00 – 12:00**11:00 – 12:00, Monday****Virtual Zoom Room 7**

Session Chair: Omar Hassan Omar, Universiti Malaya, Kuala Lumpur, Malaysia

Zoom Host: Aqib Islam, IEOM Bangladesh

Human Factors, Ergonomics and Healthcare Systems**ID 189 Predicting Ceramic Tile Coefficient of Friction Using Gradient Boosting Algorithms: Implications for Quality Control and Manufacturing Safety**

Abdulrahman Othman, In-Ju Kim and Omar Hassan Omar, University of Sharjah, Sharjah, United Arab Emirates

ID 194 Portable Measurement Devices for Slip Risk Assessment: A Critical Gap Analysis and Design Requirements for a Next-Generation Device

Omar Hassan Omar, Department of Mechanical Engineering, Faculty of Engineering, PhD Candidate, Universiti Malaya, Kuala Lumpur, Malaysia

Nasrul Anuar Bin Abd Razak, Department of Biomedical Engineering, Faculty of Engineering, Associate Professor, Universiti Malaya, Kuala Lumpur, Malaysia
 Raja Ariffin Bin Raja Ghazilla, Department of Mechanical Engineering, Faculty of Engineering, Associate Professor, Universiti Malaya, Kuala Lumpur, Malaysia
 In-Ju Kim, Department of Industrial Engineering and Engineering Management, College of Engineering, Professor, University of Sharjah, UAE

ID 202 Directional Anisotropy in Ceramic Tile Slip Resistance: Implications for Measurement Standards and Quality Control
 Abdulrahman Othman, In-Ju Kim and Omar Hassan Omar, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, United Arab Emirates

ID 331 Modeling Post-Discharge Patient Recovery Journeys for Decision Support via Graph-Augmented Case Retrieval
 Yiyun Fei, Mulang Song, and Roger Jiao, Mechanical Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA

July 20, 2026 (Monday) - Session: 12:00 – 14:00

12:00 – 14:00, Monday

Virtual Zoom Room 7

Session Chair: Tatjana Tambovceva, Professor at Governance and Security Institute, Riga Technical University, Riga, Latvia
 Zoom Host: Aqib Islam, IEOM Bangladesh

Business Management and Operations Management

ID 57 A Conceptual Model for Defining Temporary Shelter Selection Criteria in Chemical Accidents
 Chavinthorn Maiyapakdee, Ph.D. Candidate, Department of Industrial Engineering, Faculty of Engineering, King Mongkut's University of Technology North Bangkok, Bangkok, 10800, Thailand
 Lecturer, Faculty of Public Health, Thammasat University, Pathumthani, 12120, Thailand
 Warapoj Meethom, Head, Department of Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, King Mongkut's University of Technology North Bangkok, Bangkok, 10800, Thailand

ID 185 The Role of Cost Transparency in Building Trust and Continuance Intention in FinTech Investment Platforms
 Adam Nugraha and Wilkin Andryan, Business School, Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia
 Enggal Sriwardiningsih, Business School, Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 196 AI-Driven Digital Twin Framework for Real-Time Ergonomic Risk Assessment and Adaptive Workstation Optimization in the Global IT Workforce
 Manish Gupta, Research Scholar, Lincoln University College, Petaling Jaya, Malaysia
 Oyyappan Duraipandi, Professor, Faculty of Business and Accountancy, Lincoln University College, Malaysia
 Kesava Reddy Chirra, Dean of Academic Affairs, University of Emerging Technologies, CA, USA

ID 317 A Quantitative Risk Management Framework for Economic Losses from Criminal Use of Unmanned Aerial Systems
 Andrejs Sisovs, PhD Student at Faculty of Engineering Economics and Management, Riga Technical University, Riga, Latvia
 Tatjana Tambovceva, Professor at Governance and Security Institute, Riga Technical University, Riga, Latvia

ID 327 Dynamic Safety Stock Estimation for Medical Supplies in Emergency Departments Using Simulation and Machine Learning
 Carlos Hernández, Jaime Castillo, Dafne Lagos, and Paola Leal, Departamento de Procesos Industriales, Universidad Católica de Temuco, Temuco, Chile

July 20, 2026 (Monday) - Session: 14:00 – 16:00

14:00 – 16:00, Monday

Virtual Zoom Room 7

Session Chair: Jonida Teta, Department of Production and Management, Polytechnic University of Tirana, Albania
 Zoom Host: Siyam Hasan, IEM, KUET, Bangladesh

Supply Chain and Logistics

ID 78 Supply Chain Finance as a Strategic Tool for Improving Liquidity and Operational Efficiency
 Jonida Teta, Dea Sinoimeri and Eralda Xhafka, Department of Production and Management, Polytechnic University of Tirana, Albania

ID 114 Formulating A Logistic DSS To Strengthen Emergency Unit Dispatch and Relief Distribution in Binan City Through Ahp And Iabc Algorithm
 Alnie Yasmien Lerpido, Polytechnic University of the Philippines – Biñan, Philippines

ID 128 Lean Logistics for Reverse Logistics Optimization in the Beverage Industry: A Simulation-Based Approach at EMBOL Cochabamba
 Lucia Ximena Vargas Montaña, Scientific Society of Students of Universidad Católica Boliviana, Cochabamba, Bolivia
 Ginamaria Garcia Garces, Head of Industrial Engineering Program, Universidad Católica Boliviana, Cochabamba, Bolivia
 Alejandro Natanzón Montaña, MBA, Industrial and Systems Engineer, Logistics Manager at Embol, Cochabamba, Bolivia

ID 299 Methods for Designing Synchromodal Transport Systems: A Comparative Analysis and Suitability Assessment for National Waterway-1, India
 Rudra Prakash Pradhan, Professor, Vinod Gupta School of Management, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India
 Aakriti Verma, Research Scholar, Ranbir and Chitra Gupta School of Infrastructure Design and Management, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India

ID 304 A Heuristic Logistics Prioritization Tool for Procured Material in Industrial Projects

Mohammed Ayed Aldossary, Senior Engineer, Upstream Gas Project Management, Saudi Aramco, Fadhili, Saudi Arabia
 Sultan Abdulrahman Alankari, Project Engineer, Upstream Gas Project Management, Saudi Aramco, Fadhili, Saudi Arabia

ID 328 Model to Reduce Food Waste in a Restaurant Using Demand Forecasting and MRP

Carlos Morales and Kevin Noel, Bachelor's degree in Industrial Engineering, University of Lima, Lima, Perú

July 20, 2026 (Monday) - Session: 16:00 – 18:00

16:00 – 18:00, Monday

Virtual Zoom Room 7

Session Chair: Kenneth Xu, Doctorate Pan-European Studies, University of Pula, Los Angeles, CA, USA
 Zoom Host: Dr. Nazrul Islam, IEOM Canada

Digital Manufacturing, Industry 4.0 and IoT

ID 107 Identifying and Prioritizing Critical Success Factors for Twin Transformation in Turkish SMEs: A Best-Worst Method Approach

Gülçin Büyükoğkan, Professor, Department of Industrial Engineering, Galatasaray University, Ortaköy, İstanbul, Türkiye
 Başak Çelik, Master Student, Department of Industrial Engineering, Galatasaray University, Ortaköy, İstanbul, Türkiye
 Research Assistant, Department of International Trade and Logistics, Kafkas University, Kars, Türkiye

ID 125 Digital Twins for Energy-Efficient Laser Powder Bed Fusion (LPBF): A Systematic Review

Dereje Geleta Oljira Wollega University, Ethiopia

ID 191 Analysis of the Implementation of a Data Integration System in Improving Operational Process Efficiency at a Television Advertising Agency in Jakarta

Bilal Said, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
 Enggal Sriwardiningsih, Binus Business School, Bina Nusantara University, Jakarta, Indonesia.

ID 124 From AI Pilot to Operating Discipline: A Dual-Loop Model for Throughput, Resilience, and Quality Control in Class II Medical Devices

Kenneth Xu, Doctorate Pan-European Studies, University of Pula, Los Angeles, CA, USA
 Markus Mau and Nick Vyas, Doctorate Pan-European Studies, University of Pula, United States

ID 285 An Assessment of Application of GIS and AI in Mining: Focus on Sub-Sahara Africa

Constance Mudyazhezha, Sustainable Technology Environmental Management Company, Harare, Zimbabwe
 Mercy Manyuchi, Sustainable Technology Environmental Management Company, Harare, Zimbabwe
 Charles Mbohwa, Sustainability and Future Technologies Centre, University of South Africa, Pretoria, South Africa
 Walter Stinner, Germany Biogas Research Centre, Biomass Research Centre, Leipzig, Germany
 Nita Sukdeo, Department of Quality and Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

July 20, 2026 (Monday) - Session: 18:00 – 20:00

18:00 – 20:00, Monday

Virtual Zoom Room 7

Session Chair: Rudra Prakash Pradhan, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India
 Zoom Host: Dr. Nazrul Islam, IEOM Canada

Case Studies and Best Practices

ID 205 From Classroom to Community Child-Centred Rural Transformation in the Indian Sundarbans Evidence from Participatory Action Research on Sagar Island, West Bengal, INDIA

Aparupa Bairagi, Research Student, Krishna Suchitra Memorial Centre for Rural Development & Research, Pupa, Sagarisland, West Bengal, India
 Amales Misra, Research Scientist, Krishna Suchitra Memorial Centre for Rural Development & Research, Pupa, Sagarisland, West Bengal, India

ID 208 Synchromodal Freight Transportation on Inland Waterways: European Lessons and an Implementation Framework for India's National Waterway-1 (Haldia-Sahibganj)

Rudra Prakash Pradhan, Professor, Vinod Gupta School of Management, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India
 Aakriti Verma, Research Scholar, Ranbir and Chitra Gupta School of Infrastructure Design and Management, Indian Institute of Technology Kharagpur, Kharagpur, West Bengal, India

ID 223 A study of Quality Perception in Automotive Parts Supplier Leadership comparing with ISO IATF 16949 requirements using Iramuteq Software

Anderson Belmiro Salvador, Student of University of Sao Paulo State, Guaratinguetá, São Paulo, Brazil

ID 253 Implementation of TPM, SMED and Standard Work to Improve OTIF in a Flexible Plastic Packaging Company

Alessandra Ivanna Salas Salazar y Luis Sebastián Vargas Sánchez, University of Lima, Faculty of Engineering, Lima, Peru
 Paul Angello Daniel Sanchez Soto, University of Lima, Faculty of Engineering, Lima, Peru
 Carlos Alberto Gálvez Zarate, University of Lima, Faculty of Engineering, Lima, Peru

Virtual - Day 2 (Tuesday, July 21)

July 21, 2026 (Tuesday) - Session: 8:00 – 10:00

8:00 – 10:00, Tuesday
Virtual Zoom Room 7

Session Chair: David Veloso-Castelló, Universitat Politècnica de València, Valencia, Spain

Zoom Host: Dr. Mizanur Rahman, IEOM Australia

Artificial Intelligence and Data Science - Online

ID 24 Time-Varying Connectedness in Iberian Energy Markets during 2022-2023

David Veloso-Castelló and J. Carlos García-Díaz, Department of Applied Statistics and Operational Research, and Quality, Universitat Politècnica de València, Valencia, Spain

ID 25 Nonstationary Volatility in the Spanish Electricity Market: A Time-Varying-GARCH Analysis

David Veloso-Castelló and J. Carlos García-Díaz, Department of Applied Statistics and Operational Research, and Quality, Universitat Politècnica de València, Valencia, Spain

ID 121 AI-Driven Decision Support Framework for Personalized Combination Cancer Therapy Optimization

Abir Al-Ahmad, Barcelona, Spain

ID 131 Evaluating the Impact of AI-Assisted Code Generation on Cloud Service Reliability

Atul Khanna, Enterprise Support Manager, AWS, Dallas, TX, USA

Abhishek Shukla, Sr Technical Account Manager, AWS, Brownsburg, Indiana, United States

ID 138 Artificial Intelligence Integration in Residential Energy Management: A Review

Thabo Khafiso, Department of Construction Management and Quantity Surveying, Faculty of Engineering and Built Environment, Durban University of Technology, KwaZulu-Natal, South Africa

ID 188 MudraNet: A Multi-Stage Deep Learning Framework for India Currency Detection

Shantanu Sen, Research Scholar, Department of Mechanical Engineering, Indian Institute of Technology (BHU), Varanasi, India

Cherian Samuel, Associate Professor, Department of Mechanical Engineering, Indian Institute of Technology (BHU), Varanasi, India

Nikhil, UG, Department of Mechanical Engineering, Indian Institute of Engineering Science and Technology (IIST) Shibpur, Howrah, India

Raja Bhavesh, IDD, Department of Mechanical Engineering, Indian Institute of Technology (BHU), Varanasi, India

ID 200 Artificial Intelligence and the Dominion Mandate: Reimagining Africa's Role in the Next Technological Revolution

Linda Otoo, Assistant Lecturer, Department of Computer Science and Information Technology, University of Cape Coast, Cape Coast, Ghana

July 21, 2026 (Tuesday) - Session: 10:00 – 12:00

10:00 – 12:00, Tuesday
Virtual Zoom Room 7

Session Chair: Marin M. Nanje, University of Nairobi, Nairobi, Kenya

Zoom Host: Aqib Islam, IEOM Bangladesh

Sustainability, Green Systems and Energy

ID 61 Mapping ESG Archetypes in Fashion Companies: A Data-Driven Cluster Analysis of Sustainability Strategies

Berat Sanem Altıntop, Galatasaray University, Türkiye

ID 62 ESG Archetypes in Global Fashion Firms: A Data-Driven Cluster Analysis

Murat Levet Demircan and Berat Sanem Altıntop, Galatasaray University, Türkiye

ID 123 Hybrid Solar-Wind Smart Irrigation for Smallholder Farms in Kenya: System Design and Performance Analysis

Marin M. Nanje, Department of Environmental and Biosystems Engineering, University of Nairobi, Nairobi, Kenya

ID 127 Water Consumption Optimization and Washing Procedure Standardization in a Liquid Home Care Production Plant

Fabiola Evelyn Vargas Villarroel, Scientific Society of Students, Universidad Católica Boliviana, Cochabamba, Bolivia

Marcos Luis Luján Pérez, Research Faculty, Industrial Engineering, Universidad Católica Boliviana, Cochabamba, Bolivia

Mgr. Ginamaria García Garces, Director, Industrial Engineering Program, Universidad Católica Boliviana, Cochabamba, Bolivia

ID 135 Evaluating the Role of Electric Vehicles in Grid Modernization and Renewable Energy Sources Integration for a Decarbonized South African Power Grid

Anesu Charamba, Department of Mechatronics, School of Engineering Sciences and Technology, Chinhoyi University of Technology, Chinhoyi, Zimbabwe

July 21, 2026 (Tuesday) - Session: 12:00 – 14:00**12:00 – 14:00, Tuesday****Virtual Zoom Room 7**

Session Chair: Ashraful Alam Limon, Walker College of Business, Appalachian State University, Boone, North Carolina, USA
 Zoom Host: Aqib Islam, IEOM Bangladesh

Engineering Management and Project Management**ID 108 AI Exposure and the Value of Human Skills in Project Management: Evidence from Albanian Professionals**

Eralda Xhafka, Department of Production and Management, Polytechnic University of Tirana, Albania
 Valentina Ndou, Department of Engineering for Innovation, University of Salento, Italy
 Jonida Teta, Department of Production and Management, Polytechnic University of Tirana, Albania

ID 144 Improving Order Fulfillment for an Ice Cream Company by Applying Sales and Operations Planning (S&OP) and MRP

Alonzo Rafael Alvarez Casas, Marcelo Limo Aita and José Antonio Taquíá Gutiérrez, Carrera de Ingeniería Industrial, Universidad de Lima
 Lima, Peru

ID 193 Hybrid Machine Learning Framework for Predictive Maintenance in Smart Manufacturing Using Sensors

Sk. Humain Ahmed, Debashish Debnath and Bishwajit Saha, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka- 1000, Bangladesh
 Ashraful Alam Limon, Walker College of Business, Appalachian State University, Boone, North Carolina, 28608, USA
 Md. Nasif Hasan, Department of Naval Architecture and Marine Engineering, BUET, Dhaka- 1000, Bangladesh

ID 273 Process Improvement to Increase Productivity in a Food Processing Company Using Work Standardization and SLP

Jimena Alessandra Córdova Mendez, Angela Yuriko Segami Kanashiro and María Teresa Noriega Aranibar De Lavalle, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú

ID 303 New findings on cost-duration relationships in projects

Moshe Eben-Chaime, Department of Industrial Engineering & Management, Ben Gurion University of the Negev, Israel

July 21, 2026 (Tuesday) - Session: 14:00 – 16:00**14:00 – 16:00, Tuesday****Virtual Zoom Room 7**

Session Chair: Nicole K. Piti, Department of Mechatronics, Chinhoyi University of Technology, Chinhoyi, Zimbabwe
 Zoom Host: Siyam Hasan, IEM, KUET, Bangladesh

Automation, Robotics and Autonomous Systems**ID 115 Adaptive Neuro-Fuzzy Inference System-Based Predictive Maintenance and Remaining Useful Life Estimation for Industrial Air Compressors: A Case Study of Delta Beverages**

Nicole K. Piti, Department of Mechatronics, Chinhoyi University of Technology, Chinhoyi, Zimbabwe
 Doubt Simango, Department of Mechatronics, Chinhoyi University of Technology, Chinhoyi, Zimbabwe
 Anesu N. Charamba, Department of Mechatronics, Chinhoyi University of Technology, Chinhoyi, Zimbabwe

ID 220 Overview of Automation Technologies in Small and Medium Enterprises: Bibliometric Analysis

Semanga Mabuza, Department of Quality & Operations Management, Faculty of Engineering & Built Environment, University of Johannesburg, Johannesburg, South Africa
 Takalani Tshabalala, Department of Quality & Operations Management, Faculty of Engineering & Built Engineering, University of Johannesburg, Johannesburg, South Africa
 Nita Sukdeo, Department of Quality & Operations Management, Faculty of Engineering & Built Engineering, University of Johannesburg, Johannesburg, South Africa

ID 302 Smart TV remote Alert

Excellent Hlebelo, The Institute of Scientific Solutions Africa, South Africa

ID 333 A Low-Cost and Scalable Multi-Sensor Based IoT Framework for Industrial Machine Condition Monitoring and Cloud-Based Early Fault Detection

Ratul Anick Paul, Deputy Manager, Engineering Operations, Renata PLC (formerly Pfizer Bangladesh Ltd), Rajendrapur, Gazipur, Bangladesh
 Fahima Tabassum, Institute of Information Technology, Jahangirnagar University, Savar, Dhaka, Bangladesh

July 21, 2026 (Tuesday) - Session: 16:00 – 18:00**16:00 – 18:00, Tuesday****Virtual Zoom Room 7**

Session Chair: Daisy Valle Enrique, University of Beira Interior, Covilhã, Castelo Branco, Portugal
 Zoom Host: Dr. Nazrul Islam, IEOM Canada

Supply Chain Management and Logistics**ID 109 Disruption Scenarios and Resilience Assessment Techniques for Additive Manufacturing-Enabled Spare Parts Supply Chains**

Muhammad Fahad Sheikh, Majed Hadid and Laoucine Kerbach, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Qatar Foundation, Doha, Qatar

ID 140 A Hybrid Data-Driven Approach for Optimizing Last-Mile Logistics in an Electrical Products Company Using K-Means Clustering and the Clarke-Wright Savings Algorithm

Dyessa Mancia, Noime B. Fernandez and Venusmar Quevedo, Graduate School / College of Engineering / Management Engineering Program Adamson University, Manila, Philippines

ID 176 Improvement of the Service Level Through the Implementation of MRP and MPS in a Peruvian Infusion Company

Kelly Ximena Aliaga De la Oliva y Sofia Victoria Lugo Coral, Universidad de Lima, Facultad de Ingeniería, Lima, Peru
Paul Angello Daniel Sanchez-Soto y Carlos Alberto Galvez Zarate, Universidad de Lima, Facultad de Ingeniería, Lima, Peru

ID 215 Artificial Intelligence Capabilities and Supply Chain Resilience in Manufacturing SMEs: An Empirical Framework for Emerging Economies

Shubham Keshari, Indian Institute of Information Technology, Allahabad, India

ID 252 Coverage Adequacy as an Alternative to Demand Forecasting for Aftermarket Spare Parts: The DNEIF Framework

Arjun Pardasani, Independent Researcher, United States

ID 266 Optimization of Spare Parts Inventory Management for Telescopic Forklift Maintenance in Port Operations

Emanuel Tiago Alves Rodrigues, Master Student, Faculty of Engineering, University of Beira Interior, Covilhã, Castelo Branco, Portugal
Daisy Valle Enrique, Assistant Professor, CMAST – Center for Mechanical and Aerospace Science and Technologies, Faculty of Engineering, University of Beira Interior, Covilhã, Castelo Branco, Portugal

July 21, 2026 (Tuesday) - Session: 18:00 – 120:00

18:00 – 20:00, Tuesday

Virtual Zoom Room 7

Session Chair: Oludolapo A. Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa
Zoom Host: Dr. Nazrul Islam, IEOM Canada

Lean Six Sigma and Operations Excellence

ID 19 Data-Driven Portfolio and Regional Performance Analysis (StellarMart Retail Dataset Sample)

Keabetsoe Manosa, BSc Chemical Engineering Student, Mersin University, Türkiye

ID 129 Optimize Green Supply Chain Efficiency Via Scheduling EV Battery System Charge Through Renewable and Wasted Energy Sources

Ahmed M. Abed, Department of Industrial Engineering, College of Engineering, Prince Sattam Bin Abdulaziz University, Al Kharj, Saudi Arabia
Industrial Engineering Department, Faculty of Engineering, Zagazig University, Zagazig 44519, Egypt
Ali AlArjani, Department of Industrial Engineering, College of Engineering, Prince Sattam Bin Abdulaziz University, Al Kharj 16273, Saudi Arabia
Laila F. Seddek, Department of Mathematics, College of Science and Humanities in Al-Kharj, Prince Sattam Bin Abdul-Aziz University PO 11942, Saudi Arabia
Tamer S. Gaafar, Computer and Systems Department, Zagazig University, Egypt

ID 173 Sample-Level Quality Gate Modelling and FMEA Prioritisation of Lateritic Borrow Soils for Pavement Subgrade Operations: An IE/OM Approach

Damilola G. Bobola, Department of Civil Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria
Adeyemi B. Fajobi, Department of Civil Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria
Oladeji O. Ige, Department of Materials Science and Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria
Department of Industrial Engineering, Durban University of Technology, Durban, South Africa
Institute of System Science, Durban University of Technology, Durban, South Africa
Oludolapo A. Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa
Institute of System Science, Durban University of Technology, Durban, South Africa

ID 183 Optimizing Tissue Quality Control through Lean Six Sigma: Basis for the Design and Development of an Image Processing System for Defect Detection at a Tissue Converting

John Michael G. Mendoza, Master of Engineering in Industrial Engineering, Lyceum of the Philippines University-Laguna, Philippines
Ryan Jeffrey P. Curbano, Adviser

Virtual - Day 3 (Wednesday, July 22)

July 22, 2026 (Wednesday) - Session: 8:00 – 10:00

8:00 – 10:00, Wednesday

Virtual Zoom Room 7

Session Chair: Sunil Chopra, Kellogg School of Management, Northwestern University, Evanston, Illinois, USA
Zoom Host: Mizanur Rahman, IEOM Australia

Simulation, Optimization and Circular Economy

ID 49 Implementation of Standardized Work and Planned Maintenance to Improve Productivity in A Metalworking Industry

Rafaela Fernandini Erazo, and Alonso Serida Matsumoto, Industrial Engineer, University of Lima, Lima, Peru
 Maria Teresa Noriega-Aranibar, Industrial Engineer Professor, Process Improvement Expert, University of Lima, Lima, Peru

ID 111 A Scalable Optimization Model for Workforce Planning in X-Ray Modality

Talal Aladaileh, School of Systems Science and Industrial Engineering, Binghamton University, Binghamton, NY, USA
 Annajirao Challa, School of Systems Science and Industrial Engineering, Binghamton University, Binghamton, NY, USA
 Performance Improvement, TidalHealth, Salisbury, MD, USA
 Wen Cao, Performance Improvement, TidalHealth, Salisbury, MD, USA
 Mohammad T. Khasawneh, School of Systems Science and Industrial Engineering, Binghamton University, Binghamton, NY, USA

ID 126 Statistical Approaches to Determining the Gerrymandering of Political District Maps

Sunil Chopra, Kellogg School of Management, Northwestern University, Evanston, Illinois, USA
 Noah Lee, Department of Computer Science, Purdue University, West Lafayette, Indiana, USA
 Hyunwoo Park, Graduate School of Data Science, Seoul National University, Seoul, Republic of Korea
 Sangho Shim, School of Engineering, Mathematics and Science, Robert Morris University, Moon Township, PA 15108, USA

ID 195 Application of System Dynamics in the Reduction of Process Spoilage: Can Manufacturing Case Study

Thapelo Tsheoga, Student, Master of Industrial Engineering, University of Johannesburg, South Africa
 Partson Dube, Lecturer, School of Mechanical and Industrial Engineering, University of Johannesburg, South Africa

ID 222 A Response Surface Methodology Approach for Modelling Heat Transfer Enhancement in Evacuated Tube Heat Pipe Solar Collectors integrated with Internal Inserts

Vuyo S Katiya, Mangosuthu University of Technology, Umlazi, Durban, South Africa
 J Mukuna, Mangosuthu University of Technology, Umlazi, Durban, South Africa

ID 305 Production Management Model Based on Lean Manufacturing Tools and SLP to Increase Productivity in a Meatball (BARF) Plant

Maria Clara Orellana Vazconez, Industrial Engineering Department, Universidad de Lima, Lima, Peru
 Fabiana Almendra Villa Huamaní, Industrial Engineering Department, Universidad de Lima, Lima, Peru
 Rafael Mauricio Villanueva Flores, Associate Professor, Industrial Engineering Department, Universidad de Lima, Lima, Peru
 Roberto Alexander Minaya Villavicencio, Associate Professor, Industrial Engineering Department, Universidad de Lima, Lima, Peru

July 22, 2026 (Wednesday) - Session: 10:00 – 12:00**10:00 – 12:00, Wednesday****Virtual Zoom Room 7**

Session Chair: Maryam ZOUHRI, Modeling and Optimization of Industrial Systems (MOSI), ENSAM – UMI, Meknes, Morocco
 Zoom Host: Aqib Islam, IEOM Bangladesh

Quality, Reliability and Maintenance**ID 246 Multi-Stage Distributionally Robust Optimisation of Hybrid Hydrogen Transition Planning in African Multi-Energy Systems**

Oladeji O Ige, Department of Materials Science and Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria
 Department of Industrial Engineering, Durban University of Technology, Durban, South Africa
 Institute of System Science, Durban University of Technology, Durban, South Africa
 Department of Electrical Engineering and Automation, Aalto University, Helsinki, Finland
 Zhengmao Li, Department of Electrical Engineering and Automation, Aalto University, Helsinki, Finland
 Oludolapo A Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa
 Institute of System Science, Durban University of Technology, Durban, South Africa

ID 249 Comparative Techno-Economic Assessment of Energy Storage Technologies in Nigeria

Allu Ayobami John, Industrial and Production Engineering, University of Ibadan, Ibadan, Nigeria

ID 254 Green Slotting: A Hybrid Machine Learning and Optimization Approach to Reduce Picker Travel and Carbon Emissions

Ananya Halder, Shimanto Kumar Anik and Pratim Dash, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh
 Suvrojit Chanda, Department of Mechanical Engineering, Military Institute of Science and Technology, Dhaka, Bangladesh

ID 306 From actual Quality 4.0 maturity level in industry to transition to Quality 5.0 model

Maryam ZOUHRI, Modeling and Optimization of Industrial Systems (MOSI), ENSAM – UMI, Meknes, Morocco
 Oumaima BOUNOU, IEST team, Artificial Intelligence, Data Technologies, and Modeling (AIDTM) laboratory, ENSAM – UMI, Meknes, Morocco
 Chaymae TARAA, Afaf DADDA and Latifa EZZINE, Modeling and Optimization of Industrial Systems (MOSI), ENSAM – UMI, Meknes, Morocco

July 22, 2026 (Wednesday) - Session: 12:00 – 14:00**12:00 – 14:00, Wednesday****Virtual Zoom Room 7**

Session Chair: Allu Ayobami John, Industrial and Production Engineering, University of Ibadan, Ibadan, Nigeria
 Zoom Host: Aqib Islam, IEOM Bangladesh

Sustainability, Green Systems and Energy**ID 246 Multi-Stage Distributionally Robust Optimisation of Hybrid Hydrogen Transition Planning in African Multi-Energy Systems**

Oladeji O Ige, Department of Materials Science and Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria
 Department of Industrial Engineering and Institute of System Science, Durban University of Technology, Durban, South Africa

Department of Electrical Engineering and Automation, Aalto University, Helsinki, Finland

Zhengmao Li, Department of Electrical Engineering and Automation, Aalto University, Helsinki, Finland

Oludolapo A Olanrewaju, Department of Industrial Engineering and Institute of System Science, Durban University of Technology, South Africa

ID 249 Comparative Techno-Economic Assessment of Energy Storage Technologies in Nigeria

Allu Ayobami John, Industrial and Production Engineering, University of Ibadan, Ibadan, Nigeria

ID 254 Green Slotting: A Hybrid Machine Learning and Optimization Approach to Reduce Picker Travel and Carbon Emissions

Ananya Halder, Shimanto Kumar Anik, and Pratim Dash, Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

Suvrojit Chanda, Department of Mechanical Engineering, Military Institute of Science and Technology, Dhaka, Bangladesh

ID 137 Assessment of The Adoption of Sustainable Construction Practices: Professionals' Perspective

Thabo Khafiso, Department of Construction Management & Quantity Surveying, Faculty of Engineering and the Built Environment, Durban University of Technology, Kwazulu-Natal, South Africa

ID 270 Affordable Nutrition vs. Food Waste: Bridging the Gap and Investigating a Local Contradiction - PROJECT MERAKI

Mrihti Meghna Venkatramanan, Grade 12, DPS Modern Indian School, Qatar

ID 274 Renewable Energy Options for A Decentralised Grid Development in Lagos State, Nigeria: A Systematic Literature Review.

Allu Ayobami John, Industrial and Production Engineering, University of Ibadan, Ibadan, Nigeria

Irewole Sofowara, Information Technology, National Open University of Nigeria

David Osigwe, Computer Engineering, University of Benin, Nigeria

July 22, 2026 (Wednesday) - Session: 14:00 – 16:00

14:00 – 16:00, Wednesday

Virtual Zoom Room 7

Session Chair: Scelo Mhlango, Durban University of Technology, KwaZulu-Natal, South Africa

Zoom Host: Siyam Hasan, IEM, KUET, Bangladesh

Engineering Education and Curriculum Improvement

ID 143 Drivers for the Skills Shortages in the Construction Industry: A Case in Gauteng

Moyahabo Maake, Thabo Khafiso and Scelo Mhlango, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, Durban University of Technology, KwaZulu-Natal, South Africa

Lean and Plant Layout

ID 301 Plant Layout Analysis for an Athletic Club

Paola Herrera Rivera, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI 48075, USA

ID 325 A multiple-case study using Value Stream Mapping and discrete-event simulation to evaluate Lean Construction improvement scenarios in three Paraguayan construction processes

Fabrizio Recalde-Rivas, Ana-Pamela Arévalos, Camilo Benitez, Oliver Desvars, and Andrea Insfran-Rivarola, Production and Methods Laboratory of the Industrial Engineering Department, Facultad de Ingeniería, Universidad Nacional de Asunción, San Lorenzo 2160, Paraguay

Carlos Osorio, Civil Engineering Department, Facultad de Ingeniería, Universidad Nacional de Asunción, San Lorenzo 2160, Paraguay

Diego Rossit, Department of Engineering, INMABB, Universidad Nacional del Sur (UNS)-CONICET, Argentina

Matías Lopez, Faculty Member, Logistics Engineering and Data Engineering and Artificial Intelligence Programs, Technological University of Uruguay (UTEC), Northern Regional Technological Institute, Rivera, Uruguay

July 22, 2026 (Wednesday) - Session: 16:00 – 18:00

16:00 – 18:00, Wednesday

Virtual Zoom Room 7

Session Chair: Marlene Amorim, University of Aveiro, Aveiro, Portugal

Zoom Host: Dr. Nazrul Islam, IEOM Canada

Business Management and Operations Management

ID 204 Designing Culturally Resonant Virtual Influencers: Identifying Customer Requirements Using QFD Approach

Neeti Manpota, Vinod Gupta School of Management, Indian Institute of Technology Kharagpur, India

Sangeeta Sahney, Professor, Vinod Gupta School of Management, Indian Institute of Technology Kharagpur, India

ID 209 Analysis of Aircraft and Instructor Utilization Efficiency on The Operational Performance of Flight Schools

Arbez Syfausy Syauqi, Management Department, Bina Nusantara University, Jakarta, Indonesia

ID 283 From Online Reviews to Workplace Design: An LLM-Based Framework for Assessing Coworking Space

Ana Luís Alves, Lia Morais, Maria Rodrigues, and Matilde Rocha, Department of Economics Management Industrial Engineering and Tourism University of Aveiro, Aveiro, Portugal

Marlene Amorim, Associate Professor, GOVCOPP & Department of Economics Management Industrial Engineering and Tourism, University of Aveiro, Aveiro, Portugal

Artificial Intelligence and Data Science

ID 271 Mapping the Evolution of Artificial Intelligence in Healthcare: A Bibliometric and Topic Modelling Study Using Latent Dirichlet Allocation

Piyusha Vaibhav Ambradkar, Department of PhD in Management, K J Somaiya Institute of Management, Somaiya Vidyavihar University, Mumbai, Maharashtra, India

ID 282 Quality and Reliability Auditing of Multimodal AI Systems: Explanation Faithfulness, Failure Prediction, and Calibration in Deepfake Detection

Md Anas Biswas, School of Computing, University of Portsmouth, Portsmouth, PO1 2UP, United Kingdom

ID 307 Corrective and Preventive Maintenance using Computational Intelligence, Heuristics, and a Multidisciplinary Approach

Thato Tshepang Sekgoele, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 332 A Causal Bayesian Framework for Data-driven Post-discharge Recovery Management

Yiyun Fei and Roger Jiao, Mechanical Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA
Jemilah Ha, Fulton Science Academy, Atlanta, Georgia, USA

July 22, 2026 (Wednesday) - Session: 18:00 – 120:00

18:00 – 20:00, Wednesday

Virtual Zoom Room 7

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

Zoom Host: Dr. Nazrul Islam, IEOM Canada

Sustainability, Green Systems and Energy

ID 172 Industrial Potential of Zinc-Modified Recycled Aluminium Profile Scraps for Sustainable Engineering Applications

Lasisi E Umore, Department of Materials Science and Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria
Dolapo F. Awoyemi, Department of Materials Science and Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria
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Oladeji O Ige, Department of Materials Science and Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria
Institute of System Science and Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

ID 199 A Predictive Framework for Crop Health Assessment Using Time-Series Models and Machine Learning Under Climate Variability

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

ID 206 Mandatory Sustainability Disclosure as Organisational Transformation: Evidence from the Transition to IFRS S1 and S2

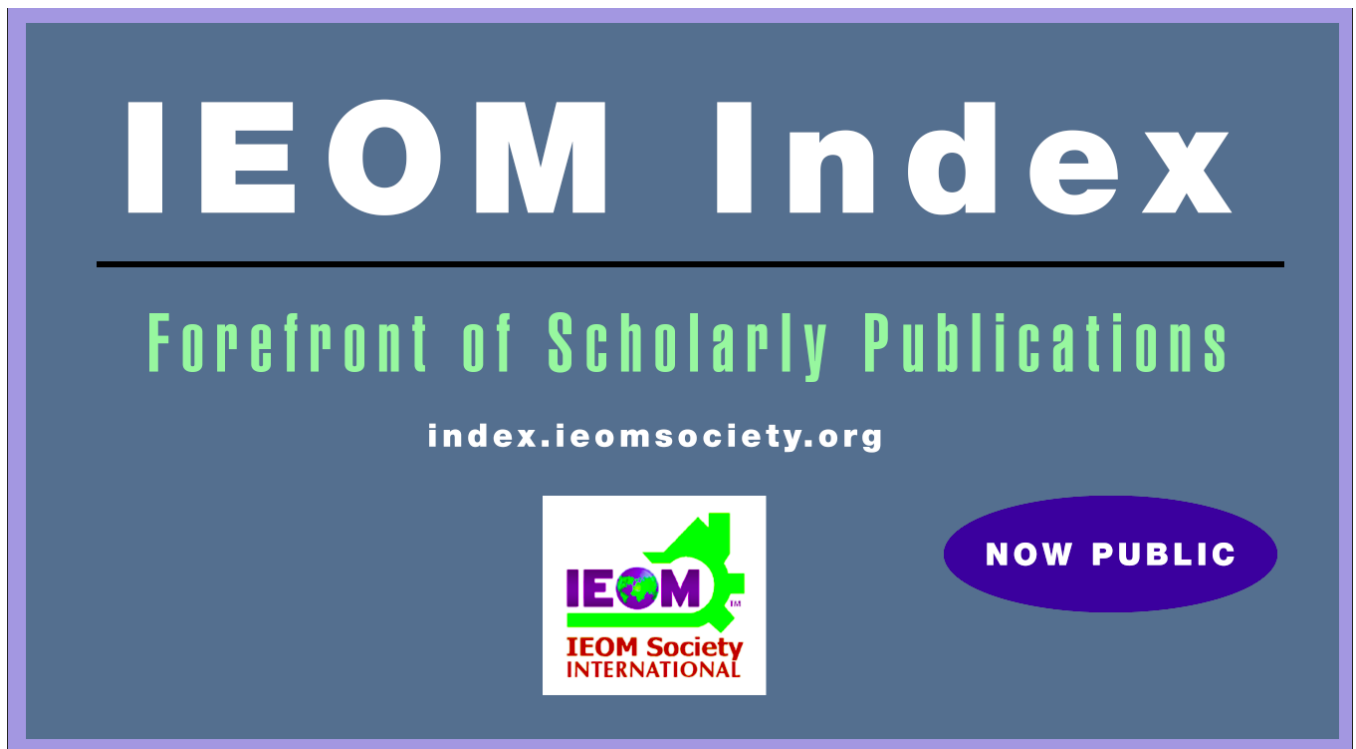
Satoko Yamazaki, Graduate School of Business Administration, Hosei University, Japan
Hirotugu Kitada, Associate Professor, Faculty of Business Administration, Hosei University, Japan

ID 211 Towards Green Fleet Maintenance: A Systematic Review of Machine Learning Approaches for Component Failure Prediction in Heavy-Duty Vehicles with Cost-Sensitive and Explainability Perspectives

Suvrojit Chanda, Ananya Halder and Shimanto Kumar Anik, Department of Mechanical Engineering, Military Institute of Science and Technology, Dhaka, Bangladesh
Department of Industrial and Production Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh

ID 286 An Assessment of Current Trends in Biomining Technologies and Sustainability: Focus on Southern Africa

Mujuru Gamuchirai Mercy, Sustainable Technology Environmental Management Company, Harare, Zimbabwe
Manyuchi Musaidi Mercy, Sustainability and Future Technologies Centre, Faculty of Engineering and Technology, University of South Africa
Mbohwa Charles, Sustainability and Future Technologies Centre, Faculty of Engineering and Technology, University of South Africa, South Africa
Stinner Walter, 3Germany Biomass Research Centre, Leipzig, Germany
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78. University of Ghana

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79. Accra Technical University

Haiti

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83. Guru Nanak Dev Engineering College
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87. Vidya Jyothi Institute of Technology, Hyderabad
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89. National Institute of Technology (NIT), Warangal
90. Jawaharlal Nehru Technological University Hyderabad
91. IITS, India
92. Birla Institute of Tech & Sciences (BITS Pilani)
93. Amrita School of Business – Bangalore
94. Amrita school of Arts and Sciences, Mysuru
95. Amrita School of Business, Coimbatore
96. Aligarh Muslim University, Aligarh
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98. Baba Banda Singh Bahadur Eng College
99. Ramaiah University of Applied Sciences
100. Nawab Shah Alam Khan College Eng & Tech (NSAKCET)
101. Global Institute Of Eng and Technology, Hyderabad
102. VNR Vignana Jyothi Institute of Eng and Technology
103. Siddhartha Institute of Engineering & Technology
104. Osmania University – The University College of Eng
105. VJTI Mumbai – Veermata Jijabai Technologic. Institute
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107. AKTU University, Kanpur, India
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109. Methodist College of Engineering and Technology

110. Vardhaman College of Engineering
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112. B. V. Raju Institute of Technology, Vishnupur, Narsapur
113. Anjuman College of Engineering and Technology
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115. HITAM - Hyderabad Institute of Technology and Management
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117. Siddaganga Institute of Technology, Tumakuru, Karnataka

Indonesia

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121. Institut Teknologi Sepuluh Nopember (ITS)
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126. Universitas Diponegoro (Undip)
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132. University of Indonesia
133. Universitas Sumatera, Utara Medan
134. Narotama University, Surabaya
135. Universitas Pakuan, Bogor
136. Trilogi University
137. Universitas Muhammadiyah Riau
138. Universitas Muhammadiyah Palembang
139. Universitas Putera Batam, Kepulauan Riau

Ireland

140. Atlantic Technological University

Iran

141. MehrAstan University, Guilan
142. University of Eyvanekey
143. Technical and Vocational University (TVU)
144. University of Tehran

Iraq

145. Babylon University

Israel

146. Sapir Academic College
147. Shamoon College of Engineering (SCE), Ashdod

Italy

148. University of Bologna
149. University of Salento

Japan

150. Ashikaga University
151. Gunma University

Jordan

152. Hashemite University

Kenya

153. Kenyatta University, Nairobi

Kuwait

154. Gulf University of Science and Technology

Libya

155. Libyan Academy

Malaysia

156. Universiti Malaysia Sabah (UMS)
157. Universiti Putra Malaysia (UPM)
158. Universiti Teknologi Malaysia (UTM)
159. Universiti Tun Hussein Onn Malaysia (UTHM)
160. Universiti Utara Malaysia (UUM)
161. University of Malay (UM)

IEOM Student Chapters around the World

Mexico

162. Instituto Politécnico Nacional (IPN), Mexico
163. Universidad del Caribe, Cancun
164. Tecnológico de Monterrey, Campus Monterrey
165. Universidad Industrial de Santander
166. Universidad Iberoamericana
167. Universidad de Guanajuato
168. UJED, Mexico (#297)

Morocco

169. Akhawayn University
170. Ecole Mohammadia d'Ingénieurs (EMI)
171. Sidi Mohamed Ben Abdellah University of Fez
172. N. School of Appl Sci. Kenitra, Ibn Tofail Univ
173. Ecole Supérieure De Technologie, Fez
174. INPT

Mozambique

175. Eduardo Mondlane University

Namibia

176. National Univ. of Sci. and Tech. in Windhoek

Nepal

177. Kathmandu University
178. Tribhuvan University

Nigeria

179. Covenant University
180. University of Ibadan
181. University of Nigeria, Nsukka
182. University of Benin
183. Olabisi Onabanjo University

Oman

184. SQU - Sultan Qaboos University
185. MEC - Middle East College
186. GCET – Global College of Engineering and Technology

Pakistan

187. Dawood University of Eng and Technology, Karachi
188. Government College University Faisalabad
189. Mehran University of Eng and Tech, Jamshoro, Sindh
190. Riphah International University, Lahore Campus
191. University of Engineering and Technology, Lahore
192. UOT – Nowshera
193. Information Technology Univ. of the Punjab, Lahore
194. Sindh Institute of Management & Technology (SIMT), Karachi
195. NED University of Engineering & Technology, Karachi

Panama

196. Quality Leadership University (QLU) - #298
197. ULatina

Papua New Guinea

198. Papua New Guinea University of Technology

Paraguay

199. National University of Asuncion
200. Universidad del Cono Sur de las Américas
201. Colegio Técnico Nacional, Asunción

Peru

202. National Univ of San Antonio Abad, Cusco
203. Universidad de Lima (ULima)
204. Universidad Peruana de Ciencias Aplicadas (UPC)
205. Universidad Ricardo Palma (URP)
206. Pontificia Universidad Católica del Perú (PUCP)
207. Universidad Privada del Norte (UPN)
208. Universidad Continental (UContinental)
209. Universidad de Ingeniería y Tecnología (UTEC)
210. Universidad Nacional de Ingeniería (UNI)
211. University of San Martin de Porres (USMP)
212. Universidad Nacional Tecnológica de Lima Sur

213. Universidad Nacional de San Agustín de Arequipa

Philippines

214. Bulacan State University, Malolos City, Bulacan
215. LPU Laguna
216. Mapua University
217. De La Salle University (DLSU) Manila
218. Adamson University
219. CEBU Technological University
220. University of San Jose-Recoletos
221. Quezon City University
222. De La Salle Lipa

Portugal

223. ISEL – Instituto Superior De Engenharia de Lisboa
224. FCT NOVA

Puerto Rico

225. Polytechnic University of Puerto Rico

Qatar

226. Qatar University
227. Hamad bin Khalifa University, Doha

Saudi Arabia

228. Alfaisal University
229. Effat University
230. King Abdulaziz University (KAU)
231. King Abdulaziz University, Rabigh
232. King Fahd University of Petroleum and Minerals (KFUPM)
233. King Khalid University, Abha
234. King Saud University (KSU)
235. Umm Al-Qura University (UQU)
236. Princess Nourah University (PNU)
237. Prince Sattam Bin Abdulaziz University
238. Prince Sultan University (PSU)
239. Taibah University
240. University of Tabuk
241. Taibah University
242. University of Business and Technology
243. King Khalid University, Abha
244. University of Bisha
245. Taif University
246. Al-Yamamah University
247. Al-Yamamah University, Al Khobar
248. Mustaqbal University
249. AlMaarefa University, Riyadh
250. Islamic University of Madinah

Singapore

251. SUSS

South Africa

252. Durban University of Technology (DUT)
253. Tshwane University of Technology (TUT)
254. University of Johannesburg (UJ)
255. University of South Africa (UNISA)
256. Vaal University of Technology (VUT)
257. CPUT

Sri Lanka

258. University of Kelaniya
259. University of Peradeniya

Sudan

260. Sudan University of Science and Tech Khartoum

Thailand

261. Chulalongkorn University, Bangkok
262. Chiang Mai University

Turkey

263. Turkish-German University
264. Uskudar University

UAE

265. University of Science & Technology of Fujairah

UK

266. University of Derby
267. University of the West of England, Bristol

USA

268. Central Connecticut State University
269. Eastern Michigan University
270. Lawrence Technological University, Michigan
271. University of the District of Columbia
272. Indiana State University
273. Florida Polytechnic University
274. Buffalo State College
275. Southern Arkansas University
276. Western Michigan University
277. Loyola University Chicago
278. Minnesota State University, Mankato
279. Central State University
280. University of Central Florida
281. Minnesota State University, Mankato
282. University of Texas – San Antonio (UTSA)
283. Capitol Technological University
284. Frostburg State University
285. Business School of Southern Arkansas University
286. Binghamton University State University of New York City
287. Georgia Tech (# 296)

Venezuela

288. Catholic University Andrés Bello, Caracas

Vietnam

289. CFVG, Ho Chi Minh City, Vietnam

Zambia

290. University of Zambia
291. Copperbelt University
292. Evelyn Hone College

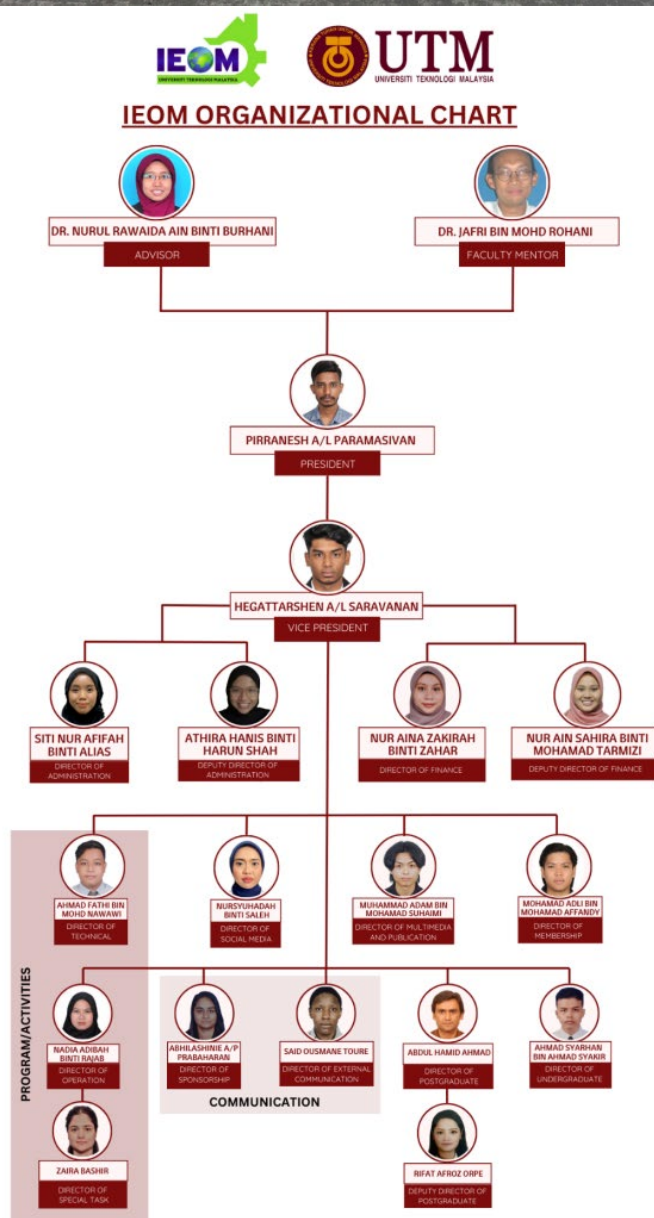
Zimbabwe

293. University of Zimbabwe, Harare
294. National University of Science and Technology
295. Harare Institute of Technology (HIT)
296. Women's University in Africa (WUA)
297. Chinhoyi University of Technology (CUT)

High School Chapters

298. Bay Area of San Francisco & San Jose, CA
299. Arongghata, Khulna, Bangladesh
300. Ironwood High School, Glendale, Arizona, USA
301. E-STEM, Columbus, Ohio

IEOM Student Chapter at University of Tabuk, Saudi Arabia



IEOM Student Chapter at Universitas Pakuan, Bogor, Indonesia



IEOM Student Chapter at Hyderabad Institute of Technology and Management (HITAM), Hyderabad, Telangana, India



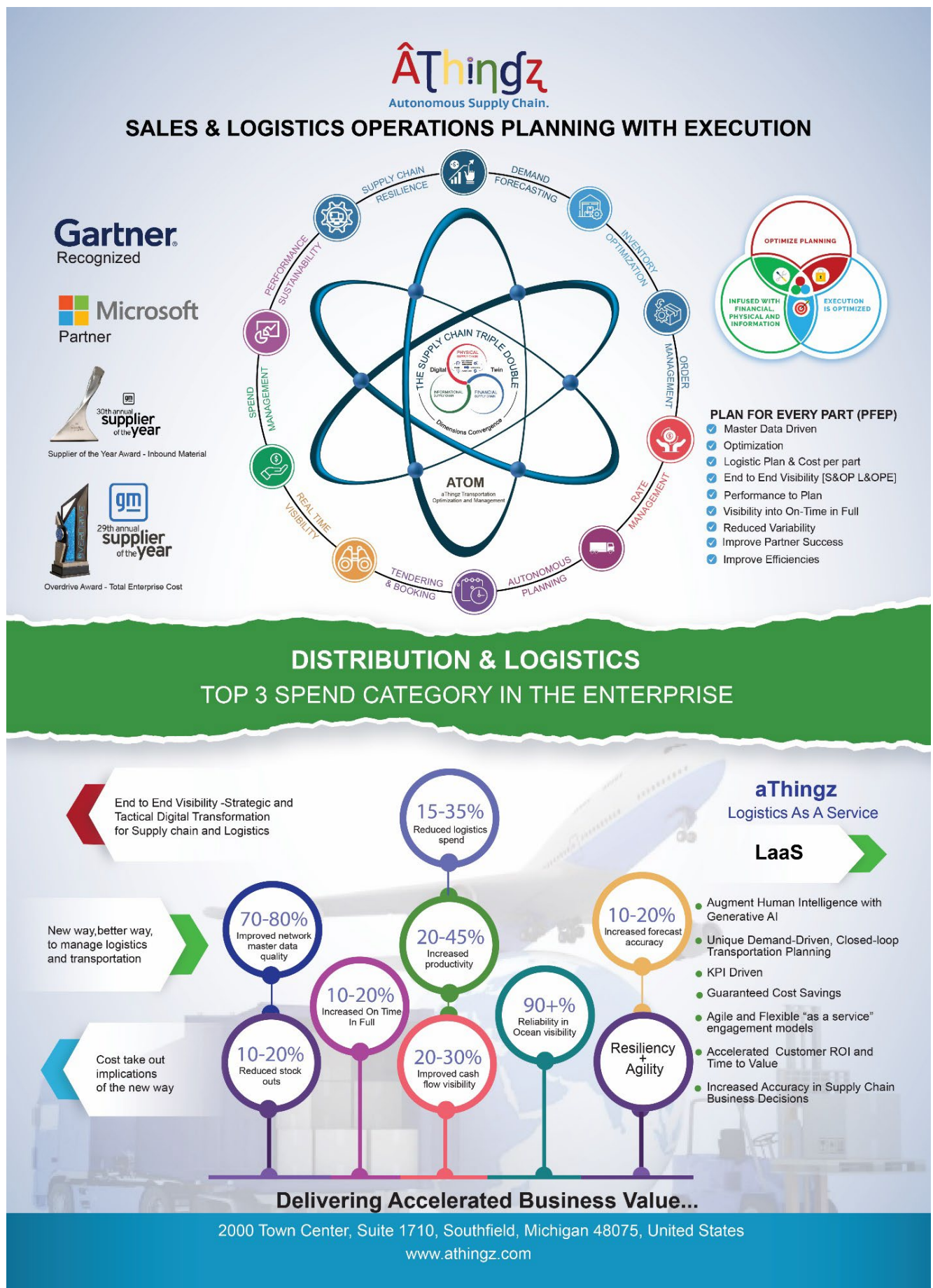
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Bulelani Christopher	Maqaga	MEng: Quality
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Siphokazi	Jwaxa	Master of Business and Management Sciences (Operations Management)
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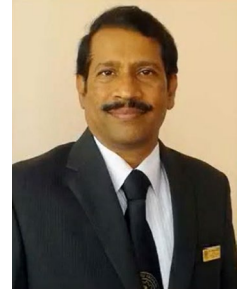
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IESEG School of Management
Paris la Defense, France



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Upcoming IEOM Conferences



7th Latin American Conference
**Industrial Engineering and
Operations Management**
August 4-6, 2026, Panama
Venue: InterContinental Miramar Hotel



Host



Co-Hosts



3rd World Congress on
**Industrial Engineering &
Operations Management**
Irvine, California, USA, October 13-15, 2026
Venue: Courtyard by Marriott Irvine Spectrum



FUTEK
FUTEK Advanced Sensor
Technology, Inc.

Theme: Advanced Manufacturing and Industrial AI Innovation



4th GCC International Conference on
**Industrial Engineering &
Operations Management**
Doha, Qatar, December 1-3, 2026
Host & Venue: University of Qatar



5th Australian Conference on
**Industrial Engineering and
Operations Management**
Nov. 24-26, 2026, Wollongong
Venue: University of Wollongong



UNIVERSITY
OF WOLLONGONG
AUSTRALIA



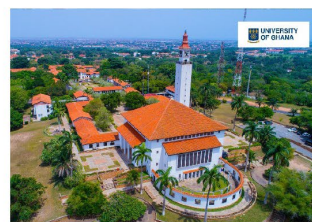
17th International Conference on
**Industrial Engineering and
Operations Management**
Kuala Lumpur, Malaysia
March 16-18, 2027
Host: Universiti Teknologi Malaysia (UTM)
Venue: UTM Kuala Lumpur Campus



UTM
UNIVERSITI TEKNOLOGI MALAYSIA



8th African Conference on
**Industrial Engineering &
Operations Management**
Accra, Ghana, May 11-13, 2027
Host: University of Ghana



UNIVERSITY OF GHANA



12th North American Conference on
**Industrial Engineering and
Operations Management**
Boston, Massachusetts, USA, June 1-3, 2027
Host and Venue: Northeastern University



Northeastern
University

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