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16th Annual International Conference on
Industrial Engineering and Operations Management

~ Ankara, Türkiye

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Welcome to the 16th Annual International Conference on Industrial Engineering and Operations Management Ankara, Türkiye, June 23-25, 2026

To All Conference Attendees:

Industrial Engineering Department of Gazi University and IEOM Society International are pleased to welcome you to the 16th Annual International Conference on Industrial Engineering and Operations Management, Ankara, Türkiye, June 23–25, 2026. It is hosted by Gazi University. This year's conference highlights key and emerging areas such as 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 over 400 submissions from 41 countries, with 300 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.

Prof. Dr. M. Selim Aktürk, Department of Industrial Engineering, Bilkent University, Ankara, Türkiye,
Çağatay Cangüloğlu, Founder & CEO, Baca Engineering / upu.io, Ankara, Türkiye

Prof. Dr. Pelin Pekgün, Department Chair for Analytics, Information Systems, Marketing & Operations
Management (AIMO) and School of Business, Wake Forest University, Winston-Salem, NC, USA

Prof. Dr. Sila Çetinkaya, Professor of Operations Research and Engineering Management and Cecil H. Green
Professor of Engineering, Lyle School of Engineering, Southern Methodist University, Dallas, Texas, USA

Hüseyin Orhun Demir, Founder & CEO, Integva Teknoloji, İstanbul, Türkiye

Prof. Dr. Semail ÜLGEN, Chair of Industrial Engineering Department, Antalya Bilim University, Antalya, Türkiye

Prof. Dr. G. Didem BATUR SİR, Department Vice Chair of Industrial Engineering, Gazi University, Ankara,
Türkiye

Prof. Dr. Sinan Onal, Chair of Industrial Engineering, Southern Illinois University, Edwardsville (SIUE),
Edwardsville, Illinois, USA

Prof. Dr. Fitra Lestari, Professor, Industrial Engineering Department, UIN Sultan Syarif Kasim Riau, Indonesia

Dr. Adem Kayar, Founder and CEO, MCS Factory Digitalization, İstanbul, Türkiye

Prof. Dr. Ali Allahverdi, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

IEOM Society International continues to expand its global footprint, now operating in 151 countries and supporting 302 student chapters across 60 countries. We remain committed to promoting student engagement, research excellence, and international collaboration.

We extend our sincere appreciation to Prof. Dr. Bilal Toklu and Prof. Dr. Ali Allahverdi, Department of Industrial Engineering, Gazi University, Türkiye 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 Ankara.



Dr. Bilal Toklu
Conference Chair
Professor and Department Head
Department of Industrial Engineering
Gazi University
Ankara, Türkiye



Dr. Ali Allahverdi
Conference Co-Chair
Professor
Department of Industrial Engineering
Gazi University
Ankara, Türkiye



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

June 23, 2026 (Tuesday)

10:00 – 10:10 am, June 23 (Tuesday) – Conference Chair Remarks

10:10 – 10:15 am, June 23 (Tuesday) – IEOM Society Remarks – Professor Reimer and Dr. Ali

10:15 – 10:30 am, June 23 (Tuesday) – Conference Opening and Host Welcome – VC, Gazi University

10:30 – 11:00 am, June 23 (Tuesday) – Opening Keynote



Prof. M. Selim Aktürk
Professor, Department of Industrial Engineering
Bilkent University
Ankara, Türkiye

Past Dean (2023 – 2025), Faculty of Business Administration
Past Chair (2013 – 2021), Industrial Engineering Department

Title: Impact of Fuel Prices on Strategic Airline Network Planning and Sustainability

Prof. Aktürk has been a full-time faculty member at Bilkent University since 1990. He served as the Dean of the Faculty of Business Administration from 2023 to 2025 and as Department Chair of the Industrial Engineering Department from 2013 to 2021. During his sabbatical leaves, he spent an academic year at the UC Berkeley IEOR Dept. (twice), McGill University's Faculty of Management, and Carnegie Mellon University, as a visiting professor.

Prof. Aktürk has been the President of the Operational Research Society of Turkey since 2013. Prof. Aktürk is a Fellow of INFORMS, class of 2023.

11:00 -11:30 am, June 23 (Tuesday) – Keynote:



Çağatay Cangüloğlu
Founder & CEO
Baca Engineering / upu.io
Ankara, Türkiye

Çağatay Cangüloğlu is the Founder and Chief Executive Officer of Baca Engineering and the creator of the upu.io industrial digitalization platform. He earned his Bachelor's degree in Physics Engineering from Ankara University in 2009.

In the early stages of his professional career, Cangüloğlu worked in the private sector focusing on the dynamic modelling of physical systems. Combining strong technical expertise with an entrepreneurial vision, he founded Baca Engineering in 2014. Under his leadership, the company has successfully delivered numerous high-impact engineering projects for the defence and oil industries.

His work has focused particularly on the localization and reverse engineering of complex electro-mechanical systems, as well as the development of advanced industrial automation solutions. These initiatives include robotic cell integration and the modernization of manufacturing processes to support highly automated and unmanned production environments.

Drawing on extensive shop-floor experience and a deep understanding of industrial operations, Cangüloğlu led the development of the upu.io Manufacturing Execution System and the upu.tower IIoT Gateway in 2018. These technologies represent key innovations in manufacturing digitalization and are protected by four separate patents. The upu.io platform gained international attention following its global launch at major technology events such as Hannover Messe and Consumer Electronics Show in Las Vegas in 2024. In the same year, the global research firm StartUs Insights recognized upu.io as one of the Top 5 Most Innovative Startups among 8,490 companies evaluated worldwide.

As of 2026, Cangüloğlu continues to lead digital transformation initiatives for major industrial organizations. His recent work focuses on integrating artificial intelligence into manufacturing management systems through solutions such as upu.abi, an AI-powered business intelligence application, and upu.vms, an AI-driven vendor management system. Through his work in industrial automation, IIoT and AI-enabled manufacturing platforms, Çağatay Cangüloğlu remains at the forefront of innovation in smart factory technologies and the digital transformation of modern manufacturing systems.

11:30 am – 12:00 pm, June 23 (Tuesday) – Keynote



Pelin Pekkün, Ph.D.
Department Chair for Analytics, Information Systems, Marketing & Operations Management (AIMO)
Thomas H. Davis Professor in Business and Professor of Analytics
School of Business
Wake Forest University
Winston-Salem, NC, USA

Presentation Title: Reducing Food Waste While Fighting Hunger: The Role of Distribution Strategies in Food Bank Operations

Pelin Pekkün is Thomas H. Davis Professor in Business and Professor of Analytics at Wake Forest University School of Business. She also serves as the Department Chair of Analytics, Information Systems, Marketing & Operations Management. She was formerly a Dean's Fellow and associate professor of management science in the Darla Moore School of Business at the University of South Carolina. She also established and served as the Faculty Director of the Master of Science in Business Analytics program at the Darla Moore School of Business. Her research interests include applications of management science and operations research in supply chain management, pricing and revenue management, marketing/operations interface, and humanitarian and non-profit operations. Her research has appeared in top journals including Manufacturing & Service Operations Management, Production and Operations Management, Journal of Operations Management, Journal of Marketing, Decision Sciences and IIE Transactions.

Prior to joining academia, Professor Pekkün led the operations research team in North America at JDA Software's Pricing and Revenue Management Group, where she worked in various projects in retail, hospitality, passenger travel and other leisure industries. Her work with the Carlson Rezidor Hotel Group on stay night price optimization was a finalist for the 2012 INFORMS Franz Edelman Award and the 2013 INFORMS Revenue Management and Pricing Section Practice Award. She currently serves as an Associate Editor for Manufacturing & Service Operations Management and Decision Sciences journals, and the Editor of the annual special issue dedicated to the Edelman Award finalist papers for the INFORMS Journal on Applied Analytics. She also serves as the Secretary on the INFORMS Board of Directors and Executive Committee and as the Vice President, Industry on the Production and Operations Management Society (POMS) Board.

Professor Pekkün holds M.S. and Ph.D. degrees in industrial and systems engineering from Georgia Institute of Technology, and B.S. and M.S. degrees in industrial engineering from Bogazici University in Istanbul, Türkiye.

12:00 – 12:30 pm, June 23 (Tuesday) – Keynote



Ahad Ali, Ph.D.
Associate Professor
Director, Doctor of Engineering in Advanced 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: Industry 4.0, AI in Manufacturing, Manufacturing Execution Systems (MES), and PBL

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 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, 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.

12:30 – 13:00 pm, June 23 (Tuesday) – Keynote Panels

June 24, 2026 (Wednesday)

10:00 – 10:30 am, June 24 (Wednesday) – Keynote



Dr. Sila Çetinkaya, Ph.D.
Professor of Operations Research and Engineering Management
Cecil H. Green Professor of Engineering
Lyle School of Engineering
Southern Methodist University
Dallas, Texas, USA

Sila Çetinkaya is Professor of OREM and Cecil H. Green Professor of Engineering in the SMU Lyle School of Engineering. She holds courtesy appointments with ITOM in the SMU Cox School of Business and with Internal Medicine in the UT Southwestern Medical Center.

Çetinkaya's research interests include supply chain and healthcare analytics, stochastic optimal control theory, and applied probability. Her publications appeared in the most reputable outlets of industrial engineering and management science including Operations Research, Management Science, Production and Operations Management, Institute of Industrial and Systems Engineers (IISE) Transactions, INFORMS Journal of Applied Analytics (previously, Interfaces), Naval Research Logistics, and Transportation Research-B and -E, among many others. Her research program has been funded by multiple grants from National Science Foundation (NSF), Department of Education, Texas Engineering Education Coordination Board, Frito-Lay, Pepsi-Co, and Nokia, among other sponsors. She serves as a department editor of IISE Transactions and an associate editor of Naval Research Logistics. Çetinkaya is a member of INFORMS and IISE.

Education

Ph.D., Management Science, McMaster University, Hamilton, ON, Canada
M.Sc., Industrial Engineering, Bilkent University, Ankara, Türkiye
B.Sc., Industrial Engineering, Istanbul Technical University, Istanbul, Türkiye

10:30 – 11:00 am, June 24 (Wednesday) – Industry Keynote



Hüseyin Orhun Demir
Founder & CEO
Integva Teknoloji
istanbul, Türkiye

Hüseyin Orhun Demir is the Founder and Chief Executive Officer of Integva Teknoloji and the creator of the Coint modular robotics platform. His work focuses on reducing the technical and economic barriers to industrial automation by enabling companies to configure, simulate, and deploy customized collaborative robots through modular hardware architectures and web-based engineering tools.

Demir earned his Bachelor's degree in Mechanical Engineering from Uludağ University in 2013. Since 2017, he has been leading independent engineering and technology initiatives, building practical expertise in mechanical design, industrial automation, and manufacturing systems.

Prior to initiating the Coint project, he worked as a design engineer on various industrial machinery developments and contributed to major national projects, including Istanbul Airport and the Presidential Symphony Orchestra Concert Hall complex. These experiences provided him with extensive exposure to large-scale engineering workflows, multidisciplinary coordination, and implementation-oriented design practices.

In October 2020, Demir founded Integva Teknoloji with support from TÜBİTAK. The company has since successfully completed multiple TÜBİTAK-supported research and development projects and continues its activities within the ODTÜ Teknokent innovation ecosystem. Under his leadership, Integva focuses on developing next-generation industrial automation solutions that are modular, scalable, and economically accessible.

At Integva, Demir leads the development of the Coint modular robotics ecosystem, which enables users to construct collaborative robots using reconfigurable joint architectures. His technical interests include modular robot joint design, machine tending automation, digital twin-driven factory systems, and scalable robot configuration platforms.

In parallel with hardware innovation, he oversees the development of integrated software infrastructure for smart manufacturing, including web-based robot configurators and 3D factory visualization environments. His long-term vision is to enable manufacturing facilities to rapidly generate functional digital twins and transition toward highly adaptive, data-driven production environments.

Demir remains actively engaged in the international startup and industrial innovation ecosystem, pursuing strategic partnerships, accelerator collaborations, and global expansion initiatives to scale the Coint platform worldwide.

11:00 – 11:30 am, June 24 (Wednesday) – Keynote



Prof. Dr. Semail ÜLGEN
Chair of Industrial Engineering Department
Antalya Bilim University
Antalya, Turkiye

Assoc. Prof. Semail Ülgen is the chair of Industrial Engineering Department at Antalya Bilim University where she has been on the faculty since 2012. She received Ph.D. degree in Mathematics at Purdue University in 2005, and B.S. degree at Bilkent University in 1995. In years 2004-2006 she was at University of Mississippi, Oxford, MS as an assistant professor. Then she worked at Grand Valley State University, Allendale, MI, as an assistant professor for one year in 2006 and later she worked as an assistant professor at Northwestern University for three years starting in 2007. She held visiting assistant professor position at Indiana University, Bloomington, IN as an assistant professor for one year in 2011-2012. Dr. Ülgen was a recipient of the Young Scientist Award for Turkish American Scientists and Scholars Association (USA) in 2006. Her research interests are Finsler Geometry; Noncommutative Geometry, Applications to Mathematical Physics. She is also building

research interest in stochastic processes and its applications. She was a researcher in TUBITAK 1001 (the Scientific and Technological Research Council of Türkiye) research project (#113F311, Title: Einstein metrics in Finsler Geometry) for two years in 2014. She served as the adviser for the Survey Development and Implementation ATSO Pilot Project for Determining the Industrial 4.0 Status of Companies in Antalya in 2017. She was the academic adviser of the TUBITAK Efficiency Challenge Electric Vehicle Competition for mainly engineering undergraduate students during the years 2016, 2017, and 2020 organized by TUBITAK. Her team built two electric cars (got 25th in the competitions) and attended the competitions.

11:30 am – 12:00 pm, June 24 (Wednesday) – Keynote



Prof. G. Didem BATUR SİR
Professor, Department of Industrial Engineering
Gazi University
Ankara, Türkiye

Presentation Title: The Strategic Value of Industrial Engineering: Perspectives from Academia and Turkish Industry

Prof. Gül Didem Batur Sir is a Professor and the current Department Vice Chair of the Industrial Engineering Department at Gazi University, Türkiye, where she has been a faculty member since 2009. She earned her B.S. and Ph.D. degrees in Industrial Engineering from Gazi University and her M.S. degree from Bilkent University. Her primary research interests lie in the fields of production planning and scheduling, optimization models for manufacturing systems, and healthcare management. She has published peer-reviewed journal papers and contributed to academic research in operations management. In addition to her academic and research roles, she has actively participated in international engineering societies and conference organizations, contributing to the advancement of the industrial engineering community. Her research has appeared in leading academic journals, including the International Journal of Production Economics, Computers & Industrial Engineering, and Socio-Economic Planning Sciences.

12:00 - 1:00 pm, June 24 (Wednesday) – Keynote



Professor Don Reimer
Chief Operating Officer
IEOM Society International
Southfield, Michigan, USA

Presentation Title: Entrepreneurship Mindset, Innovation, and Business Model Canvas for Business Incubation

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

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

June 25, 2026 (Thursday)

10:00 – 10:30 am, June 25 (Thursday) – Keynote



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

Presentation Title: Engineering Faculty as System Designers in the AI Era: Designing Incentives, Verification, and Evidence of Learning

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.

10:30 – 11:00 am, June 25 (Thursday) – Keynote



Prof. Fitra Lestari, ST, MEng, PhD, IPM, ASEAN Eng
Professor, Industrial Engineering Department
Faculty Science and Technology
UIN Sultan Syarif Kasim Riau, Indonesia

Fitra Lestari is currently a Professor and Former Head of Industrial Engineering Department in Faculty Science and Technology, UIN Sultan Syarif Kasim Riau, Indonesia. Then, He also Head of Halal Research Group (INPROMAS), UIN Sultan Syarif Kasim Riau, Indonesia. He gained his BEng and MEng in Industrial Engineering from Andalas University (Indonesia) and Universiti Teknologi Malaysia (UTM- Malaysia). Then, He has continued the PhD project at UTM Malaysia in the field of Supply chain relationships in a downstream sector of the Palm Oil industry. He has published extensively including several refereed journal papers, conference papers, book chapters, and edited reference books associated with Supply Chain Management, Marketing, Logistic, and Performance Measurement. He serves as a reviewer, associate editor and editorial member for several national and international journals. He joins as a member of the International Association of Engineers (IAENG), and Director of student competition in Industrial Engineering and Operations

Management (IEOM Society- Indonesia), and General Secretary of Indonesian Industrial Engineering Higher Education Organizing Agency (BKSTI Indonesia-Sumatera II). He also registered as Halal Auditor in Indonesia. His industrial and government collaborators include Strategy of Small Medium Enterprises, Halal Supply Chain dan Performance Assessment and Institutional Strengthening of Oil Palm Supply Chains.

11:00 – 11:30 am, June 25 (Thursday) – Keynote



Dr. Adem Kayar
Founder and CEO
MCS Factory Digitalization
Istanbul, Istanbul, Türkiye

Dr. Adem Kayar is a CEO of MCS Group. As a leader in industrial digital transformation, he possesses more than 20 years of experience in industrial automation, software technologies, and digitalization. Through the MCS Group companies he founded in Istanbul, he executes industrial automation and digital transformation projects. Leveraging strong partnerships with Siemens, he guides companies through their digital transformation journeys and spearheads the implementation of Industry 4.0 initiatives. Additionally, as a Digital Transformation Consultant (DDX), he advises industrial enterprises, helping them optimize their digitalization processes and successfully adopt advanced technologies. As the Founder and Chairman of the Board of the

Digital and Sustainable Future Association (DISÜDER), he contributes to society in the areas of sustainability and digitalization. He also provides industry guidance on digital transformation through prominent platforms such as ENOSAD and the German-Turkish Chamber of Industry and Commerce. Academically, he earned a PhD in Industrial Policies and Technology Management from Istanbul Commerce University, gaining in-depth expertise in industrial digitalization processes. He has authored numerous articles and book chapters on industrial automation and digital transformation. He also serves as a faculty member at various universities in Istanbul, sharing his knowledge and experience with future generations.

11:30 am – 12:00 pm, June 25 (Thursday) – Keynote

12:00 – 1:00 pm, June 25 (Thursday) – Keynote



Dr. Ali Allahverdi
Professor
Department of Industrial Engineering
Gazi University
Ankara, Turkiye

Bio

Ali Allahverdi has been a Professor in the Department of Industrial Engineering at Gazi University since May 2023. Prior to this appointment, he served as a faculty member in the Department of Industrial and Management Systems Engineering at Kuwait University from September 15, 1995, to May 15, 2023. Earlier in his academic career, he worked for two years at Marmara University in Istanbul, Turkey, before joining Kuwait University in 1995. He also worked as a visiting scholar at the Department of Industrial Engineering at Rensselaer Polytechnic Institute (RPI), New York, USA, from June 15, 2010, to August 20, 2011.

He received his B.S. degree in Petroleum Engineering from Istanbul Technical University, followed by his M.Sc. and Ph.D. degrees in Industrial Engineering from Rensselaer Polytechnic Institute, New York, USA. His academic and research excellence has been recognized through several prestigious awards. He received the Top Cited Article Award from the European Journal of Operational Research in 2012. Furthermore, he received the Distinguished Researcher Award in 2003, which recognized his excellent performance and outstanding research achievements over the preceding decade. Moreover, he received the Research Performance Award in 2004, acknowledging exceptional research results of outstanding significance and the demonstrated impact of a completed research project. He also received the Dissertation Prize from Rensselaer Polytechnic Institute, Troy, New York, in 1993, in recognition of outstanding academic achievement and strong promise for a successful research career.

He has published approximately 150 papers in well-known international journals, which have collectively received more than 9,000 citations, reflecting the significant impact and wide recognition of his research contributions. Moreover, he has presented more than 100 papers at international conferences. Furthermore, he has served on the scientific committee of more than 100 international conferences and has delivered keynote speeches at numerous international events, highlighting his standing in the research community.

He has been the editor of the European Journal of Industrial Engineering since 2007 and has served as a guest editor for the European Journal of Operational Research, the International Journal of Production Research, and the International Journal of Operations Research. In addition, he is currently serving as an associate editor of several international journals and as a member of the editorial boards of multiple other leading international journals, contributing actively to the advancement and dissemination of research in industrial engineering and operations research.

Presentation Title: Navigating the Publication Process: From Desk Rejection to Acceptance — A 30-Year Journey as Author, Reviewer, and Editor

Submissions Received from Countries and Territories

- | | | | |
|---------------|-----------------|---------------------------|--------------------------|
| 1. Algeria | 12. India | 23. Oman | 33. Sudan |
| 2. Australia | 13. Indonesia | 24. Pakistan | 34. Thailand |
| 3. Austria | 14. Iran | 25. Palestinian Territory | 35. Tunisia |
| 4. Bangladesh | 15. Iraq | 26. Peru | 36. Turkiye |
| 5. Brazil | 16. Ireland | 27. Philippines | 37. United Arab Emirates |
| 6. Canada | 17. Jordan | 28. Qatar | 38. United Kingdom |
| 7. Cyprus | 18. Kuwait | 29. Saudi Arabia | 39. United States |
| 8. Egypt | 19. Lebanon | 30. Senegal | 40. Uzbekistan |
| 9. Finland | 20. Libya | 31. South Africa | 41. Vietnam |
| 10. France | 21. Morocco | 32. South Korea | |
| 11. Germany | 22. New Zealand | | |

Online Keynotes

June 23, 2026 (Tuesday), 8:00 – 10:00 pm, Ankara Time



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.



Senthilkumar Thiyagarajan, Ph.D.
Senior Supply Chain Analyst
Medline Industries, LP
Northfield, Illinois, USA

Dr. Senthilkumar Thiyagarajan is a Senior Supply Chain Analyst in the Center of Excellence for Inventory Management at Medline Industries, LP. He earned his Ph.D. in Supply Chain Management from Purdue University and MS in Industrial Engineering from Arizona State University. His expertise spans supply chain resilience, digital twin technology, Industry 4.0, Lean Six Sigma, and product lifecycle management, with a proven track record of applying advanced research to real-world industry challenges. Dr. Thiyagarajan's research work has been published in leading journals, including the International Journal of Lean Six Sigma, Total Quality Management & Business Excellence, and the International Journal of Productivity and Quality Management. He has also presented

his research at major international conferences. A certified Six Sigma Black Belt, he has held impactful roles in supply chain, quality engineering, and process improvement at Tesla, Schott, Cook Medical, and Zimmer Biomet before joining Medline. Beyond his corporate contributions, Dr. Thiyagarajan actively advances the profession through editorial, advisory, and leadership service. He currently serves on the Editorial Advisory Boards of the International Journal of Lean Six Sigma and the International Journal of Quality & Reliability Management. He is a Board Member of the Logistics & Supply Chain Division of IISE and an Industrial Advisory Board Member for IISE. Within the American Society for Quality (ASQ), he leads the Content Management Committee for Supply Chain Management and contributes as a committee member for Quality 4.0 in the Quality Management Division.



Siva Ravi
Director of Operations Excellence
Marketing Card Technology, LLC
Chicago, IL

Siva Ravi is the Director of Operations Excellence at Marketing Card Technology, LLC, where he leads enterprise-wide initiatives in quality management, regulatory compliance, and operational transformation within secure payment card manufacturing. He specializes in designing and deploying integrated management systems, including ISO 9001:2015 and ISO 27001, along with Card Quality Management frameworks for Visa and Mastercard and regulatory programs such as PCI, HIPAA, SOC 2 Type 2, and FSC.

He brings deep expertise in Lean Six Sigma and structured problem solving, applying methodologies such as PFMEA, 5-Why, Ishikawa, and 8D to drive process stabilization and continuous improvement. His work has delivered measurable impact, including significant reductions in defect rates, improved production efficiency, and sustained productivity gains across manufacturing operations.

His recent work focuses on Industry 4.0 transformation, where he has led the implementation of MES and data-driven shop floor systems to enhance traceability, enable real-time performance monitoring, and reduce manual inefficiencies. He has also applied advanced inventory analytics and optimization techniques to improve material flow and working capital utilization.

Prior to his current role, He supported global operational excellence initiatives across multiple manufacturing sites in Europe, contributing to SAP process standardization and enterprise quality system implementation.

He holds an MBA in Operations from the University of Applied Sciences Hof, Germany, and a Bachelor's degree in Mechanical Engineering from PSG College of Technology, India. He is a certified Six Sigma Black Belt, ISO 9001 Lead Implementer, Industry 4.0 MES practitioner, and a Steering Committee Member of the International Card Manufacturers Association. His expertise lies in delivering technical and regulatory quality standards for highly secure printing and manufacturing environments supporting Visa and Mastercard programs. His research and professional interests focus on digital manufacturing, data-driven operations, and supply chain optimization within card and personalization industries, with a strong emphasis on tightly controlled lead times, end-to-end traceability, and compliance-driven, high-security production systems.

Panels

2:00 – 3:30 pm, June 23 (Tuesday)

Panel – Meet the Editors

Panel Chair – Dr. Ahad Ali

2:00 – 3:30 pm, June 24 (Wednesday)

Panel – AI Impacts in Engineering Education

Panel Chair – Prof. Don Reimer

2:00 – 3:30 pm, June 25 (Thursday)

Panel – IEOM Student Chapters

Panel Chair – Professor Don Reimer

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

4:00 – 5:30 pm, June 25, 2026

AI and Machine Learning Workshop

STEPPING INTO AI & MACHINE LEARNING – Workshop
INSTRUCTOR-LED WORKSHOP WITH HANDS-ON TRAINING



Mohammad Islam
Associate Director
Optum – United Healthcare Inc.
New Jersey, United States of America

Mohammad Islam serves as an Associate Director at the UnitedHealth Group USA. He specializes in application and web-based software development, as well as machine learning and deep learning models and their practical applications. Mohammad holds a U.S. patent for a wireless GPS mapping device and has contributed articles to esteemed publications such as ASCE and CSCE. With a keen strategic mindset and a robust IT and Engineering background, Mohammad brings extensive experience in team management, technical leadership, and coaching. He excels in connecting individuals and teams with the right tools and products to optimize effectiveness and efficiency for their mission. With nearly 20 years of experience in IT Program and Portfolio management, spanning agile, SDLC, Kanban, and Scrumban methodologies, Mohammad believes that leveraging AI wisely can lead

humanity to unprecedented heights. Before joining UnitedHealth in 2018, Mohammad held positions at Bank of America, Merrill Lynch, Walmart, and the United Nations.

June 25, 2025: 6:00 – 8:00 pm

Six Sigma Yellow Belt Workshop



Dr. Ahad Ali
Associate Professor
Director, Doctor of Engineering in Advanced Manufacturing
Director of Industrial Engineering Programs (BSIE & MSIE)
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, director of doctor of engineering in advanced manufacturing and director of industrial engineering programs (BSIE & MSIE) at A. Leon Linton Department of Mechanical, Robotics, and Industrial Engineering of the Lawrence Technological University (LTU), Southfield, Michigan, USA. He established

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

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 Dr. Hulya Yavuz Ersan, Professor at Hacettepe University, Türkiye
 Dr. Ahad Ali, Associate Professor, Director of Doctor of Engineering in Advanced Manufacturing, Director of Industrial Engineering, Lawrence Technological University, Michigan, USA, and CEO, IEOM Society International

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Conference Schedule

Day 1 – June 23, 2026 (Tuesday)

08:00 - 17:00	Registration						Zoom Room 7
09:00 - 10:00	Networking Morning Coffee						
10:00 - 10:30	Opening – Conference Chair Remarks, IEOM Society Remarks and Host Welcome Message						8:00 – 11:00 Competitions
10:30 - 11:00	Opening Keynote: Prof. M. Selim Aktürk, Professor, Department of Industrial Engineering, Bilkent University, Ankara, Türkiye, Past Dean (2023 – 2025), Faculty of Business Administration and Past Chair (2013 – 2021), Industrial Engineering Department						11:00 – 12:00 BM & OM
11:00 - 11:30	Keynote: Çağatay Cangüloğlu, Founder & CEO, Baca Engineering / upu.io, Ankara, Türkiye						12:00 – 14:00 SCM
11:30 - 12:00	Keynote: Dr. Pelin Pekgün, Department Chair for Analytics, Information Systems, Marketing & Operations Management (AIMO) and Thomas H. Davis Professor in Business and Professor of Analytics, School of Business, Wake Forest University, Winston-Salem, NC, USA						14:00 – 16:00 Operations Research
12:00 - 12:30	Keynote: Dr. Ahad Ali, Director, Doctor of Engineering in Adv Manufacturing and Director of Industrial Engineering Program, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Michigan, USA						
12:30 - 13:00	Keynote Panel						
13:00 - 14:00	Lunch						16:00 – 18:00 AI and DS
	Afternoon Technical Sessions – Breakout Rooms						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	
14:00 - 15:30	Panel – Meet the Editors	UG Comp	PhD & MS Comp	High School STEM Comp	SCM	Case Studies	18:00 – 20:00 HF and Ergo
15:30 - 16:00	Networking Tea Break						
	4:00 – 6:00 (Day 1) – Poster Session						
16:00 - 17:30	Panel	UG Research Comp	Grad Competition	Manufacturing	HF	Operations Research	20:00 – 22:00 Online Keynotes
19:00 - 21:00	Welcome Cocktail						

Day 2 – June 24, 2026 (Wednesday)

08:00 - 17:00	Registration						Zoom Room 7
09:00 - 10:00	Networking Morning Coffee						
10:00 - 10:30	Keynote: Dr. Sila Çetinkaya, Professor of Operations Research and Engineering Management and Cecil H. Green Professor of Engineering, Lyle School of Engineering, Southern Methodist University, Dallas						8:00 – 10:00 High School Comp
10:30 - 11:00	Keynote: Hüseyin Orhun Demir, Founder & CEO, Integva Teknoloji, İstanbul, Türkiye						10:00 – 12:00 Sustainability
11:00 - 11:30	Keynote: Prof. Dr. Semail ÜLGEN, Chair of Industrial Engineering Department, Antalya Bilim University, Antalya, Türkiye						12:00 – 14:00 EM & PM
11:30 - 12:00	Keynote: Prof. G. Didem BATUR SİR, Professor, Department of Industrial Engineering, Gazi University, Ankara, Türkiye						14:00 – 16:00 AI and DS
12:00 - 13:00	Keynote: Professor Don Reimer, Chief Operating Officer, IEOM Society, USA						
13:00 - 14:00	Lunch						16:00 – 18:00 SCM
	Afternoon Technical Sessions – Breakout Rooms						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	
14:00 - 15:30	Panel – AI Impacts in Engineering Education	Simulation	Manufacturing	EM-PM	Eng Edu + Mfg		18:00 – 20:00 Lean Six Sigma
15:30 - 16:00	Networking Tea Break						
16:00 - 17:30	Panel	AI	Sustainability	Quality	SCM		
19:00 - 22:00	Gala Dinner + Awards + Onsite Competition Winners + Recognitions of Best Track Papers + IEOM Gazi University Student Chapter Induction Ceremony						

Day 3 – June 25, 2026 (Thursday)

08:00 - 17:00	Registration						Zoom Room 7
09:00 - 10:00	Networking Morning Coffee						
10:00 - 10:30	Keynote: Dr Sinan Onal, Professor and Chair of Industrial Engineering, Southern Illinois University, Edwardsville (SIUE), Edwardsville, Illinois, USA						8:00 – 10:00 Eng. Edu.
10:30 - 11:00	Keynote: Dr. Fitra Lestari, Professor, Industrial Engineering Department, UIN Sultan Syarif Kasim Riau, Indonesia						10:00 – 12:00 Quality
11:00 - 11:30	Keynote: Dr. Adem Kayar, Founder and CEO, MCS Factory Digitalization, İstanbul, Türkiye						12:00 – 14:00 Simulation
11:30 - 12:00	Keynote:						14:00 – 16:00 Automation
12:00 - 13:00	Keynote: Dr. Ali Allahverdi, Professor, Department of Industrial Engineering, Gazi University, Ankara, Türkiye						
13:00 - 14:00	Lunch						16:00 – 18:00 BM & OM
	Afternoon Technical Sessions – Breakout Rooms						
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	
14:00 - 15:30	Panel – IEOM Student Chapters	Simulation	Quality	BM & OM	SCM	AI Workshop	18:00 – 20:00 Sustainability
15:30 - 16:00	Networking Tea Break						
16:00 - 17:30	Panel	AI	Sustainability	Automation	Lean Six Sigma	AI Workshop	
18:00 - 20:00	Six Sigma Workshop by Dr. Ahad Ali						

June 23, 2026 (Tuesday) – Day 1

08:00 - 17:00 Registration and Networking

June 23, 2026 (Tuesday) - Session: 10:00 – 13:00

10:00 – 13:00, Tuesday

Onsite Auditorium

Opening and Keynotes

10:00 - 10:30 Opening – Conference Chair Remarks, IEOM Society Remarks and Host Welcome Message

10:30 - 11:00 Opening Keynote: Prof. M. Selim Aktürk, Professor, Department of Industrial Engineering, Bilkent University, Ankara, Türkiye, Past Dean (2023 – 2025), Faculty of Business Administration and Past Chair (2013 – 2021), Industrial Engineering Department

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12:00 - 12:30 Keynote: Dr. Ahad Ali, Director, Doctor of Engineering in Adv Manufacturing and Director of Industrial Engineering Program, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Michigan, USA

12:30 – 13:00 Keynote Panels

13:00 – 14:00 - Lunch Break

June 23, 2026 (Tuesday) - Session: 14:00 – 15:30

14:00 – 15:30, Tuesday

Onsite Room 1

Panel – Meet the Editors

Panel Chair: Dr. Ahad Ali

June 23, 2026 (Tuesday) - Session: 14:00 – 15:30

14:00 – 15:30, Tuesday

Onsite Room 2

Session Chair: Professor Don Reimer, Chief Operating Officer, IEOM Society International, Michigan, USA

Undergraduate Student Paper Competition sponsored by Siemens

ID 75 A Time-Expanded Carbon and Congestion-Aware Electric Vehicle Routing Problem with Station Capacity and a Heterogeneous Fleet

Ecem Yavuzdogan and Aysenur Bal, Department of Industrial Engineering, Ozyegin University, Istanbul, Türkiye
Milad Elyasi, Assistant Professor, Department of Industrial Engineering, Ozyegin University, Istanbul, Türkiye

ID 117 Network Design for Multi-Depot Distribution Planning

Ayça Irmak, Doğa Mert, Doruk Uysal, İrem Arda, Mahmut Aydın, and Yaren Turgut, Department of Industrial Engineering, Ozyegin University, Istanbul, Türkiye
Milad Elyasi, Ozyegin University, Istanbul, Türkiye

ID 218 Identical Parallel Machines Scheduling And Rescheduling Problem Solutions Based On Dispatching Rules
Melih Osman UZUN, Gazi University, Türkiye

ID 221 A Simulation Study of Hesitation-Aware Robotic Handoff: Safety-Efficiency Tradeoffs Across Collaborative Environment Classes
Arjun Tyagi, Data Sciences Program, Penn State Behrend, Erie, PA, USA
Palash Nimesh Doshi, Uday Aditya Jain and Hriday Jagjit Matharu, Mechanical Engineering Program, Penn State Behrend, Erie, PA, USA

ID 231 A Hybrid Grouping Genetic Algorithm with Heterogeneous Boxes and Pallets for Pallet and Vehicle Loading Optimization: An Application in TP Electric
Müfide Defne Akbay, Duru Atılğan, Eren Efe Bulut, Ayça Kılıçarslan, Gökçe Başak Salt, and Bartu Şıracı, Industrial Engineering Department, Yaşar University, Bornova, 35100, Türkiye
Prof. Dr. Ayhan Özgür Toy (Advisor), Department of Industrial Engineering, Yaşar University

ID 236 Optimization of Parallel Machine Scheduling to Minimize Sequence-Dependent Setup Times: An Application in the Defense Industry
Zeynep Aydınoğlu, Ceren Butcu, and İrem Günay, Students, Industrial Engineering Department, Başkent University, Ankara, Türkiye
Nureddin Kırkavak, Assistant Professor, Industrial Engineering Department, Başkent University, Ankara, Türkiye
Yusuf Tansel İç, Professor, Industrial Engineering Department, Başkent University, Ankara, Türkiye

ID 328 Comparing Fuzzy TOPSIS and Hierarchical COMET: A Mathematical Perspective on Uncertain Decision-Making
Selin İrem Aşlakcıoğlu, Beste Çetin, Lara Dinçer, and Syed Shah Sultan Mohiuddin Qadri, Department of Industrial Engineering, Çankaya University Ankara, Türkiye

June 23, 2026 (Tuesday) - Session: 14:00 – 15:30

14:00 – 15:30, Tuesday

Onsite Room 3

Session Chair: Dr. Özge Yüksel Orhan, Associate Professor, Chemical Engineering Department, Hacettepe University, Beytepe, Ankara, Turkey

Doctoral Dissertation Competition sponsored by Airbus

ID 30 Airport Readiness for Serving Electric Aircraft: Balancing Service Reliability and Peak Power Demand
Tahmineh Raoofi and Bela Vizvari, Industrial Engineering Department, Eastern Mediterranean University, Famagusta, Via Mersin 10, Türkiye

ID 292 Tactical and Operational Decisions Under Farm Disruptions in Poultry Production Supply Chains
Nazlı Karataş Aygün, Levent Kandiller (Thesis Advisor), and Önder Bulut (Co-Advisor), Industrial Engineering Department, Yaşar University, Izmir, Türkiye

Master's Thesis Competition

ID 88 An Integrated Analytical Decision Support System for Demand Forecasting: A Hybrid Approach using RF, SVR, and LSTM
Ekin Beste Bilgin and İrem Ucal Sari, Industrial Engineering Department, Baskent University, Ankara, Türkiye

ID 109 Explaining Realized Days on Market for Residential Listings in the Turkish Housing Market
Sudenas Dikici and Orhan Feyzioğlu, Department of Industrial Engineering, Galatasaray University, Istanbul, Türkiye

ID 234 Optimal Maintenance Policies for Partially Observable Systems: Newsvendor Integration, Value of Information, and Multi-Step Simulation
Melis Özveri, Industrial Engineering Department, Yaşar University Graduate School, Izmir, Türkiye
Ayhan Özgür Toy and Önder Bulut, Industrial Engineering Department, Yaşar University, Izmir, Türkiye

June 23, 2026 (Tuesday) - Session: 14:00 – 15:30

14:00 – 15:30, Tuesday

Onsite Room 4

Session Chair: Dr. Ali Elkamel, Professor, Department of Chemical Engineering, University of Waterloo and Khalifa University, Abu Dhabi, UAE

High School STEM Competition

ID 3 Tuzlu Topraktan Umuda: Akdeniz'de Akıllı Tarım ve Su Arıtımı
Nurdan Özel, Zeytinlibahçe Ticaret Mesleki ve Teknik Anadolu Lisesi, Türkiye

ID 27 Beyond Recovery: Industrial Engineering As The Architect Of A Sustainable Future
Damla Demirci, İhlas Marmara College Science High School, Istanbul, Türkiye

ID 32 Analysis of Operational Inefficiencies and Decision-Making Flux in Secondary Education: A Time-Motion Case Study and Proposed Lean Framework
Damla Demirci, İhlas Marmara College of Science High School, Türkiye

ID 254 Navigation-integrated smart traffic light system for emergency vehicles

Arda Efe Solak, Student, Beştepe College, Grade 5, Ankara, Türkiye

ID 291 Metamorphosis: A symbiotic hybrid (ground-air) robotic system for continuous search and rescue operations

Efe Özbey Akgül, Osman Ulubaş Köşk Anatolian Hight School, Kayseri, Türkiye

Nesibe Öz and Yağmur Başer, Osman Ulubaş Köşk Anatolian Hight School, Osman Ulubaş Köşk Anatolian Hight School, Kayseri, Türkiye

ID 326 Esports-Related Wrist and Finger Injuries and Prevention Strategies

Doruk Kasap, 8th Grade Middle School Student, Beştepe College, Middle School, Çayyolu Campus, Çayyolu, Çankaya, Ankara, Türkiye

June 23, 2026 (Tuesday) - Session: 14:00 – 15:30**14:00 – 15:30, Tuesday****Onsite Room 5**

Session Chair: Saurabh Chandra, Professor, Operations Management and Quantitative Techniques, Indian Institute of Management, Indore, India

Supply Chain Management and Logistics**ID 15 Navigating Global Disruptions: A Systematic Review of Technological and Environmental Challenges in Modern Supply Chains**

Sohaila Elgazar, Shaimaa Abdelkhalik and Lobna Hafez, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt

ID 24 Modern Slavery and Emerging Technologies: Promise or Peril

Ardalan Marandi Alamdari, Centre for Sustainable Operations and Resilient Supply Chains, School of Management, Adelaide University, Adelaide, South Australia, Australia

ID 41 An Enhanced Genetic Algorithm for Multi-Objective Reverse Logistics Network Design Under Circular Economy Constraints: Computational Study in Saudi Industrial Cities

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

ID 42 Liquefied Natural Gas Annual Delivery Plan Problem: A New Optimization Model and Analysis

Cansu Cav, Industrial Engineering Department, TOBB University of Economics and Technology, Ankara, Türkiye

Kadir Ertogral, Mechanical and Industrial Engineering Department, Qatar University, Doha, Qatar

ID 45 The Impact of Information Sharing on Enhancing the Efficiency of Suppliers and Manufacturers

Soroush Eslami, and Oğuzhan Kırılmaz, Industrial Engineering Department, Eastern Mediterranean University, Famagusta via Mersin 10, Türkiye

ID 52 Competitive Package Sizing and Shrinkflation

Armağan Özbilge and Sylvain Charlebois, Faculty of Management, Dalhousie University, Halifax, NS, Canada

Amirmohsen Golmohammadi, Faculty of Business and Information Technology, Ontario Tech University, Oshawa, ON, Canada

ID 59 Integrated Last Mile Delivery and Workforce Scheduling to Meet Demand Surges in E-Commerce Retail

Saurabh Chandra, Professor, Operations Management and Quantitative Techniques, Indian Institute of Management Indore, Indore, MP, India

June 23, 2026 (Tuesday) - Session: 14:00 – 15:30**14:00 – 15:30, Tuesday****Onsite Room 6**

Session Chair: Riska Elsyah, Ankara Hacı Bayram Veli University, Türkiye

Case Studies and Best Practices**ID 97 Make-or-Buy Decisions in the Aerospace Defense Industry Under Geopolitical Risk**

Ömer Oker, Graduate School of Natural and Applied Sciences, Department of Industrial Engineering, Gazi University, Yenimahalle, Ankara, Türkiye

Ayyüce Aydemir Karadağ, Department of Industrial Engineering, Gazi University, 06570, Çankaya, Ankara, Türkiye

ID 252 Artificial Intelligence Applications in Jordan's Tourism Sector: A Genetic Algorithm Approach to Sustainable Transport and Green Accounting

Faris Alqadi, Jerash University, Jordan

ID 360 Investment Feasibility Study of Gas Station Facility at X Port Area in Sumatra Island, Indonesia

Riska Elsyah, Ankara Hacı Bayram Veli University, Türkiye

15.30 – 16.00: Break

June 23, 2026 (Tuesday) - Session: 16:00 – 17:30

16:00 – 17:30, Tuesday

Onsite Room 1

Panel**June 23, 2026 (Tuesday) - Session: 16:00 – 17:30**

16:00 – 17:30, Tuesday

Onsite Room 2

Session Chair: Dr. Marwen Elkamel, Department of Industrial Engineering & Management Systems, University of Central Florida, Orlando, Florida

Undergraduate Research Competition sponsored by Daikin Applied**ID 73 Supply Chain Resilience and Disruption Preparedness: The Role of Digital Visibility**

SERGHINI Meryem (Professor–researcher), JIAR Abdelkarim (PHD Student) and M'braki Hind (PHD Student), Laboratoire d'études et recherches en économie et management appliqué (LEREMA), Faculté des sciences juridiques, économiques et sociales, Agadir, Morocco

ID 222 A Simulation Study of Hesitation-Aware Robotic Handoff: Safety-Efficiency Tradeoffs Across Collaborative Environment Classes

Arjun Tyagi, Data Sciences Program, Penn State Behrend, Erie, PA, USA

Palash Nimesh Doshi, Uday Aditya Jain and Hriday Jagjit Matharu, Mechanical Engineering Program, Penn State Behrend, Erie, PA, USA

Senior Design Project / FYP Competition**ID 356 An Optimization Model and User Interface for Job Assignment and Scheduling Considering Due Dates**

Duygu Ece TARCAN, Industrial Engineering, Gazi University, Ankara, Türkiye

June 23, 2026 (Tuesday) - Session: 16:00 – 17:30

16:00 – 17:30, Tuesday

Onsite Room 3

Session Chairs:

Dr. Mehmet KABAK, Department of Industrial Engineering, Gazi University, Ankara

Dr. Selçuk Kürşat İŞLEYEN, Department of Industrial Engineering, Gazi University, Ankara

Graduate Student Paper Competition sponsored by Eaton Corporation**ID 35 Projection of Electricity Generation Profiles and Carbon Emissions Towards 2060: The Indonesian Context**

La Ode Masri Ande Kolewora and Virtuous Ikmal Wicaksono, Master's Program in Systems Engineering, Renewable Energy Concentration, University of Gadjah Mada, Yogyakarta, Indonesia

Ahmad Agus Setiawan, Department of Nuclear Engineering and Engineering Physics, University of Gadjah Mada, Yogyakarta, Indonesia

Arham, Saiful. M and Muhammad Taufiq, Master's Program in Systems Engineering, Renewable Energy Concentration, University of Gadjah Mada, Yogyakarta, Indonesia

Hani Nabillah, Master's Program in Systems Engineering, Industrial Systems Concentration, University of Gadjah Mada, Yogyakarta, Indonesia

Sri Wahyu Ningsih, Master's Program in Systems Engineering, Environmental Systems Concentration, University of Gadjah Mada, Indonesia

Andita Dewi Rinaldi, Master's Program in Systems Engineering, Concentration in Digital Marketing, University of Gadjah Mada, Indonesia

ID 49 Design of a Hydro Docking System for a Small Town Harbour

Samkelisiwe Muthwa, Noxolo Nxumalo and Pinky Nzama, Department of Mechanical Engineering, Faculty of Engineering and the Built Environment, Mangosuthu University of Technology, Durban, South Africa

Simulation Competition**ID 256 Simulation of Diesel Power Plant Phase-out in Indonesia Using the LEAP Model to Mitigate Geopolitical Risks**

La Ode Masri Ande Kolewora, Master's Program in Systems Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

Virtuous Ikmal Wicaksono, Master's Program in Systems Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

Rachmawan Budiarto, Department of Nuclear Engineering and Engineering Physics, Universitas Gadjah Mada, Yogyakarta, Indonesia

Supply Chain Management and Logistics Competition sponsored by aThingz**ID 239 An Interactive Hybrid Genetic Algorithm-Based Vehicle Routing Solver**

Mohammad D. AL-Tahat, Masa Al-Najjar, Dana Haddadin, Tala Zayadin and Rozalin Al-Saqqqa, Industrial Engineering Department, The University of Jordan, Amman, Jordan

Human Factors and Ergonomics Competition**ID 255 The Impact of Smart Incentive System In Leather Clicking During Footwear Manufacturing**

Varun Gupta, Senior Faculty Grade-1, Footwear Design & Development Institute, Fursatganj, Amethi-209302, India

June 23, 2026 (Tuesday) - Session: 16:00 – 17:30**16:00 – 17:30, Tuesday****Onsite Room 4**

Session Chair: Ali Allahverdi, Department of Industrial Engineering, Faculty of Engineering, Gazi University, Ankara, Türkiye

Manufacturing, Assembly and Design**ID 26 A Better Algorithm for Two-Machine Flowshop to Minimize Total Tardiness with Interval Setup Times**

Ali Allahverdi, Department of Industrial Engineering, Faculty of Engineering, Gazi University, Ankara, Türkiye

Muberra Allahverdi, Department of Mathematics, Faculty of Engineering and Natural Sciences, Ankara Yıldırım Beyazıt University, Ankara, Türkiye

ID 29 Why Scheduling in Manufacturing with Separate Setup Times Needs Further Investigation

Muberra Allahverdi, Ankara Yıldırım Beyazıt University, Faculty of Engineering and Natural Sciences, Department of Mathematics, Türkiye

Ali Allahverdi, Gazi University, Faculty of Engineering, Department of Industrial Engineering, Türkiye

ID 31 An Adaptive Large Neighborhood Search for Shift-Dependent Scheduling on Unrelated Parallel Machines with Sequence-and-Machine-Dependent Setups

Demiray Demir and Milad Elyasi, Industrial Engineering Department, Özyeğin University, Istanbul, Türkiye

ID 33 Local and Global Dominance Relations for No-Wait Flowshops with Bounded Setup Times

Muberra Allahverdi, Department of Mathematics, Faculty of Engineering and Natural Sciences, Ankara Yıldırım Beyazıt University, Ankara, Türkiye

Ali Allahverdi, Department of Industrial Engineering, Faculty of Engineering, Gazi University, Ankara, Türkiye

ID 104 Fuzzy Axiomatic Design for Product Design Selection for Dishwashing Machine

Monypanchakrith SOUS, Student, Industrial Engineering Department, Gazi University, Ankara, Türkiye

Sena AYDOĞAN, Associate Professor, Industrial Engineering Department, Gazi University, Ankara, Türkiye

June 23, 2026 (Tuesday) - Session: 16:00 – 17:30**16:00 – 17:30, Tuesday****Onsite Room 5**

Session Chair: Serkan Altuntas, Professor, Department of Industrial Engineering, Yıldız Technical University, Istanbul, Türkiye

Human Factors, Ergonomics and Healthcare Systems**ID 54 Institutional Health Management Strategies in Women's Empowerment and Child Protection Organizations in Indonesia: A Soft Systems Methodology Approach Using the Pentahelix Framework**

Muhammad Zaki and Muhammad Wadi, Postgraduate Department, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

Ulfah, Faculty of Medicine, Universitas Riau, Indonesia

Fitra Lestari, Industrial Engineering Department, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

ID 58 Healthcare in First Aid Management among Farmers Palm Oil in Integrating Preventive, Promotive, and Curative in Safety Action

Ulfah, Faculty of Medicine, Universitas Riau, Indonesia

Muhammad Rilly Aka Yogi, Faculty of Engineering, Universitas Riau, Indonesia

Fitra Lestari, Industrial Engineering Department, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

ID 63 Sickle Cell Anemia - Casgevy

Akshara Periyasamy, APL Global School, India

ID 68 A Data-Driven Systems Engineering Approach to Measuring Behavioral Adaptation in Longitudinal Chronic Care Delivery

Inas S. Khayal (1,2,3,4,5), Aidan C. Campbell (5), Amro M. Farid (6)

1 Department of Oncology, Wayne State University, Detroit, MI 48201, USA

2 Department of Industrial and Systems Engineering, Wayne State University, Detroit, MI 48201, USA

3 Department of Computer Science, Wayne State University, Detroit, MI 48201, USA

4 Population Studies, Karmanos Cancer Institute, Detroit, MI 48201, USA

5 The Dartmouth Institute for Health Policy and Clinical Practice, Geisel School of Medicine at Dartmouth, Lebanon, NH 03756, USA

6 Department of Systems Engineering, Stevens Institute of Technology, Hoboken, NJ 07030, USA

ID 325 Occupational Stress and Task-Related Physical Discomfort Levels of Cabin Crews

Suat Kasap, American University of the Middle East, Kuwait

ID 388 Assessing Occupational Health and Safety Risks of Nanomaterials in Functional Textile Manufacturing

Nazli Gulum Mutlu, Assistant Professor, Department of Occupational Health and Safety, University of Health Sciences, Istanbul, Türkiye

Serkan Altuntas, Professor, Department of Industrial Engineering, Yıldız Technical University, Istanbul, Türkiye

June 23, 2026 (Tuesday) - Session: 16:00 – 17:30**16:00 – 17:30, Tuesday****Onsite Room 6**

Session Chair: Diclehan Tezcaner Öztürk, Hacettepe Üniversitesi, Türkiye

Operations Research

ID 258 Optimizing Internal Logistics Activities in a Multi-Product Manufacturing Facility

Murat Seçmen, Erdi Daşdemir and Diclehan Tezcaner Öztürk, Hacettepe Üniversitesi, Türkiye

ID 99 Optimal Energy and Pump Scheduling in Water Distribution Systems Using Mixed-Integer Linear Programming

Danya Al-Quraan, Student, Industrial Engineering Department, Al-Hussien Technical University, Jordan, Amman

June 23, 2026 (Tuesday) - Session: 16:00 – 18:00

Poster Session (16:00 – 18:00: Day 1)

Session Chairs:

Dr. Gül Didem BATUR SİR, Department of Industrial Engineering, Gazi University, Ankara

Dr. Hakan ÇERÇİOĞLU, Department of Industrial Engineering, Gazi University, Ankara

ID 10 An Integrated AI-Driven Framework for Enhancing Quality, Reliability, and Predictive Maintenance in Smart Manufacturing Systems

Naif Almakyeel, Industrial Engineering Department, King Khalid University, Abha, Saudi Arabia

ID 28 Effects of Value Management Barriers on Sustainability Success in Australian Infrastructure Sector

Faraz Ali, School of Engineering & Technology, Central Queensland University, Australia

Ziyad Abunada, Head, College of Project Management, Built Environment, Asset & Maintenance Management, School of Engineering and Technology, Central Queensland University, Australia and School of Health Medical and Applied Sciences, Coastal Marine Ecosystems Research Centre (CMERC), Central Queensland University, Australia

Ahmed Farouk Kineber, College of Project Management, Built Environment, Asset & Maintenance Management, School of Engineering and Technology, Central Queensland University, Australia

ID 37 Gate Assignment And Scheduling Model For Airport Flights

Leen Saqqa, Ban Basheer, Lilian Anakreh, and Jasmine Alshaar, Department of Industrial Engineering, Al Hussein Technical University, Jordan

ID 40 Cognitive Load and Stress in Engineering Education: A Comparative Study Between Two Courses

Shatha Abuamer, Kuwait University, Kuwait

ID 55 Accuracy Assessment of Micro-Holes in FDM 3D Printing: Influence of Build Orientation and Process Parameters

Nawar Bin Sawad, Joud Alamzroua, Fatima Alnaim and Wadea Ameen, Industrial Engineering Department, College of Engineering, Alyamamah University, Riyadh 11512, Saudi Arabia;

ID 60 A Game-Theoretic Framework For Modeling Individual Supportive Dietary Decision-Making

Rasha D. Kamil, Scientific Research Commission, Iraq

ID 87 Navigating Sustainability Trade-offs in Purchasing: The Roles of Paradox Mindset and AI Usage

Owais Khan, Department of Management Studies, Aalto University, Espoo, Finland

ID 211 Multi-Criteria Decision-Making Techniques in the Defense Industry: A Bibliometric Analysis

Zeynep Karaman and Gül Didem Batur Sir, Industrial Engineering Department, Gazi University, Ankara, Türkiye

ID 214 Forecasting Unplanned Repair Demand in Military Helicopter Engine Components: A Decision Support System Design Using Time Series and Machine Learning Approaches

Irem Coban and Zeynep Aydemir, Industrial Engineering Department, Gazi University, Çankaya, Ankara, Türkiye

ID 216 Testing the Zero Dark Energy Hypothesis: A Numerical Simulation of Friedmann Cosmology Beyond Λ CDM

Baki Mir Aşil Kaplan, Nişantaşı Nuri Akın Anadolu Lisesi, Türkiye

ID 219 Integrated Supply Chain Planning For SMEs: Design And Optimization of a Quantitative Framework- a case Study of EuroSys

Ahmed Habbabeh, Bachelor Student, Industrial Engineering Department, Gazi University, Ankara, Türkiye

Ali Allahverdi, Professor, Industrial Engineering Department, Gazi University, Ankara, Türkiye

ID 226 Layout Optimization of Line-Feeding Kit Areas in a Manufacturing Facility: A Mixed-Integer Programming Approach

Mertcan Mutlu, İpek İlayda Ataklı, and Eminenur Yıldız, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

ID 237 Dynamic Inventory Optimization: Integrating Machine Learning and Simulation for (r, Q) Parameter Management at MAN Türkiye

Büşra Çil, İrem Çelik, and Sevede Sözdren, Students, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

Burcu Yılmaz Kaya, Advisor: Assoc. Prof., Department of Industrial Engineering, Gazi University, Ankara, Türkiye

ID 240 Drone Scheduling for Last-Mile Disaster Relief Logistics

Marwen Elkamel, Charles Major, Luis Rabelo, and Mansooreh Mollaghasemi, Department of Industrial Engineering & Management Systems, University of Central Florida, Orlando, FL, USA

ID 248 Energy Requirements of AI Data Centers and Feasibility of Hosting Them in Saudi Arabia: A Quantitative Analysis

Mohammad Abdulmajid, Hajer Bakoor, Tariq Tadmori and Alhasan Alsaqqaf, Dept. ECE, Effat University, Jeddah, Saudi Arabia

ID 276 Forecast-Driven Fair Dynamic Workforce Assignment Across Departments: A Two-Stage Optimization and Heuristic Decision Support System

Alp Kahraman, Doğa Çelikay and Efehan Akbıyık, Department of Industrial Engineering, Baskent University, Ankara, Türkiye

ID 277 A Mixed-Model Assembly Line Balancing and Model Sequencing Problem for an Industrial Vehicle Manufacturer

Beyza Nur Kandemir, Beyza Küçükerdal and Ekin Tezcan, Department of Industrial Engineering, Başkent University, Ankara, Türkiye

ID 303 Optimal Location For Emergency Medical Response Units Using GIS-Based Spatial Analysis And AHP In Al-Ahmadi Governorate, Kuwait

Haya Kharma and Bashayer Hazza, College of Engineering and Petroleum, Kuwait University, Kuwait

ID 304 AI-Based Smart Earplug for Workplace Noise Safety

Khalid Mohammed Sofyani and Hassan Hijri, Department of Industrial Engineering, Faculty of Engineering, Tabuk University, Saudi Arabia

ID 324 Machine Learning-Based Duration Prediction in Production Processes

Cagri Erhan Aygordu, Mustafa Kirik, Kemal Guneri, Firat Alma, Students, Department of Industrial Engineering, Gazi University, Ankara, Türkiye
Sena Aydogan, Advisor: Assoc. Prof., Department of Industrial Engineering, Faculty of Engineering, Gazi University, Ankara, Türkiye

ID 349 Deep Learning Prediction of Osteoporosis using Clinical Patient Data

Bedis Elkamel, School of Medicine, Wake Forest University, USA
Ali Zahedi, School of Biological Science, University of California, Irvine, USA
Hedia Fgaier, Department of Math and Science, Full Sail University, USA
Marwen Elkamel, Department of Industrial Engineering and Management Systems, University of Central Florida

ID 351 Quality Analytics and Big Data-Driven Optimization

ilayda pirlı, Selin Bilir, çağla demirbaş and dilek çağlıyan, Gazi Üniversitesi, Türkiye

June 24, 2026 (Wednesday) – Day 2

08:00 - 17:00 Registration and Networking

June 24, 2026 (Wednesday) - Session: 10:00 – 13:00

10:00 – 13:00, Wednesday

Onsite Auditorium

Keynotes

10:00 - 10:30 Keynote: Dr. Sila Çetinkaya, Professor of Operations Research and Engineering Management and Cecil H. Green Professor of Engineering, Lyle School of Engineering, Southern Methodist University, Dallas

10:30 - 11:00 Keynote: Hüseyin Orhun Demir, Founder & CEO, Integva Teknoloji, Istanbul, Türkiye

11:00 - 11:30 Keynote: Prof. Dr. Semail ÜLGEN, Chair of Industrial Engineering Department, Antalya Bilim University, Antalya, Türkiye

11:30 - 12:00 Keynote: Prof. G. Didem BATUR SİR, Professor, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

12:00 - 13:00 Keynote: Professor Don Reimer, Chief Operating Officer, IEOM Society, USA

13:00 – 14:00 Lunch Break

June 24, 2026 (Wednesday) - Session: 14:00 – 15:30

14:00 – 15:30, Wednesday

Onsite Room 1

Panel – AI Impacts in Global Engineering Education

Panel Chair: professor Don Reimer

June 24, 2026 (Wednesday) - Session: 14:00 – 15:30

14:00 – 15:30, Wednesday

Onsite Room 2

Session Chair: Saltuk Buğra Selçuklu, Energy Systems Engineering Department, Erciyes University, Kayseri, Türkiye

Simulation, Optimization and Productivity Improvement**ID 16 Operation Excellence in Manufacturing Systems**

Najlah Al-Waqayan, Lolwa Al-Mutairi, Farah Al-Nweem, Students, Kuwait University, Kuwait
 Mohammad AlKhedher, Instructor, Kuwait University, Kuwait
 Abrar AlDakheel, Teaching Assistant, Kuwait University, Kuwait

ID 23 Bi-Level Optimization for Energy-Efficient Heater Placement in Manufacturing Systems

Aybu'ke Ekşi, Milad Elyasi, and Okan O'rsan O'zener, Industrial Engineering Department O'zyeg'in University, Istanbul, Türkiye
 Altug' Melik Başol Mechanical Engineering Department O'zyeg'in University, Istanbul, Türkiye

ID 44 Integrated Arable Land Optimization through Portfolio Optimization for Sustainable Agriculture: A Case Study in Uzbekistan

Sonia Rashidian, and Béla Vizvári, Industrial Engineering Department, Eastern Mediterranean University, Famagusta, Türkiye
 Zoltán Lakner, Agriculture and Food Economics Department, Hungarian University, Gödöllő, Hungary

ID 64 Optimization Framework for Equitable Food Access Intervention Planning: A Detroit Case Study

Sanaz Vasheghani, and Shayan Sharifi, MS Student, Industrial and Systems Engineering, Wayne State University
 Aisha Langford, and Melike Yildirim, PhD Student, Family Medicine and Public Health Sciences, Wayne State University, United States

ID 94 A MILP-Based Optimization Framework for Autonomous Mobile Robot Task Scheduling, Routing, and Charging in Manufacturing Environments

Haboul Lida, Al-Attar Bayan, Abu Al Hummos Lujain, and Al-Naimat Muna, Students, Industrial Engineering Department, Al Hussein Technical University, Amman, Jordan

ID 103 A Stochastic Multi-Firm Generation Expansion Model with Lifetime-Based Retirement and Market-Power Analysis

Ayman Isam Elzein Elmahi, Independent Researcher, SUDAN
 Saltuk Buğra Selçuklu, Energy Systems Engineering Department, Erciyes University, Kayseri, Türkiye

June 24, 2026 (Wednesday) - Session: 14:00 – 15:30

14:00 – 15:30, Wednesday

Onsite Room 3

Session Chair: İrem Su Gökşen, Industrial Engineer, Industrial Engineering Department, Başkent University, Ankara, Türkiye

Manufacturing, Assembly and Design**ID 116 Investigating State and Action Space Design in Reinforcement Learning for Dynamic Two-Stage Assembly Flow Shop Scheduling**

Muhammet İkbal Kaya, Research Assistant, Industrial Engineering Department, Gazi University, Ankara, Türkiye
 Selçuk Kürşat İşleyen, Full Professor, Industrial Engineering Department, Gazi University, Ankara, Türkiye

ID 143 Enhancing the Machining Parameters for Difficult-to-Cut Materials through Machine Learning Applications

Semir M. Saleh, Mechanical Engineering Department, Ankara Yıldırım Beyazıt University, Ankara, Türkiye
 Nasser H. Hussien, Technical Optimization Research, Salm S. Omer, Machine Learning, Türkiye

ID 187 Assembly Line Balancing with Preparation Feeding

Reza Can Cihangir, Research Assistant, Industrial Engineering Department, Başkent University, Ankara, Türkiye
 Nureddin Kırkavak, Assistant Professor, Industrial Engineering Department, Başkent University, Ankara, Türkiye
 Berna Dengiz, Professor, Industrial Engineering Department, Başkent University, Ankara, Türkiye

ID 213 Sequence Dependent Setup Time Scheduling With Random Search and Greedy Heuristic Approaches

İrem Su Gökşen, Industrial Engineer, Industrial Engineering Department, Başkent University, Ankara, Türkiye
 Nureddin Kırkavak, Assistant Professor, Industrial Engineering Department, Başkent University, Ankara, Türkiye
 Merve Uzuner, Assistant Professor, Industrial Engineering Department, Başkent University, Ankara, Türkiye

June 24, 2026 (Wednesday) - Session: 14:00 – 15:30

14:00 – 15:30, Wednesday

Onsite Room 4

Session Chair: Esmâ Nur Acar, Department of Mechanical Engineering, MEF University, Istanbul, Türkiye

Engineering Management and Project Management

ID 4 A Stratified Strategic Decision-Making Framework to Facilitate Long-Term Decisions

Mehdi Rajabi Asadabadi, UWA Business School, The University of Western Australia
Miguel Loyola, UWA Business School, The University of Western Australia

ID 12 Evaluating Project Risk Using Dempster-Shafer Theory

Seyed Ashkan Zarghami, Associate Professor, Research School of Management, Australian National University, Canberra, Australia

ID 84 Quantitative Determinants of Successful Turnaround Maintenance Project Implementation in South African Processing Plants

Enos Kwena Mashitsho, Andre Vermeulen and Jan-Harm C. Pretorius, Department of Engineering Management, University of Johannesburg, South Africa

ID 89 Airvehicle design and development project scheduling with uncertain activity durations

Elif Gökçe Yıldırım, Iğın Su Yaşın, Şimal Özer, and Ezgi Arslan, Undergraduate Student, Industrial Engineering Department, Gazi University, Ankara, Türkiye
Mehmet Kabak, Professor, Industrial Engineering Department, Gazi University, Ankara, Türkiye

ID 95 Enhancing Reliability Through Strategic Maintenance Schedule of Power Generating Units

Mahlatse Modika, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa
Patrick S. Pouabe Eboule and Jan Harm C. Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, South Africa

ID 200 Effects of Digital Transformation on Project Management Performance in Renewable Energy Infrastructure Projects

Esma Nur Acar, Department of Mechanical Engineering, MEF University, Istanbul, Türkiye

June 24, 2026 (Wednesday) - Session: 14:00 – 15:30**14:00 – 15:30, Wednesday****Onsite Room 5**

Session Chair: Elif Naz Güzel, Maltepe Üniversitesi, Türkiye

Engineering Education and Curriculum Improvement**ID 297 Measuring Educational Objectives: Some Explanations and Intuitive Approaches in Industrial Engineering Education**

Ayhan GÖLCÜKCÜ, Assistant Professor, Industrial Engineering Department, Beykent University, Istanbul, Türkiye

Manufacturing and Project Management**ID 51 Hypothesis of Anti-Thermal Paints for Multispectral Concealment in Tactical Operations**

Mudi Tshivhombela, Defence and Security Cluster - Technology for Special Operations, Council of Scientific and Industrial Research, South Africa

ID 386 Life cycle assessment of hard coal-fired thermal power plants

ID 257 Study the effect of milling process parameters on cutting force and surface roughness when finishing L-PBF parts.
Abdulmajeed Dabwan, Industrial Engineering Department, College of Engineering, Taibah University, Medinah 41411, Saudi Arabia

ID 53 Multi-Feature Geometric Accuracy Optimization in FDM Additive Manufacturing via Taguchi Design and 3D Deviation Analysis

Wadea Ameen, Industrial Engineering Department, College of Engineering, AlYamamah University, Riyadh-11512, Saudi Arabia

June 24, 2026 (Wednesday) - Session: 14:00 – 15:30**14:00 – 15:30, Wednesday****Onsite Room 6**

Session Chair:

Break 15.30 – 16.00**June 24, 2026 (Wednesday) - Session: 16:00 – 17:30****16:00 – 17:30, Wednesday****Onsite Room 1****Panel**

June 24, 2026 (Wednesday) - Session: 16:00 – 17:30**16:00 – 17:30, Wednesday****Onsite Room 2**

Session Chair: Hafsa Nur Peker, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

Artificial Intelligence and Data Science**ID 91 A Comparative Analysis of Univariate Time Series Models for Industrial Electricity Consumption Forecasting**

Melike BİLDİRİCİ, Master of Science Student, Industrial Engineering Department, Gazi University, Ankara, Türkiye
 Mehmet KABAK, Prof., Industrial Engineering Department, Gazi University, Ankara, Türkiye
 Ebru YÜKSEL HALILOĞLU, Assoc. Prof., Industrial Engineering Department, Gazi University, Ankara, Türkiye

ID 92 Relative Performance-Based Reinforcement Learning for Large-Scale Dynamic and Stochastic Electric Vehicle Routing

Emine Gülşen Torunoğlu Aslan, Graduate School of Natural and Applied Sciences, Gazi University, Ankara, Türkiye
 Gonca Yıldırım and Selçuk Kürşat İşleyen, Department of Industrial Engineering, Faculty of Engineering, Gazi University, Ankara, Türkiye

ID 98 Quantifying Regional Climate Stress in Ankara via Entropy-Weighted Random Forest Modeling

İbrahim Miraç Eligüzel and Nazmiye Eligüzel, Industrial Engineering Department, Gaziantep Islam Science and Technology University, Gaziantep, Türkiye
 Sena Aydoğan, Industrial Engineering Department, Gazi University, Ankara, Türkiye

ID 115 Machine Learning-Based Diagnosis of Inflammatory Bowel Diseases

Hafsa Nur Peker and Gul Didem Batur Sir, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

June 24, 2026 (Wednesday) - Session: 16:00 – 17:30**16:00 – 17:30, Wednesday****Onsite Room 3**

Session Chair: Aliona Melnicenco, Chair of Transport Systems and Logistics, University of Duisburg-Essen, Duisburg, Germany

Sustainability, Green Systems and Energy**ID 13 Applying the Waste Management Hierarchy to the Evaluation of CO2 Management Pathways: A Resource- and Footprint-Oriented Scenario Analysis**

Aliona Melnicenco, Chair of Transport Systems and Logistics, University of Duisburg-Essen, Duisburg, Germany
 Christoph Wieland, Professor, Chair of Energy Process Engineering and Energy Systems, University Duisburg-Essen, Essen, Germany and Scientific Director, Gas- und Wärme-Institut Essen e.V. (GWI), Essen, Germany

ID 62 7nsta Bin - A 7th Sense Instant Bin designed for sustainable waste segregation

Akshara Periyasamy, APL Global School, India

ID 90 Pictorial Analysis of Costume Development in Bangla Cinema Posters for the Era of 1980s: as a Reflection of Societal Changes and Cultural Aspirations in Bangladesh

Nishat Yeasmin Khan, BGMEA University of Fashion and Technology, Dhaka, Bangladesh
 Tanjibul Hasan Sajib, Assistant Professor, Fashion Design and Technology Department, BGMEA University of Fashion and Technology, Dhaka, Bangladesh
 Md Alamgir Hossain, Professor, Industrial Engineering Department, BGMEA University of Fashion and Technology, Dhaka, Bangladesh

June 24, 2026 (Wednesday) - Session: 16:00 – 17:30**16:00 – 17:30, Wednesday****Onsite Room 4**

Session Chair: Aylin Adem, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

Quality, Reliability and Maintenance**ID 101 Wind Turbine Gearbox Condition Monitoring using Normal Behavior Modeling based on Lubrication Pressure**

Yazid Aafif, Nancy Research Center in Automatic Control (CRAN), UMR 7039, University of Lorraine, Nancy, France
 Anis Chelbi, Department of Mechanical Engineering, RIFTSI Lab: Intelligent Robotics, Reliability, Signal and Image Processing, ENSIT, University of Tunis, Tunis, Tunisia and Mediterranean School of Business, South Mediterranean University, Tunis, Tunisia
 Sofiene Dellagi, LGIPM, Computer Engineering, Production and Maintenance Laboratory, University of Lorraine, Metz, France

ID 111 Use of continuous improvement approaches for quality risk analysis

Ramzi Abidi, Computer Engineering, Production and Maintenance Laboratory (LGIPM), Lorraine University, Mechanical Laboratory of Sousse (LMS), National School of Engineers of Sousse, Metz, France ; Sousse, Tunisia
 Mohamed Ali Kammoun, Computer Engineering, Production and Maintenance Laboratory (LGIPM), Lorraine University, Metz, France
 Sofiene Dellagi, Computer Engineering, Production and Maintenance Laboratory (LGIPM), Lorraine University, Metz, France
 Anis Chelbi, RIFTSI Laboratory LR20ES02, National Higher Engineering School of Tunis, ENSIT, University of Tunis and Mediterranean School of Business South Mediterranean University, Tunis, 1053, Tunisia
 Sami Bennour, Mechanical Laboratory of Sousse (LMS), National School of Engineers of Sousse, University of Sousse, National School of Engineers of Monastir, University of Monastir and Computer Engineering, Production and Maintenance Laboratory (LGIPM), Lorraine University Metz, France; Sousse, Tunisia; Monastir, Tunisia

Taysir Rezgui, Applied Mechanics, and Systems Research Laboratory (LASMAP), Tunisia Polytechnic School, University of Carthage, Carthage, Tunisia

ID 137 Anomaly Detection in Space Systems Testing via Machine Learning

Abdurrahman Korucu, Space Technologies Research Institute (TUBITAK UZAY) and Advanced Technologies Department, Gazi University, Ankara, Türkiye

Aylin Adem, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

ID 210 Multi-Objective Optimisation of Hybrid Solar-Wind Systems with Integrated Production and Maintenance Planning Using NSGA-II

Aminu Tijjani, Computer Engineering, Production and Maintenance Laboratory (LGIPM), Université de Lorraine, Metz, France and Aliko Dangote University of Science and Technology, Wudil, Department of Electrical Engineering, Wudil, Kano, Nigeria

Aime Nyongue and Zied Hajej, Computer Engineering, Production and Maintenance Laboratory, (LGIPM), Université de Lorraine, Metz, France

Basma Boujoudi, ENS-Rabat, Physics Department, Mohammed V University, Rabat, B.P.5118, Morocco

ID 280 Assessing Customer Satisfaction Improvement After Applying Total Quality Management Principles in Facility Operations

Omar Aljuraiyed, Lotfi Hidri and Mohammed M. Sharaf, Department of Industrial Engineering, King Saud University, Riyadh, Saudi Arabia

June 24, 2026 (Wednesday) - Session: 16:00 – 17:30

16:00 – 17:30, Wednesday

Onsite Room 5

Session Chair: Ece Arzu Yıldız, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

Supply Chain Management and Logistics

ID 184 Risk Strategy of Halal Supply Chain on Free Nutritious Meals Program in Indonesia

Fitra Lestari and Tengku Nurainun, Industrial Engineering Department, Faculty of Science and Technology, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

Reski Mai Candra, Informatics Department, Faculty of Science and Technology, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

Fadhilah Syafria, Informatics Department, Faculty of Science and Technology, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

ID 195 IA et l'alignement stratégique et fonctionnel en SCM : Modèle de maturité organisationnelle

Abdellatif Ait Kerroum, Faculté des sciences juridiques, économiques et sociales d'Agadir, Morocco

ID 207 A Home Healthcare Routing and Scheduling Problem with a Mixed Electric–Conventional Fleet: An ALNS Heuristic Guided by Reinforcement Learning

Shiva Sheykhi, M.Sc. Student, Industrial Engineering Department, Ozyegin University, Istanbul, Türkiye

Elvin Çoban, Associate Professor, Industrial Engineering Department, Ozyegin University, Istanbul, Türkiye

ID 247 Disruption Scenarios and Resilience Assessment Techniques for Additive Manufacturing-Enabled Spare Parts Supply Chains

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

ID 322 Multi-Agent Reinforcement Learning for Inventory and Transshipment Management in a Decentralized Supply Chain

Fatemeh Rostambeygi, Dr. Gabrielle Peko, Dr. and Lisa Hillas, Department of Information System and Operation Management, Faculty of Business and Economics, University of Auckland, Auckland, New Zealand

Michael O'Sullivan, Associate Professor, Department of Engineering Science, Faculty of Engineering, University of Auckland, Auckland, New Zealand

ID 327 Detecting Economic Risk Through Spatiotemporal Relations Among Domestic, Allied-Supplier, and Market Expectation Indicators: A U.S. Case Study

Behzad Sanaei, Lecturer, Department of Industrial Engineering, Cyprus International University, Nicosia, North Cyprus, Mersin 10, Türkiye

June 24, 2026 (Wednesday) - Session: 16:00 – 17:30

16:00 – 17:30, Wednesday

Onsite Room 6

Session Chair: Yusuf Seçer, Assistant Professor, Department of Industrial Engineering, Baskent University, Ankara, Türkiye

Artificial Intelligence and Data Science

ID 156 Machine Learning–Based Early Warning Model for Next-Month Liquidity Stress in EPC Construction Projects Using ERP Financial Indicators

Daskon Priyanama Imiyage, MBA, Cardiff Metropolitan University, ACMA CGMA, CPA Australia, Independent Researcher, Saudi Arabia

ID 183 Data-Driven Assessment of Beef Cattle Management Practices for Sustainable Livestock Systems in Smallholder Farming

Yendraliza, Departemen of Animal Husbandry, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

Rahmat Tulahidayah, Departemen of Animal Husbandry, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

Sri Murhayati, Departemen of Animal Husbandry, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

Akbarizan, Faculty of Sharia and Law, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia
Fitra Lestari, Industrial Engineering Department, Faculty of Science and Technology, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

ID 197 The Impact of Event Log Noise on Predictive Process Monitoring Performance
Sinan Salman, Associate Professor, Systems Engineering, Zayed University, Abu Dhabi, UAE

ID 400 NOOVOY AI: An AI-Powered Neuroadaptive Workforce Intelligence Platform for Employee Well-being, Engagement, and Organizational Resilience
Semail Ülgen, Professor, Department of Industrial Engineering, Antalya Bilim University, Antalya, Türkiye
Havva Cebel, Department of Industrial Engineering, Antalya Bilim University, Antalya, Türkiye

Facilities Planning and Layout

ID 235 A Sequential Simulation-Heuristic Framework for Facility Layout Evaluation and Line-Side Feeding in a Petrochemical Filling Plant
Yusuf Seçerdin, Assistant Professor, Department of Industrial Engineering, Baskent University, Ankara, Türkiye

June 25, 2026 (Thursday)

07:00 - 17:00 Registration and Networking

June 25, 2026 (Thursday) - Session: 10:00 – 13:00

10:00 – 13:00, Thursday

Onsite Auditorium

Keynotes

10:00 - 10:30 Keynote: Dr Sinan Onal, Professor and Chair of Industrial Engineering, Southern Illinois University, Edwardsville (SIUE), Edwardsville, Illinois, USA

10:30 - 11:00 Keynote: Dr. Fitra Lestari, Professor, Industrial Engineering Department, UIN Sultan Syarif Kasim Riau, Indonesia

11:00 - 11:30 Keynote: Dr. Adem Kayar, Founder and CEO, MCS Factory Digitalization, Istanbul, Türkiye

11:30 - 12:00 Keynote:

12:00 - 13:00 Keynote: Dr. Ali Allahverdi, Professor, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

13:00 – 14:00 Lunch Break

June 25, 2026 (Thursday) - Session: 14:00 – 15:30

14:00 – 15:30, Thursday

Onsite Room 1

Panel

June 25, 2026 (Thursday) - Session: 14:00 – 15:30

14:00 – 15:30, Thursday

Onsite Room 2

Session Chair: Metin Türkay, Prof. Dr., Industrial Engineering and Operations Management, Koc University, Istanbul, Türkiye

Simulation, Optimization and Productivity Improvement

ID 113 Improving Predictive Maintenance Using a Machine Learning Based Digital Twin in an Automotive Textiles Manufacturer
Kaan Kadioğlu, İstanbul Medipol University, Türkiye

ID 163 A MILP Solution of Joint Production and Maintenance Planning with a Predicted Remaining Useful Life Through XGBoost Method

Selin Özdemir, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye

M. Ebru Angün, Assoc. Prof. Dr., Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye, Istanbul, 34349, Türkiye

ID 198 Scheduling of Unrelated Parallel Machines with Secondary Resources and Interdependent Jobs

Hakan Gultekin, Department of Mechanical and Industrial Engineering, College of Engineering, Sultan Qaboos University, Muscat, Sultanate of Oman

Nasr Al-Hinai, Department of Mechanical and Industrial Engineering, College of Engineering, Sultan Qaboos University, Muscat, Sultanate of Oman

ID 215 Graph Neural Network and Multi-Objective Optimization for Personalized Cosmetic Recommendation

Sıla Kaya, Süleyman Güzel, Başak Kasapçopur, and Gülçin Dinç Yalçın, Department of Industrial Engineering, Eskişehir Technical University, Türkiye

ID 246 Bridging Planning and Operations: A Dynamic Terrain-Evolution Simulation Framework for Strip Mining Integrating Dozer and Dragline Operations: Application to Selective Mining, Byproduct Extraction, and Operational

Noaman Bouhlali, Abdellatif Elghali, Yassine Taha and Mostafa Benzaazoua, Geology & Sustainable Mining Institute, Mohammed VI Polytechnic University, Lot-660, Benguerir 43150, Morocco

ID 286 Multi-Level Hybrid Optimization Model of Value Stream Mapping

Ali Hasan, PhD Candidate, Industrial Engineering and Operations Management, Koc University, Istanbul, Türkiye

Metin Türkay, Prof. Dr., Industrial Engineering and Operations Management, Koc University, Istanbul, Türkiye

June 25, 2026 (Thursday) - Session: 14:00 – 15:30

14:00 – 15:30, Thursday

Onsite Room 3

Session Chair: Salih Tekin, Industrial Engineering Department, TOBB University of Economics and Technology, Ankara, Türkiye

Quality, Reliability and Maintenance

ID 56 Towards SPC 5.0: Synthesizing Industry 5.0 Principles and SPC Design into an Integrated Framework and Research Agenda

Ali Baştaş, Assistant Professor, Industrial Engineering, Department of Industrial Engineering, Eastern Mediterranean University, Famagusta, North Cyprus via Mersin 10, Türkiye

ID 66 Spare Parts Logistics for Lunar Base Maintenance: Earth-Based Resupply versus In-Situ Repair

Tongdan Jin, Fabilha Mannan, and Asma Ul Husna, Ingram School of Engineering, Texas State University, San Marcos, TX 78666, USA

ID 83 Risk Averse Planning for Maintaining a Deteriorating System Subject to Non-Self-Announcing Failures

Niyazi Onur Bakır, Associate Professor, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Oman

Salih Tekin, Assistant Professor, Department of Industrial Engineering, TOBB University of Economics and Technology, Ankara, Türkiye

Büşra Keleş, Assistant Professor, Department of Management, Frostburg State University, MD 21532, USA

ID 85 An Analytical Formulation of the Conformance-Quality Loss Relationship using Probabilistic Process Mean Shifts

Burak Birgören, and Salih Tekin, Industrial Engineering Department, TOBB University of Economics and Technology, Ankara, Türkiye

ID 96 Condition Based Maintenance Policies for a 2-out-of-3 Redundant System under Imperfect Maintenance Actions

Salih Tekin, Industrial Engineering Department, TOBB University of Economics and Technology, Ankara, Türkiye

June 25, 2026 (Thursday) - Session: 14:00 – 15:30

14:00 – 15:30, Thursday

Onsite Room 4

Session Chair: Ebru Yüksel Haliloğlu, Assoc. Prof., Industrial Engineering Department, Gazi University, Ankara, Türkiye

Business Management and Operations Management

ID 57 Strategic Assumption Surfacing and Testing (SAST) Through the Quadruple Helix Model for Islamic Negotiator Strategy In Community Development

Muhammad Wadi and Muhammad Zaki, Postgraduate Department, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

Ulfah, Faculty of Medicine, University of Riau, Indonesia

Fitra Lestari, Industrial Engineering, Department of Sultan Syarif Kasim State Islamic University, Riau, Indonesia

ID 61 From Schedule Monitoring to Operational Intelligence: Workforce Bottleneck Analytics in Construction

Muhammad Rilly Aka Yogi, Faculty of Engineering, Universitas Riau, Indonesia

Fitra Lestari, Industrial Engineering Department, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

ID 65 A Guideline to Integrate Trade Intelligence Simulations into Actionable Insights

Osman Gulseven, Associate Professor and WTO Chair, Department of Natural Resource Economics, College of Agricultural and Marine Sciences, Sultan Qaboos University, Muscat, Sultanate of Oman

ID 80 Analysis of the Socioeconomic Structures of BRICS Countries and Türkiye Using Multi-Criteria Decision-Making Techniques

Furkan Batın Esgin, MSc Student, Industrial Engineering Department, Gazi University, Ankara, Türkiye
Ebru Yüksel Haliloğlu, Assoc. Prof., Industrial Engineering Department, Gazi University, Ankara, Türkiye
Mehmet Kabak, Prof., Industrial Engineering Department, Gazi University, Ankara, Türkiye

ID 158 The Assessment Procedure for AI-Driven Academic Writing Tools Utilizing OWCM and PIV Methodologies

Erdem Aksakal, Department of Industrial Engineering, Atatürk University, Erzurum, Türkiye
Emre Caliskan, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

ID 185 Does Ethical Leadership Enhance Employee Green Behaviour In Manufacturing Industry Of Pakistan? A Moderation And Mediation Model

Muhammad Arif Khattak, Department of management sciences, Bahria University, Islamabad, Pakistan

ID 302 Synergizing Contribution Margin Approach and Activity Based Costing Method for Achieving Optimal Product Mix

Ahmad R. Sarfaraz, Professor, Manufacturing Systems Engineering and Management Department, California State University, Northridge, USA
Zohreh Ghajari, Finance Manager, Pars Insurance Co., Tehran, Iran

June 25, 2026 (Thursday) - Session: 14:00 – 15:30

14:00 – 15:30, Thursday

Onsite Room 5

Session Chair: Özen Ergezer, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

Supply Chain Management and Logistics

ID 67 A Response Surface and Game-Theoretic Approach to Competitive Pricing and Delivery-Time Decisions

Saleem Zeyad Ramadan, Department of Industrial Engineering, Al Hussein Technical University, Amman, Jordan

ID 100 A Multi-City Technician Routing and Scheduling Problem with Time Windows, Travel Preferences, and Accommodation Decisions

Yagmur Selenay Selcuk, Graduated Teaching and Research Assistant, Industrial Engineering Department, Ozyegin University, Istanbul, Türkiye
Okan Orsan Ozener, Professor, Industrial Engineering, Ozyegin University, Istanbul, Türkiye

ID 108 Joint Optimization of Production Rate and Sustainability Costs in a Multi-Buyer Vendor System

Muhammad Ahmad Iqbal, Lecturer, Industrial Engineering Department, Al Yamamah University, Al Khobar, Kingdom of Saudi Arabia

ID 164 Servitization of Manufacturing in a disruptive era: Assessing resilience strategies in South Africa's FMCG sector

Jonas Mathabatha, Department of Applied Management, University of South Africa, Gauteng, Pretoria, South Africa

ID 181 A Hybrid Adaptive ϵ -Constraint Framework for Pareto Front Approximation in Multi-Objective Mixed-Integer Optimization

Özen Ergezer, Department of Industrial Engineering, Gazi University, Ankara, Türkiye
Gonca Yıldırım, Assistant Professor, Department of Industrial Engineering, Gazi University, Ankara, Türkiye
Fulya Altıparmak, Professor, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

ID 182 Adaptive Large Neighborhood Search Algorithm for Home Healthcare Routing and Scheduling Problem with Mixed Fleet

Gulcin Dinc Yalcin, Associate Professor, Industrial Engineering Department, Eskisehir Technical University, Eskisehir, Türkiye
Tugce Yavuz, Assistant Professor, Industrial Engineering Department, Atılım University, Ankara, Türkiye
Melis Alpaslan Takan, Associate Professor, Industrial Engineering Department, Bilecik Seyh Edebali University, Bilecik, Türkiye

June 25, 2026 (Thursday) - Session: 14:00 – 15:30

14:00 – 15:30, Thursday

Onsite Room 6

AI and Machine Learning Workshop

Mohammad Islam

Associate Director, Optum – United Healthcare Inc.

New Jersey, United States of America

Break 15.30 – 16.00

June 25, 2026 (Thursday) - Session: 16:00 – 17:30

16:00 – 17:30, Thursday

Onsite Room 1

Panel – IEOM Student Chapters

Panel Chair: Prof. Don Reimer

June 25, 2026 (Thursday) - Session: 16:00 – 17:30**16:00 – 17:30, Thursday****Onsite Room 2**

Session Chair: Sena Kumcu, Faculty of Engineering, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

Artificial Intelligence and Data Science**ID 2 Emerging Technologies And Africa: AI and Digitalization**

Joel Omini, PhD Student, Department of Management Information Systems, Cyprus International University, Nicosia, North Cyprus

ID 25 Geometry-Weighted Regression for Stable Amortized Optimization in HVAC ControlKiran Anwar, PhD Candidate, Computational Sciences and Engineering Department, Koc University, Istanbul, Türkiye
Erdal Aydın, Asst. Professor, Chemical and Biological Engineering Department, Koc University, Istanbul, Türkiye
Metin Turkay, Professor, Industrial Engineering Department, Koc University, Istanbul, Türkiye**ID 36 Model Validation Of Pothole Detection Algorithm Using Precision, Recall, and Confusion Matrix Analysis**Victor Rambau and Thomas Munyai, Department of Operations Management, Tshwane University of Technology, Pretoria, South Africa
Olasumbo Makinde, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa**ID 38 Differentiating PMF–ET/PV using Gene Expression Data: A Pipeline Approach**Yesim Kayabas Alkan, Research Assistant, Industrial Engineering Department, Tokat Gaziosmanpasa University, Tokat, Türkiye
Mehmet Kabak, Professor, Industrial Engineering Department, Gazi University, Ankara, Türkiye**ID 39 The Impact of Fuzzy Integration on Explainable Artificial Intelligence**

Dilara Çetinkaya and Özlem Müge Testik, Industrial Engineering Department, Hacettepe University, Ankara, Türkiye

ID 72 AI-Driven Influencer Marketing and Consumer Trust: The Mediating Role of Perceived Authenticity

JUIHER El Mahdi and OUADDI Hmad, FSJES Agadir, Université Ibn Zohr, Morocco

ID 387 Artificial Intelligence in Medical Waste Management: Research Trends and Future DirectionsSena Kumcu, Faculty of Engineering, Department of Industrial Engineering, Gazi University, Ankara, Türkiye
Ece Arzu Yıldız, Faculty of Engineering, Department of Industrial Engineering, Gazi University, Ankara, Türkiye**June 25, 2026 (Thursday) - Session: 16:00 – 17:30****16:00 – 17:30, Thursday****Onsite Room 3**

Session Chair: Bahadır Yörür, Industrial Engineering Department, Kütahya Dumlupınar University, Kütahya, Türkiye

Sustainability, Green Systems and Energy**ID 139 Comparison of Classical and AI-Based Methods for Short-Term Hourly Electricity Demand Forecasting in Türkiye**Ebrar Emin GÜMRÜK, Gazi University, Graduate School of Natural and Applied Sciences, Department of Industrial Engineering, Ankara, Türkiye
Ayyüce Aydemir KARADAĞ, Gazi University, Faculty of Engineering, Department of Industrial Engineering, Ankara, Türkiye**ID 147 The Optimal Sustainable Insulation Material by Using MCDM Analysis**

Hadeel Ismail Dweib and Mahmut Zortuk, Kütahya Dumlupınar Üniversitesi, Türkiye

ID 223 Forecasting Electricity Consumption of Türkiye via Time Series Analysis with Fuzzy C-Means Clustering and Markov ChainBahadır Yörür, Industrial Engineering Department, Kütahya Dumlupınar University, Kütahya, Türkiye
Mustafa Ünver, Industrial Engineering Department, Maltepe University, İstanbul, Türkiye
Nihal Erginel, Industrial Engineering Department, Eskişehir Technical University, Eskişehir, Türkiye**Circular Economy****ID 389 Design for Circularity in The Textile Sector: Key Influencers and Trends**

Mürüvvet Deniz Sezer, Assistant Professor, Business Administration Department, Yaşar University, İzmir, Türkiye

June 25, 2026 (Thursday) - Session: 16:00 – 17:30**16:00 – 17:30, Thursday****Onsite Room 4**

Session Chair: Berna Ağıldere, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

Automation, Robotics and Autonomous Systems

ID 112 Autonomous Biometric Access Control Using NADRA Integration for Smart Residential Security Systems

Rida Akbar, Assistant Professor, Lahore Business School, The University of Lahore, Pakistan

ID 142 Predictive Quality-Based Optimization of Lifetime Testing in Durable Home Appliances Using Unsupervised Deep Learning

Yigit Elarслан, Ceren Eda Cicek and Efe Ozkaynak Undergraduate, Department of Industrial Engineering, Eskisehir Technical University, Eskisehir, Türkiye

Gulcin Dinc Yalcin, Associate Professor Doctor, Department of Industrial Engineering, Eskisehir Technical University, Eskisehir, Türkiye

Eren Guvenilir, Department of Physics, Eskisehir Osmangazi University, Eskisehir, Türkiye and Haier Europe, Eskisehir, Türkiye

ID 317 Development of an Industry 4.0-Based Smart Monitoring System for 3D Printed Support Structure Removal

Mohammed A. Noman and Wadea Ameen, Industrial Engineering Department, College of Engineering, Al-Yamamah University, Riyadh, Saudi Arabia

ID 238 Circular Economy-Oriented Routing of End-of-Life Smartphones: A Device Circularity Readiness Score and Bi-Objective NSGA-II Optimization Framework

Sinan Doğukan YILMAZ, MSc Student, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye

Müjde EROL GENEVOIS, Professor, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye

ID 136 Analysis of Multi-Bin Storage/Retrieval Strategies in Robotic Compact Storage and Retrieval Systems

Mahmut Tutam, Associate Professor, Department of Industrial Engineering, Erzurum Technical University, Erzurum, Türkiye

Turgay Duman, Assistant Professor, Department of Electrical and Electronics Engineering, Erzurum Technical University, Erzurum, Türkiye

ID 400 NOOVOY AI: An AI-Powered Neuroadaptive Workforce Intelligence Platform for Employee Well-being, Engagement, and Organizational Resilience

Semail Ülgen, Professor, Department of Industrial Engineering, Antalya Bilim University, Antalya, Türkiye

Havva Cebel, Department of Industrial Engineering, Antalya Bilim University, Antalya, Türkiye

June 25, 2026 (Thursday) - Session: 16:00 – 17:30**16:00 – 17:30, Thursday****Onsite Room 5**

Session Chair: Gülçin Büyükoğkan, Professor, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye

Lean Six Sigma and Inventory Control**ID 14 Sustaining Continuous Improvement in Manufacturing: Shifting from Activity to System Design**

Thilanka Hettiarachchi, Student, Manufacturing Professional, Savonia University of Applied Sciences, Kuopio, Finland

ID 229 The Impact of Inventory Management Strategies on Financial Performance Metrics in the Pharmaceutical Industry

Sinan Doğukan Yılmaz, MSc Student, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye

Gülçin Büyükoğkan, Professor, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye

ID 296 Review-Driven Social Learning in Expiration-Date-Based Pricing of Perishable Products

Mahmud Vahdani, Assistant Professor, Industrial Engineering Department, Kosar University of Bojnord, Bojnord, Iran

Zeinab Sazvar, Associate Professor, Industrial Engineering Department, University of Tehran, Tehran, Iran

ID 392 A Leakage-Aware AutoML Framework for Wind Power Forecasting: Assessing Physical Consistency via SHAP

Tuğçe İnağ, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

Büşra Bişkin, Department of Industrial Engineering, National Defense University, Ankara, Türkiye

Gül Didem Batur Sir, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

June 25, 2026 (Thursday) - Session: 16:00 – 17:30**16:00 – 17:30, Thursday****Onsite Room 6****AI and Machine Learning Workshop**
STEPPING INTO AI & MACHINE LEARNING – Workshop
INSTRUCTOR-LED WORKSHOP WITH HANDS-ON TRAINING**Mohammad Islam**

Associate Director

Optum – United Healthcare Inc.
New Jersey, United States of America

Virtual - Day 1 (Tuesday, June 23)

June 23, 2026 (Tuesday) - Session: 8:00 – 10:00

8:00 – 11:00, Tuesday

Virtual Zoom Room 7

Session Chair: Dr. Mizanur Rahman, IEOM Australia

Competitions - Online

Undergraduate Student Paper Competition Sponsored by Siemens - Online

ID 196 Design and Instrumentation of a Venturi Flow Meter for Aircraft Fuel Systems

Ahmed Abdulaziz J. Almanasif, Industrial Engineering Department, Faculty of Engineering, Islamic University of Madinah, Madinah, Saudi Arabia

Undergraduate Research Competition sponsored by Daikin Applied - Online

ID 206 Kinematic Analysis and Dimensional Synthesis of a Slider-Crank Coupled Rocker Mechanism for Automated Carton Flap Closing

Ali Alrasheed, Mohammad Alnabhan, Mohammad Alhamshi, Mohammad Boushehri, Naser Hussain and Eddie Gazo-Hanna, College of Engineering and Technology, American University of the Middle East, Egaila 54200, Kuwait

Supply Chain Management and Logistics Competition sponsored by aThingz - Online

ID 253 A Decision-Making Framework for VMI and RMI Contracts Under Dynamic, Deterministic, and Stochastic Demand

Rachida Benfedel, Manufacturing Engineering Laboratory of Tlemcen, University of Tlemcen, Tlemcen, Algeria

Nadjib Brahimi, Rennes School of Business, Rennes, France

Fayçal Belkaid, Manufacturing Engineering Laboratory of Tlemcen, University of Tlemcen, Tlemcen, Algeria

Senior Design Project / FYP Competition - Online

ID 81 Optimization of Job Shop Scheduling Using Dispatching Rules and Genetic Algorithms: An Industrial Case Study at Al-Rayef Factory for Aluminum and Glass

Norah Saeed Abdullah Aseri, Hawazin Ali Dhafer Alqhtani, Dareen Ali Salem Al-Ahmari, Ghadi Abdullah Mohamed Al-Asmari, and Waad Ali Talhan Al-Ahmari, Undergraduate Students, Industrial Engineering Department, King Khalid University, Abha, Saudi Arabia

Abir Mouldi, Assistant Professor, Industrial Engineering Department, King Khalid University, Abha, Saudi Arabia

ID 228 Design and Optimization of Daily Distribution System for a Fast-Moving Consumer Goods Company

Lama Salim Al Hasani and Abdalrhman Salim Al Farsi, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Oman

Hakan Gultekin, Department of Mechanical and Industrial Engineering, Sultan Qaboos University, Muscat, Oman

ID 251 Design and Validation of a Web-Based Campus Companion for Wayfinding and Academic Assistance

Ali M M AlArbash, Ahmad Talal Ali AlShooli, Othman Salem Alrasheedi, Mohammad Tariq Al Fares, Saleh M S AlMezaini and Alperen Bal

College of Engineering and Technology, American University of the Middle East, Kuwait

Simulation Competition - Online

ID 212 Structural Optimization of Truck Tanks: Safety and Structural Integrity Enhancements for Oil Transport Vehicles in Kuwait.

Mohamed Abouelela, Athari AlBesees, Awrad Marrafi, Badreyah AlOtaibi, May AlGhais, and Roaa AlTemimi, American University of the Middle East, Block 6, Building 1, Egaila, Kuwait

Doctoral Dissertation Competition sponsored by Airbus - Online

ID 6 Developing a performance management scorecard for private secondary schools in the eThekweni Municipality

Debapriyo Nag, PhD Candidate, Northwest University- Potchefstroom Campus, Academic Program Leader, Master of Commerce MANCOSA

Durban, Debapriyo Nag, MANCOSA, Durban, South Africa

ID 145 Dynamic Response of High-Rise Prefabricated Modular Buildings

Shreeja Kacker, Jamia Millia Islamia University, India

ID 368 Turnover Intention Predictors in Aviation Maintenance Workforce in India

Amogh Warhadpande, Human Resources Department, Alliance School of Business, Alliance University, Bengaluru, Karnataka, India

Pratima Verma, Human Resources Department, Alliance School of Business, Alliance University, Bengaluru, Karnataka, India

Master's Thesis Competition - Online

ID 70 Analysing Operational Challenges of Small, Medium and Micro Enterprises and Support Systems for their Sustainability in Polokwane Municipality

Malatsoa Blondie Marcus Molepo, Master in Operations Management, Department of Quality and Operations Management, Faculty of Engineering and The Built Environment, University Of Johannesburg, South Africa
Madonsela, Advisor and Professor, Department of Quality and Operations Management, Faculty of Engineering and The Built Environment, University Of Johannesburg, South Africa

Graduate Student Paper Competition Sponsored by EATON Corporation – Online**ID 350 Advancing Green Development through a Five Dimensions of Sustainability-Based Assessment Model for Residential Micro-Infrastructure in Jakarta**

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

ID 159 Railroad Public Transport in the New York Metropolitan Area: Challenges and Insights from a Reliability Perspective

Kartik Sahay, PhD Student, Bailey College of Engineering and Technology, Indiana State University, Terre Haute, Indiana 47809, USA
M. Affan Badar, Professor, Bailey College of Engineering and Technology, Indiana State University, Terre Haute, Indiana 47809, USA

Human Factors and Ergonomics Competition - Online**ID 43 Prevalence of Musculoskeletal Distress in Economy-Class Flights: A Temporal and Postural Observational Study**

Sukhleen Kaur Walia, Tarang Mittal, and Khanak Sethi, Production and Industrial Engineering Department, Punjab Engineering College (Deemed to be University), Chandigarh, India

Navin Ranga, Department of Electrical Engineering, Institut National des Sciences Appliquées de Lyon (INSA Lyon), Villeurbanne, France

Raminder Kaur, Associate Professor, Department of Applied Chemistry, Delhi Technological University, Delhi-110042, India

ID 245 Multimodal Distraction and Driving Safety: A Statistical Study of Smartphone, Smartwatch, and HMI Usage in Kuwait

Retaj AlEnezi, College of Engineering and Technology, American University of the Middle East, Egaila, Kuwait

Rayan AlAnsari, College of Engineering and Technology, American University of the Middle East, Egaila, Kuwait

Batoul Ali, College of Engineering and Technology, American University of the Middle East, Egaila, Kuwait

Maram AlRasheedi, College of Engineering and Technology, American University of the Middle East, Egaila, Kuwait

Reem AlAli, College of Engineering and Technology, American University of the Middle East, Egaila, Kuwait

Mohammed Obeidat, College of Engineering and Technology, American University of the Middle East, Egaila, Kuwait

Poster Competition - Online**ID 138 A Multi-Domain Resilience Modeling Framework: Assessing the Impact of Future Disruptions on Initiative Selection**

Anfal Alshamali and Ayedh Almutairi, College of Industrial and Management Systems Engineering, Kuwait University, Kuwait

ID 278 Projection of Electricity Generation Profiles and Carbon Emissions Towards 2060: The Indonesian Context

La Ode Masri Ande Kolewora and Virtuous Ikmal Wicaksono, Master's Program in Systems Engineering, Renewable Energy Concentration, University of Gadjah Mada, Yogyakarta, Indonesia

Ahmad Agus Setiawan, Department of Nuclear Engineering and Engineering Physics, University of Gadjah Mada, Yogyakarta, Indonesia

Arham, Master's Program in Systems Engineering, Renewable Energy Concentration, University of Gadjah Mada, Yogyakarta, Indonesia

Saiful. M, Master's Program in Systems Engineering, Renewable Energy Concentration, University of Gadjah Mada, Yogyakarta, Indonesia

Muhammad Taufiq, Master's Program in Systems Engineering, Renewable Energy, University of Gadjah Mada, Yogyakarta, Indonesia

Hani Nabillah, Master's Program in Systems Engineering, Industrial Systems Concentration, University of Gadjah Mada, Yogyakarta, Indonesia

Sri Wahyu Ningsih, Master's Program in Systems Engineering, Environmental Systems, University of Gadjah Mada, Yogyakarta, Indonesia

Andita Dewi Rinaldi, Master's Program in Systems Engineering - Digital Marketing, University of Gadjah Mada, Yogyakarta, Indonesia

Lean Six Sigma Competition - Online**ID 249 The Application of a Hybrid Lean Six Sigma Approach for the Improvement and Sustainability of Safety and Health (SH) for Workers and Customers at Petroleum Stations**

Mafaz Tifouni, Mariam Al Duaij, Muneerah AlKhubaizi, Fatemah AlFailakawi, Nourah Aba Alkhail, Hussam Ali AlOthman, American University of the Middle East, Kuwait

June 23, 2026 (Tuesday) - Session: 11:00 – 12:00**11:00 – 12:00, Tuesday****Virtual Zoom Room 7**

Session Chair: Amogh Warhadpande, Alliance University, India

Zoom Host: Aqib Islam, IEOM Bangladesh

Business Management and Operations Management**ID 357 How Fear and Disengagement Are Undermining Digital Innovation**

Sonia Khawand, Department of Business Management, Lebanese International University (LIU), Beirut, Lebanon

ID 361 Business Continuity Assessment of the Red Meat Supply Chain in the Greater Amman Municipality: An ISO 22301-Based Case Study

Asha Bayan and Abu Al Hummos Lujain, Students, Industrial Engineering Department, Al Hussein Technical University, Amman, Jordan

ID 367 Machine Learning and Automation as Drivers of Managerial Decision-Making in Modern Organizations

Bibinur Orazaliyeva, Kyrenia University, Cyprus

ID 371 Attitudinal Predictors and Employee Turnover Relationships – Search for the Holy Grail: A Review

Amogh Warhadpande, Alliance University, India

June 23, 2026 (Tuesday) - Session: 12:00 – 14:00

12:00 – 14:00, Tuesday

Virtual Zoom Room 7

Session Chair: Burcu Alatepli, International Trade and Finance Department, Alparslan Türkeş Science and Technology University, Adana, Türkiye

Supply Chain Management and Logistics

ID 288 A Hybrid Predictive–Prescriptive Framework for Retail Supply Chain Optimization under Demand and Quality

Abdülvahap Özdemir, Industrial Engineering M.Sc. Student, Istanbul Ticaret University, Istanbul, Türkiye

Emel Şeyma Küçükaşçı, Asst. Prof. Dr., Industrial Engineering Department, Istanbul Ticaret University, Istanbul, Türkiye

ID 19 AI- Human Synergy: Accelerating Smarter Customs and Supply Chains

Burcu Alatepli, Assistant Professor, International Trade and Finance Department, Alparslan Türkeş Science and Technology University, Adana, Türkiye

ID 106 Design and Evaluation of a PDA-RFID-Based Digital Inventory System for Warehouse Operations

Fitriadi, and Hwi-Chie Ho, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, 11480, Indonesia

ID 346 Developing a Conceptual Framework for Examining the Effect of Logistics Management Practices on Agri-Food Firm Performance

Nguyen Thi Le Thuy, College of Engineering, Can Tho University, Can Tho 940000, Vietnam

Ngo My Tran, School of Economics, Can Tho University, Can Tho 940000, Vietnam

June 23, 2026 (Tuesday) - Session: 14:00 – 16:00

14:00 – 16:00, Tuesday

Virtual Zoom Room 7

Session Chair: Derya Deliktaş, Kütahya Dumlupınar University Engineering Faculty, Industrial Engineering Department, Kütahya, Türkiye

Zoom Host: Siyam Hasan, IEM, KUET, Bangladesh

Operations Research

ID 225 A Multi-Type Capacity Allocation Model for Field Hospital Location

Betül Çoban Yelken, Assistant Professor, Industrial Engineering Department, Abdullah Gül University, Kayseri, Türkiye

Bensu Topkul, Student, Industrial Engineering Department, Abdullah Gül University, Kayseri, Türkiye

ID 295 Cost-Driven Scenario Reduction via Data-Space K-means and Nearest Economic Selection for Stochastic Programming

Kanisorn Sritapak, and Udom Janjarassuk, Department of Industrial Engineering, School of Engineering, King Mongkut's Institute of Technology

Ladkrabang, Bangkok, 10520, Thailand

ID 365 Single Machine Scheduling Problem with Learning and Deterioration Effects and Sequence-Dependent Setup Times

Mügenur Ünal, Gamze Ağan, and Derya Deliktaş, Kütahya Dumlupınar University Engineering Faculty, Industrial Engineering Department, Kütahya, Türkiye

ID 391 Cost-Driven Storage Substitution in Renewable Ammonia Production: A Multi-Storage Optimization Approach

Dalal Almansoori, Department of Management Science and Engineering, Khalifa University, P. O. Box 127788, Abu Dhabi, UAE

Toufic Mezher, Department of Management Science and Engineering, Khalifa University, P. O. Box 127788, Abu Dhabi, UAE

Ahmed AlHajaj, Department of Chemical and Petroleum Engineering, Khalifa University, P. O. Box 127788, Abu Dhabi, UAE

June 23, 2026 (Tuesday) - Session: 16:00 – 18:00

16:00 – 18:00, Tuesday

Virtual Zoom Room 7

Session Chair: Shaymaa Safadi, Gaziantep University, Türkiye

Zoom Host: Dr. Nazrul Islam, IEOM Canada

Artificial Intelligence and Data Science

ID 7 Turning waste tyres into handmade Ottomans

Elizabeth Mtizwa, UNISA, South Africa

ID 287 LSTM-Based Procedural Symbolic Music Generation Using Sequential MIDI Pitch Modeling

Nimet Karabacak, Assistant Professor, Industrial Engineering Department, Istanbul Nişantaşı University, Istanbul, Türkiye

ID 155 AI-Enhanced Particle Size and Shape Analysis Using MATLAB Image Processing with Comparative Evaluation of Deep Learning Algorithms

G. Jawahar Santosh, M. Anwesh Reddy, B. Krishnaveni, N. Bhoopal, and Varahala Shanthan, JNGP Polytechnic College Ramanthapur, Department of Chemical Engineering, Hyderabad, Telangana, India and B.V. Raju Institute of Technology, Department of Electrical Engineering, Vishnupur, Narsapur, Medak, Andhra Pradesh, India

ID 144 Autonomous Resource Symbiosis: A Multi-Agent AI Framework for Real-Time Optimization of Energy–Water–Waste Systems in Smart Cities

Nitesh Prajapati, Dept Of Computer Science and Engineering, Babu Banarasi Das Northern India Institute of Technology, India

ID 189 Commodity Price Forecasting: A Systematic Literature Review

Safa Boukachab, Departmental Management Sciences Unit, Université du Québec à Rimouski Lévis, Canada
Loubna Benabbou, Departmental Management Sciences Unit, Université du Québec à Rimouski Lévis, Canada

ID 153 Conflict-Indexed Demand Forecasting in War Zones Using LSTM and Checkpoint-Aware Features

Shaymaa Safadi, Gaziantep University, Türkiye
Nadjib Brahimi, Rennes School of Business, France
Mohanad Rezeq, Assistant Professor, Faculty of Administrative and Finance Sciences, Palestine
Mohammad Kouali, Assistant Professor, Palestine Ahliya University, Palestine

June 23, 2026 (Tuesday) - Session: 18:00 – 20:00**18:00 – 20:00, Tuesday****Virtual Zoom Room 7**

Session Chair: Mehmet Savsar, Professor of Industrial Engineering, Üsküdar University, Istanbul, Türkiye
Zoom Host: Dr. Nazrul Islam, IEOM Canada

Human Factors, Ergonomics and Healthcare Systems**ID 224 Designing a Board Game for Children with Attention Deficit Hyperactivity Disorder: A Quality Function Deployment Approach**

Nala Rohmatul Umma, Industrial Engineering Study Program, Telkom University Surabaya Campus, Surabaya 60231, East Java, Indonesia
Ilma Mufidah, Industrial Engineering Study Program, School of Industrial and System Engineering, Telkom University, Bandung, Indonesia
Huki Chandra, Industrial Engineering Study Program, Telkom University Surabaya Campus, Surabaya 60231, East Java, Indonesia
Dino Caesaron, Industrial Engineering Study Program, School of Industrial and System Engineering, Telkom University, Bandung, Indonesia
Silvi Istiqomah, Karina Dyah Purbosari, and Khansa Ananda Dewi Wahyudi, Industrial Engineering Study Program, Telkom University Surabaya Campus, Jl. Ketintang No.156, Surabaya 60231, East Java, Indonesia

ID 233 Evaluating the Usability of Synthetic Data for Machine Learning-Based Risk Prediction in Healthcare

Nur Sena Duman Çelikel, Graduate Program in Smart Systems Engineering, Galatasaray University, Istanbul, Türkiye
Müjde Erol Genevois, Professor, Dept. of Industrial Engineering, Galatasaray University, Istanbul, Türkiye

ID 243 Integrating Systems Engineering and Narrative Competence: A New Paradigm for Healthcare Quality and Clinical Ethics

Leyla Savsar Dericioğlu, Assistant Professor, English Literature, Istinye University, Istanbul, Türkiye
Mehmet Savsar, Professor of Industrial Engineering, Üsküdar University, Istanbul, Türkiye

ID 34 Structural Characteristics of a Tuberculosis Case Network for Public Health Decision-Making

Ece Arzu YILDIZ, Faculty of Engineering, Department of Industrial Engineering, Gazi University, Ankara, Türkiye

Simulation and Optimization**ID 402 Improving Bottling Assembly Line Through Simulation**

Rose Marie Gebara, Shiva Prasad Yallamla
Industrial Engineering Graduate Students
A. Leon Linton Department of Mechanical, Robotics, and Industrial Engineering
Lawrence Technological University, Southfield MI, USA

Ahad Ali
Director, Master of Science in Industrial Engineering Program
A. Leon Linton Department of Mechanical, Robotics, and Industrial Engineering
Lawrence Technological University, Southfield MI, USA

June 23, 2026 (Tuesday) - Session: 20:00 – 22:00**20:00 – 22:00, Tuesday****Virtual Zoom Room 7****Online Keynotes**

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

Senthilkumar Thiyagarajan, Ph.D.
Senior Supply Chain Analyst
Medline Industries, LP
Northfield, Illinois, USA

Siva Ravi
Director of Operations Excellence
Marketing Card Technology, LLC
Chicago, IL

Virtual - Day 2 (Wednesday, June 24)

June 24, 2026 (Wednesday) - Session: 8:00 – 10:00

8:00 – 10:00, Wednesday

Virtual Zoom Room 7

Session Chair: Dr. Mizanur Rahman, IEOM Australia

High School STEM Competition - Online

ID 190 A new approach to cancer treatment using multi-precision techniques

Abir Ahmad, High School, Lebanon

ID 152 AI and ML Driven Intelligent Streetlight System for Sustainable Energy Efficiency and Smart Urban Management

Aditya Krishan Goel, Class XI, The Shri Ram School, Aravali, Gurgaon, HR, India

ID 201 AuriSign: A Deep Learning-Based Real-Time Sign Language Recognition System

Aaliya Aadiya, BGS National Public School, India

ID 50 Bacterial Cellulose Based Scaffolds for Controlled Oxygen Delivery in Low-Resource Regions

Aarna Dwivedi, Student, Rick Reedy High School, Frisco, TX 75034, USA

Goutham Koppolu, Student, Centennial High School, Frisco, TX 75035, USA

ID 199 EcoGuard: An AI-Powered Real-Time Environmental Hazard Detection and Mapping System

Aaliya Aadiya, Independent Researcher & Student Developer, BGS National Public School, Hulimavu India

ID 220 Eco-Shield: Natural Edible Coatings to Reduce Fruit Waste and Environmental Impact

Soyee Lee, Chadwick International School, Incheon, Korea

Soyeon Shin, Chadwick International School, Incheon, Korea

Michael Lee, Crean Lutheran High School, Irvine, CA

Dakyung Lee, Mountain Cherry Academy, Yongin, South Korea

ID 22 Project Green-Sink: Redesigning Heat Sinks to Reduce Electricity Consumption

Aanya Patel, Student, Oberoi International School, Mumbai, India

ID 141 Sesizi: Artificial Intelligence-Based Early Parkinson's Disease Diagnosis Using Voice Analysis

Muhammed Eymen Tümtürk, Student, Van, Türkiye

June 24, 2026 (Wednesday) - Session: 10:00 – 12:00

10:00 – 12:00, Wednesday

Virtual Zoom Room 7

Session Chair: Gülçin Büyükoçkan, Professor, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye

Zoom Host: Aqib Islam, IEOM Bangladesh

Sustainability, Green Systems and Energy

ID 348 Advanced Thermal Modeling and Optimization of Solar Water Heating Systems for Hot-Arid Climates: A Sustainable Energy Perspective for Oman and GCC Regions

Ali Haghighi, Milad Heidari, and Pooyan Rahmanivahid, Department of Mechanical Engineering, GCET, Muscat, Oman

ID 77 An Integrated Approach to Renewable Energy Strategic Planning: Energy policy optimization and artificial intelligence for sustainable development

Ezile Mnukwa, Patrick S. Pouabe Eboule and Jan Harm C. Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

ID 320 An Integrated MCDM Framework for Provincial Wastewater Management Assessment in Türkiye

Yasemin ŞİRİN ERYOLDAŞ, Assistant Professor, Department of Industrial Engineering, Hasan Kalyoncu University, Gaziantep, Türkiye

ID 107 Optimizing Carbon Emission Mitigation Strategies Using Hesitant Fuzzy Methodology

Gülçin Büyükközkcan, Professor, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye
Fethullah Göçer, Assoc. Prof., Industrial Engineering, Kahramanmaraş Sütçü İmam University, Kahramanmaraş, Türkiye

ID 110 Analyzing Success Factors and Barriers to Spare Parts Sustainability in Lean JIT Systems: An AHP-Based Study in the Military Sector

Hamad Khalid Almasqari, Mechanical and Industrial Engineering Department, Qatar University, Doha, Qatar
Pilsung Choe, Mechanical and Industrial Engineering Department, Qatar University, Doha, Qatar

ID 154 Biomass Energy: Conversion Technologies, Operating Principles, and Applications

B. Krishnaveni, N. Varshini, N. Sarayou, N. Bhoopal and Varahala Shanthan
J.N. Government Polytechnic Ramanthapur, Department of Chemical Engineering, Hyderabad, India
Vignana Bharathi Institute of Technology, Department of Computer Science & Engineering, Hyderabad, India
Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology, Department of CSE-AIML, IoT & Robotics and AI, India
B.V. Raju Institute of Technology, Department of Electrical Engineering, Vishnupur, Narsapur, Medak, Andhra Pradesh, India

June 24, 2026 (Wednesday) - Session: 12:00 – 14:00**12:00 – 14:00, Wednesday****Virtual Zoom Room 7**

Session Chair: Gülçin Büyükközkcan, Professor, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye
Zoom Host: Aqib Islam, IEOM Bangladesh

Engineering Management and Project Management**ID 241 A Multi-Criteria Decision Support Framework for Artificial Intelligence Project and Large Language Model Selection**

Gül Mine Ak, MSc Student, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye
Gülçin Büyükközkcan, Professor, Industrial Engineering Department, Galatasaray University, Istanbul, Türkiye

ID 151 Hoysalas Raing Index - A Unique Rating Tool in Management

Kishore Hoysal S - GM - M/s MCON Rasayan India Limited, India
P S Sampth Professor, Dept of Mechanical Engineering, K.S. Rangasamy College of Technology, Námakkal, India

ID 194 Systematic Approaches to Change Management and Their Limitations: A Qualitative Analysis.

Kgabo Ramusi, Thembisile Monama and Jan Harm C. Pretorius, Postgraduate School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

ID 209 Modeling the Impact of Construction Delay Factors on Organizational Consequences.

Aminu Ahmad Aminu, Shamsuddin Ahmed, Yazeed Abdullah Alahmadi and Abdullahi Ahmed Mohamud, Faculty of Engineering, Department of Industrial Engineering, Islamic University of Madinah, 42351, Kingdom of Saudi Arabia

ID 208 Financial Projections and Risk Analysis in the Oil Distribution Sector: A Case Study of a Family-Owned Enterprise in Nairobi, Kenya

Abdullahi Ahmed Mohamud, Shamsuddin Ahmed and Aminu Ahmad Aminu, Faculty of Engineering, Department of Industrial Engineering, Islamic University of Madinah, 42351, Kingdom of Saudi Arabia

ID 362 Improving Service Level Through the Application of ABC-Slotting and SLP Methodologies to Enhance Service Level in a Construction Industry SME

Edgardo Martin Guarnizo-Chang, Facultad de Ingeniería, Universidad de Lima, Peru
Manuel Angel Ortega-Agreda, Facultad de Ingeniería, Universidad de Lima, Peru
Gino Evangelista Viacava-Medina, Research Professor, Facultad de Ingeniería, Universidad de Lima, Peru

ID 390 Improvements to Increase OEE in the Molding Area Using SMED and TPM at a Company in the Metallurgical Sector

Ana Patricia Romani-Navarro, Facultad de Ingeniería, Universidad de Lima, Peru
Bryan Israel Alvarado-Gregorio, Facultad de Ingeniería, Universidad de Lima, Peru
Ezilda Cabrera-Gil-Grados, Research Professor, Facultad de Ingeniería, Universidad de Lima, Peru

June 24, 2026 (Wednesday) - Session: 14:00 – 16:00**14:00 – 16:00, Wednesday****Virtual Zoom Room 7**

Session Chair: Ekrem Duman, Department of Industrial Engineering, Ozyegin University, Istanbul, Türkiye
Zoom Host: Siyam Hasan, IEM, KUET, Bangladesh

Artificial Intelligence and Data Science

ID 69 Exploring Structural Vulnerabilities and Risk Governance in Public Procurement: A Blockchain-Enabled Governance Framework

Marcus Molepo, Lecturer, Logistics and Supply Chain Management, IIE Rosebank College, South Africa
Mpho Mokgathi, Department of Commercial Accounting, School of Accounting, College of Business and Economics, University of Johannesburg, Johannesburg, Republic of South Africa

ID 18 Reducing Model Exposure Risk Through AI-Governed Feature Access Control

Chhaya Gunawat, System Development Engineer, Amazon, California, United States.
Jay Sunil Nankani, Software Developer, Redfin, California, United States.
Prathana Gunawat, ML Cloud Engineer, Amazon, Seattle, United States.

ID 250 Reducing Model Exposure Risk Through AI-Governed Feature Access Control

Jay Sunil Nankani, Redfin, United States

ID 162 Revisiting Debt Collections Assumptions: Evidence from Association Rule Mining Beyond Conventional Scorecards

Çağrı Çakır, Master of Science Candidate, Data Science, Özyeğin University, Istanbul, Türkiye

ID 289 Smart Meter Data Analytics For Loss Reduction In Power Distribution Systems In Nigeria

Israel Temitayo Ogundele, Faculty of Engineering Department of Engineering Management, Uskudar University, Istanbul, Türkiye
Mehmet Savsar, Professor of Industrial Engineering, Uskudar University, Istanbul, Türkiye

ID 300 Using Generative Adversarial Networks for Money Collections

Bora Özügüzel, Graduate Program in Data Science, Ozyegin University, Istanbul, Türkiye
Ekrem Duman, Department of Industrial Engineering, Ozyegin University, Istanbul, Türkiye

June 24, 2026 (Wednesday) - Session: 16:00 – 18:00**16:00 – 18:00, Wednesday****Virtual Zoom Room 7**

Session Chair: Betül Çoban Yelken, Assistant Professor, Industrial Engineering Department, Abdullah Gül University, Kayseri, Türkiye
Zoom Host: Dr. Nazrul Islam, IEOM Canada

Supply Chain Management and Logistics**ID 20 Digital Systems Enabling Predictability in Export Logistics**

Burcu Alatepeli, Assistant Professor, International Trade Department, Alparslan Türkeş Science and Technology University, Adana, Türkiye

ID 161 From Fragmentation to Integration: Automating Cross-Functional Planning Workflows for Proactive Production Management

Douiri Rokaya, Taraa Chaymae, Dadda Afaf, Elmoussami Haj, and Ezzine Latifa, Research Team: Modeling and Optimization of Industrial Systems
ENSAM School, Moulay Ismail University, Al Mansour, Meknes, Morocco

ID 319 Predictive Compliance and Supply Chain Resilience in Class II Medical Device Operations: An AI-Enabled Framework for Regulated Manufacturing

Kenneth Xu, Doctorate Pan-European Studies, University of Pula, United States
Markus Mau and Nick Vyas, Supervisors - Doctorate Pan-European Studies, University of Pula, United States

ID 242 Location-Allocation of Relief Containers: A Case Study for Avcılar

Hasret Erdoğan, and Şüheda Ercan, Student, Industrial Engineering Department, Abdullah Gül University, Kayseri, Türkiye
Betül Çoban Yelken, Assistant Professor, Industrial Engineering Department, Abdullah Gül University, Kayseri, Türkiye

ID 186 Medicines Shortages: Causes, Effects and Supply Chain Solutions

Asma Nasser Al-Habsi and Jacob Pratabaraj, Faculty of Transport and Logistics, Muscat University, Muscat, Oman

ID 160 Unseen but Critical: Predictive Management of Overlooked Consumables: Case Study

Zaynab KAICHOUH, 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
Haj EL MOUSSAMI, Modeling and Optimization of Industrial Systems (MOSI), ENSAM – UMI, Meknes, Morocco
Latifa EZZINE, Modeling and Optimization of Industrial Systems (MOSI), ENSAM – UMI, Meknes, Morocco

ID 230 Cross-Border Order Fulfillment and Inventory Planning Framework for a Distribution Network

Demet Özgür-Ünlüakın, Eren Alp Çelen and Oğuzhan Gökçe, Department of Industrial Engineering, Faculty of Engineering and Natural Sciences, Işık University, Istanbul, Türkiye

ID 299 GIS and AHP-Based Warehouse Site Selection for Logistics Planning in Al Jahra, Kuwait

Rawan Mustafa, Industrial Engineering Department, Kuwait University, Kuwait
Duha Abuhasan, Industrial Engineering Department, Kuwait University, Kuwait

June 24, 2026 (Wednesday) - Session: 18:00 – 120:00**18:00 – 20:00, Wednesday****Virtual Zoom Room 7**

Session Chair: Kapila Liyanage, Senior Lecturer and Programme Leader for MSc Strategic Engineering Management, University of Derby, UK
Zoom Host: Dr. Nazrul Islam, IEOM Canada

Lean Six Sigma and Operations Excellence

ID 290 A Lean Production Approach to Optimize Chassis Repair Lead Times in Heavy-Machinery Workshops

Bryan Cristobal Polino Palacios, Universidad de Lima, Perú
 Johan Antonio Williard Hoyos Granada, Universidad de Lima, Perú
 Juan Carlos Quiroz Flores, Research Professor, Universidad de Lima, Perú
 José Antonio Taquía Gutiérrez, Research Professor, Universidad de Lima, Perú

ID 205 Data Driven Approach to Achieve Operational Excellence: A Case Study of a City Call Center

Houssam El Ouaid, Hamza Guessab, and Loubna Benabbou, Management Science Departement Universite' du Que'bec a` Rimouski Le'vis, Canada
 Raul Flores and Cynthia Lavoie, Ville de Le'vis Le'vis, Canada

ID 86 Integrating Workforce Allocation and Parallel Machine Scheduling with Setup- and Release-Dependent Constraints

Betül Kılınç, Faculty of Engineering and Natural Sciences, Industrial Engineering Department, Ankara Yıldırım Beyazıt University, Ankara, Türkiye
 Cihat Öztürk, Asst. Prof, Faculty of Engineering and Natural Sciences, Industrial Engineering Department, Ankara Yıldırım Beyazıt University, Ankara, Türkiye

ID 93 Leveraging Digital Innovations for Lean and Sustainable MEP in the Industry 4.0 Era

Mehmet Riza El-Huseyni, CEng, PhD Student, College of Science & Engineering, University of Derby, UK
 Kapila Liyanage, Senior Lecturer and Programme Leader for MSc Strategic Engineering Management, College of Science & Engineering, University of Derby, UK

ID 282 Productivity Improvement of Final Visual Inspection at Washing Area using Lean Six Sigma at an HDD Manufacturing Company

Julio Victor Herrera, Instructor, College of Engineering and Computer Studies, Lyceum of the Philippines University – Laguna (LPU-L), Km. 54 National Highway, Brgy Makiling, Calamba City, 4027 Laguna, Philippines

Quality, Reliability and Maintenance

ID 401 Improving the Quality of Hockey Helmet Materials

Neel Panchal, Vignesh Musalaju, Advait Muley, Arun Manne
 Graduate Student's
 Master of Engineering Management, Masters of Automotive Engineering.
 A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
 Lawrence Technological University
 Southfield, MI 48075, USA

Ahad Ali

Associate Professor, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering
 Lawrence Technological University
 Southfield, MI 48075, USA

ID 403 Enhancing Window Quality Through Optimal Sealant Selection

Rose Marie Gebara, Sai Trinath, Vivek Mekala
 Graduate Students

Ahad Ali

Director, Master of Science in Industrial Engineering Program
 A. Leon Linton Department of Mechanical, Robotics, and Industrial Engineering
 Lawrence Technological University, Southfield MI, USA

ID 404 Quality Control and Statistical Process Monitoring of Rotor Shaft Machining

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

Virtual - Day 3 (Thursday, June 25)

June 25, 2026 (Thursday) - Session: 8:00 – 10:00

8:00 – 10:00, Thursday

Virtual Zoom Room 7

Session Chair: Hüseyin Ali Sarıkaya, Assist. Prof. Dr., Industrial Engineering Department, Mudanya University, Bursa, Türkiye
 Zoom Host: Mizanur Rahman, IEOM Australia

Engineering Education and Curriculum Improvement

ID 78 Accessible Dry-Lab Simulation of Aerospace TPS Materials Under Simulated Atmospheric Reentry Using Convective Heat Transfer Models

Rishit Yadav, DPS Sharjah, United Arab Emirates

ID 191 Adaptive AI-Assisted Engineering Learning with Chatbot Critical Thinking in Linear Algebra

Mohamed Edali and Faraj Ben Rajeb, Department of Chemical & Petroleum Engineering, Elmergib University, Elkhoms, Libya

Hedia Fgaier, Department of Mathematics and Information Science, Full Sail University, Winter Park, Florida, USA

Ahmad Nasib, Libyan International Coalition for Training and Institutional Development

Ahmed Alatrash, Chamber of Commerce, Industry & Agriculture, Benghazi, Libya

Huda Megeirhi, University of Benghazi, Libya

Sarah Edali, School of Interdisciplinary Health Sciences, University of Ottawa, Ottawa, Canada

Ali Elkamel, Professor, Department of Chemical and Petroleum Engineering, Khalifa University, UAE and Department of Chemical Engineering,

University of Waterloo, Waterloo, ON N2L 3G1, Canada

ID 283 Relative Efficiency of Engineering Programs at a Brazilian Federal University: A DEA-BCC Approach with Two-Dimensional Representation

Rafael de Azevedo Palhares, Doctoral Candidate, Production Engineering Graduate Program, Federal University of São Carlos (UFSCar), São Carlos, SP, Brazil

ID 46 Teaching for Attention: A Behavioural Architecture to Nudge Attendance and Engagement Ethically

Mohohlo Samuel Tsoeu, Department of Electronic and Computer Engineering, Faculty of Engineering and the Built Environment, Durban University of Technology, Durban, South Africa

Lucy Khumalo, Department of Chemical Engineering, Faculty of Engineering and the Built Environment, Durban University of Technology, Durban, South Africa

Rendani Wilson Maladzhi and Kazeem Bello, Department of Mechanical Engineering, Faculty of Engineering and the Built Environment, Durban University of Technology, Durban, South Africa

June 25, 2026 (Thursday) - Session: 10:00 – 12:00**10:00 – 12:00, Thursday****Virtual Zoom Room 7**

Session Chair: Hilal Sena Tunç and Haluk Yapıcıoğlu, Industrial Engineering Department, Eskisehir Technical University, Eskisehir, Türkiye

Zoom Host: Aqib Islam, IEOM Bangladesh

Quality, Reliability and Maintenance**ID 82 A Hybrid Predictive Maintenance Framework Using Risk-Based and Deep Learning Approaches**

Hüseyin Ali Sarıkaya, Assist. Prof. Dr., Industrial Engineering Department, Mudanya University, Bursa, Türkiye

ID 202 Critical Resource Management Strategy Measures in the Maintenance Management of Public Assets

Khotso Dithebe, Walter Sisulu University, South Africa

ID 244 Detecting Geometric Signatures of Air Leaks in Railway Compressors Using Topological Data Analysis

Md. Mahmudul Hasan Ratul, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh

Rashid Abrar Tanzil, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh

Niloy Roy, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh

Shaikh Shehab Ahamed, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh

Sanjan Habib, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh

Mohammad Shahad Raihan, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Bangladesh

ID 203 Maintenance Management Benefits Measurement Model for Public Infrastructure

Khotso Dithebe, Walter Sisulu University, South Africa

ID 114 Optimizing Group-Based Maintenance Activities in Field Support Operations: A Case Study in Aircraft Engine Maintenance

Hilal Sena Tunç and Haluk Yapıcıoğlu, Industrial Engineering Department, Eskisehir Technical University, Eskisehir, Türkiye

ID 102 Text Augmentation and Machine Learning for Classifying Internal Quality-Audit Findings

Husam Alghamdi, Industrial Engineering Department, College of Engineering, King Saud University, Riyadh, Saudi Arabia

ID 366 EWMA-based ALT-Norm Control Chart for Monitoring Variability of High-Dimensional Process

Qusai N. Jawabreh, PhD Student, Department of Mechanical and Industrial Engineering, Qatar University, Doha, Qatar

Galal M. Abdella, Associate Professor, Department of Mechanical and Industrial Engineering, Qatar University, Doha, Qatar

June 25, 2026 (Thursday) - Session: 12:00 – 14:00**12:00 – 14:00, Thursday****Virtual Zoom Room 7**

Session Chair: Hazem J. Smadi, Associate Prof., Industrial Engineering Department, Jordan University of Science and Technology, Irbid, Jordan

Zoom Host: Aqib Islam, IEOM Bangladesh

Simulation, Optimization and Circular Economy

ID 193 Baseline-Constrained Demand Response and Expansion Planning of Hybrid Battery–Hydrogen Storage in PV-Dominated Power Systems

Ali Elkamel, Professor, Khalifa University, UAE and University of Waterloo, Canada
 Mohammed Elsir, Khalifa University, UAE
 Ameena Al-Sumaiti, Khalifa University, Canada

ID 148 Electric Vehicle Routing with Time-Dependent Waiting Time at Charging Stations Using Stochastic Optimization

Hazem J. Smadi, Associate Professor, Industrial Engineering Department, Jordan University of Science and Technology, Irbid, Jordan

ID 47 Process Simulation of Hydrogen Sulphide-Methane Reforming (H2SMR) for Sustainable Hydrogen Production

Sheeraz Ahmad, Department of Chemical and Petroleum Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE
 Nabeel Sultan, Department of Chemical and Petroleum Engineering, Khalifa University, of Science and Technology, Abu Dhabi, UAE
 Ismail Alkhatib, Department of Chemical and Petroleum Engineering, Khalifa University of Science and Technology, PO Box 127788, Abu Dhabi, United Arab Emirates and Energy Institute, Khalifa University of Science and Technology, PO Box 127788, Abu Dhabi, United Arab Emirates
 Lourdes F. Vega, Department of Chemical and Petroleum Engineering, Khalifa University of Science and Technology, PO Box 127788, Abu Dhabi, United Arab Emirates and Energy Institute, Khalifa University of Science and Technology, PO Box 127788, Abu Dhabi, United Arab Emirates
 Ali Almansoori, Department of Chemical and Petroleum Engineering, Khalifa University of Science and Technology, Abu Dhabi, UAE and Research and Innovation Center on CO2 and Hydrogen (RICH Center), Khalifa University of Science and Technology, PO Box 127788, Abu Dhabi, UAE
 Ali Elkamel, Department of Chemical and Petroleum Engineering, Khalifa University of Science and Technology, PO Box 127788, Abu Dhabi, UAE, Research and Innovation Center on CO2 and Hydrogen (RICH Center), Khalifa University of Science and Technology, Abu Dhabi, UAE and Chemical Engineering Department, University of Waterloo, Ontario N2L 3G1, Canada

ID 192 Process Simulation of Hydrogen Sulphide-Methane Reforming (H2SMR) for Sustainable Hydrogen Production

Ali Elkamel, Khalifa University, UAE and University of Waterloo, Canada
 Sheeraz Ahmad, Khalifa University, UAE
 Nabeel Sultan, Khalifa University, UAE
 Ismail Alkhatib, Khalifa University, UAE
 Lourdes Vega, Khalifa University, UAE
 Ali Elkamel, Professor, Khalifa University and University of Waterloo, Canada
 Ali Almansoori, Prof., Khalifa University

ID 358 Energy from residual waste: a sustainable strategy for power generation and waste management in ghana

Joseph Ogudi and Marianna Kharlamova, Department of Environmental Safety and Product Quality Management, Institute of Environmental Engineering, RUDN University, 6 Miklukho-Maklaya St., 117198 Moscow, Russian Federation
 Yaw Amo Sarpong, Institute for Rural Development and Innovation Studies, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

ID 370 Drone–IoT System for Low-Cost Intelligent Monitoring of Atmospheric Pollution in Industrial and Urban Environments

Cesar Daniel Cubas Arana, Walter Fernando Boronda Paredes, Fabricio Humberto Paredes Larroca and Erick de Jesús Ordaz Rivas
 Faculty of Engineering and Architecture, University of Lima, Peru
 Faculty of Mechanical and Electrical Engineering, Autonomous University of Nuevo León, Mexico

June 25, 2026 (Thursday) - Session: 14:00 – 16:00**14:00 – 16:00, Thursday****Virtual Zoom Room 7**

Session Chair: Doston Allanazarov, TIAME NRU, Uzbekistan
 Zoom Host: Siyam Hasan, IEM, KUET, Bangladesh

Automation and Robotics**ID 279 Python-based hybrid virtual power plant simulation for a rural hospital microgrid: priority-dispatch ems and scenario analysis**

Doston Allanazarov, TIAME NRU, Uzbekistan

ID 293 Empowering Youth and Women through Natural Farming and Revival of Indigenous and Salt-Tolerant Paddy for Climate-Resilient Agriculture and Food Security in Sagar Island, Sundarbans, India

Aparupa Bairagi and Shreetama Bhunia, Research Assistant, Krishna Suchitra Memorial Centre for Rural Development and Research, Paribesh Unnayan Parishad (PUPA), Sagar Island, West Bengal, India
 Amales Misra, Research Scientist, Krishna Suchitra Memorial Centre for Rural Development and Research, Paribesh Unnayan Parishad (PUPA), Sagar Island, West Bengal, India

ID 79 Development of an IoT-Based Noise Hazard Monitoring and Alert System in a Sugar Factory

Wittavat Sripradit, Master of Systems Engineering Program, Suranaree University of Technology, Nakhon Ratchasima, Thailand
 Nattawat Pinrath, Lecturer, School of Industrial Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

ID 9 Observation of Fatigue Crack Initiation and Propagation of SS-302 under constant load amplitude

Md. Kamrul Hasan Chowdhury, Md. Abu Bakkar Siddique and Abdus Salam Sarkar, Department of Mechanical Engineering, Rajshahi University of Engineering and Technology, Rajshahi 6204, Bangladesh
 Papia Akter, Deputy Management Director (Finance), Matrix Sweaters Ltd, Gazipur, Bangladesh
 Farhan Hossen, BRAC Business School, BRAC University, Dhaka, Bangladesh
 Tapas Barai, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh

ID 352 A Nonlinear Dynamic System Using Fuzzy Basis Function Network

M.H. Saleh, Salma Subh Mohammed, Nermine Maher, Tarek Madbouly, Elhemly, and Mohamed Abd-El-Azeem, Canadian International College "CIC", Egypt

ID 363 Augmented Reality-Based Zero-Error Approach for Improving the Training Process of a Cable Assembly Module in an Automotive Factory

Eda Balcı, Şükran Akşimşek, and Derya Deliktaş, Kütahya Dumlupınar University Engineering Faculty, Industrial Engineering Department, Kütahya, Türkiye

Kaan Erarslan, Kütahya Dumlupınar University Engineering Faculty, Mining Engineering Department, Kütahya, Türkiye

ID 369 ZT-RAG: A Zero-Trust Reference Architecture for Secure Cloud-Native Retrieval-Augmented Generation Systems

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

Jay Nankani, Sr Software Developer, Redfin, San Francisco, CA, USA

June 25, 2026 (Thursday) - Session: 16:00 – 18:00

16:00 – 18:00, Thursday

Virtual Zoom Room 7

Session Chair: Rafael de Azevedo Palhares, Production Engineering Department, Universidade Federal de São Carlos (UFSCar), São Carlos, Brazil
Zoom Host: Dr. Nazrul Islam, IEOM Canada

Business Management and Operations Management

ID 284 A Multicriteria Pre-Selection Framework for Stock Investment Using the FITradeoff Method and Fundamental Analysis

Rafael de Azevedo Palhares, Department of Production Engineering, Universidade Federal de São Carlos (UFSCar), São Carlos, Brazil

ID 285 An Integrated Framework for Rational Investment Portfolio Construction: Combining FITradeoff and the Markowitz Optimization Model

Rafael de Azevedo Palhares, Department of Production Engineering, Universidade Federal de São Carlos (UFSCar), São Carlos, Brazil

ID 323 Analysis of the Disaster Management Network Across All Stages of a Disaster and the Development of Standard Operating Procedures in Nanggewer Village, Cibinong District, West Java

Gabriel Bhrmara Wilasita and Novandra Rhezza Pratama, Industrial Engineering Department, University of Indonesia, Depok, Indonesia

ID 76 Mapping the South African Risk Management Research Trends 2006 to 2026: A Bibliometric Perspective

Mpho Mokgathi, Department of Commercial Accounting, School of Accounting, College of Business and Economics, University of Johannesburg, Johannesburg, Republic of South Africa

Olayinka Erin, Department of Accountancy, School of Management, College of Business and Economics, University of Johannesburg, Johannesburg, Republic of South Africa

ID 318 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 149 Understanding the Commission Structure Model in Ridehailing: An Empirical Analysis

Souradeep Koley, and Mukesh Kumar Barua, Department of Management Studies, Indian Institute of Technology Roorkee, Roorkee, India

Amab Bisi, Associate Professor, Carey Business School, Johns Hopkins University, USA

ID 105 Longitudinal Integrative Review of AI Adoption, Readiness, and the Implementation Gap in the German Mittelstand: Seven Waves of Evidence from 2017–2024

Sait Başkaya, Associate Professor of Industrial Management, New Uzbekistan University, Tashkent, Uzbekistan

June 25, 2026 (Thursday) - Session: 18:00 – 120:00

18:00 – 20:00, Thursday

Virtual Zoom Room 7

Session Chair: Ömer Nedim Kenger, Asst. Prof. Dr., Industrial Engineering Department, Gaziantep University, Istanbul, Türkiye

Zoom Host: Dr. Nazrul Islam, IEOM Canada

Sustainability, Green Systems and Energy

ID 48 Converting Textile Microfiber Waste into Hydrogen Fuel: A Sustainable Energy Approach

Ankita Lambat, Student, Fashion and Textile Science Department, RTMN University, Nagpur, India

ID 146 Effectiveness of using desalination waste as concrete mixing water in Saudi Arabia: A review

Mohammed A. Almarshoud, Civil and Environmental Engineering Department – College of Engineering - University of Jeddah – Jeddah – Kingdom of Saudi Arabia

ID 21 Hybrid approach to inventive design integrating C-K, TRIZ and SCAMPER

Ousmane Senghor and Khalifa Gaye, Laboratoire d'Informatique et d'Ingénierie pour l'Innovation, Université Assane Seck de Ziguinchor, Senegal

Amadou Coulibaly, Laboratoire des Sciences de l'Ingénieur, de l'Informatique et de l'Imagerie, ICube, INSA Strasbourg, Victoire, Strasbourg, France

Marie Ndiaye, Laboratoire d'Informatique et d'Ingénierie pour l'Innovation, Université Assane Seck de Ziguinchor, BP 523, Senegal

ID 17 Managing Household Pharmaceutical Waste: A Systems Thinking Perspective

Özgür Erol, Advisor, Industrial Engineering Department, Istanbul Medipol University, Istanbul, Türkiye
Sude Özkaya, Student, Industrial Engineering, Istanbul Medipol University, Istanbul, Türkiye
Sena Hamamcı, Student, Industrial Engineering, Istanbul Medipol University, Istanbul, Türkiye
İlayda Bozdoğan, Student, Industrial Engineering, Istanbul Medipol University, Istanbul, Türkiye
Muhammet Asilkan Öd, Student, Industrial Engineering, Istanbul Medipol University, Istanbul, Türkiye
Furkan Adanur, Student, Industrial Engineering, Istanbul Medipol University, Istanbul, Türkiye

Supply Chain Management and Logistics

ID 353 A Green Routing Approach for Integrated Disassembly Line Balancing with 3D Printing

Zülal Diri Kenger, Department of Industrial Engineering, Gaziantep University, Gaziantep, Türkiye

ID 354 Energy-Efficient Robotic Disassembly and Vehicle Routing

Ömer Nedim Kenger, Asst. Prof. Dr., Industrial Engineering Department, Gaziantep University, Istanbul, Türkiye

ID 355 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, Saudi Arabia
Tamer S. Gaafar, Computer and Systems Department, Zagazig University, Egypt

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Algeria

1. Adrar University

Australia

2. Queensland University of Tech., Brisbane
3. UNSW-Canberra
4. University of Melbourne
5. University of Wollongong
6. University of Adelaide

Bahrain

7. University of Bahrain

Bangladesh

8. Ahsanullah University of Sci & Tech (AUST)
9. Bangladesh Institute of Management (BIM)
10. Bangladesh University of Textiles (BUTEX)
11. BUET
12. CUET
13. Daffodil International University (DIU)
14. DUET, Gazipur
15. European University of Bangladesh
16. International Islamic University of Chittagong
17. IUBAT
18. Jessore University of Science and Technology
19. Khulna University (KU)
20. Khulna University of Eng and Tech (KUET)
21. Military Institute of Science and Technology
22. National Institute of Textile Eng & Res (NITER)
23. Rajshahi University (RU)
24. SUST
25. University of Chittagong
26. World University Bangladesh (WUB)
27. BAUST
28. American International University-Bangladesh (AIUB)
29. BGMEA University of Fashion and Technology (BUFT)
30. IUB – Independent University, Bangladesh

Bolivia

31. Universidad Católica Boliviana

Botswana

32. University of Botswana

Brazil

33. Federal University of Sao Carlos (UFSCar)
34. Federal University of Santa Catarina (UFSC)
35. University of Sao Paulo (USP) – Sao Carlos
36. Federal Institute of Sao Paulo, Sorocaba
37. FACENS University, Sorocaba

Canada

38. Concordia University
39. Humber Institute of Tech and Adv Learning
40. Polytechnic Montreal
41. University of New Brunswick at Fredericton
42. University of Waterloo
43. University of Windsor
44. Wilfrid Laurier University

Colombia

45. Fundación Univ. Tecn. Comfenalco, Cartagena, Bolívar
46. University of Rosario, Bogota
47. University of Quindío
48. Universidad de San Buenaventura, Cali, Valle
49. Institución Universitaria Colegios de Colombia
50. Escuela Colombiana de Ingeniería Julio Garavito
51. Universidad Católica de Colombia
52. Universidad Santo Tomás de Aquino
53. Fundación Universitaria Internacional de La Rioja
54. Universidad América
55. Universidad Militar Nueva Granada (UMNG)
56. Universidad Cooperativa de Colombia (UCC)
57. Universidad del Norte
58. Corporación Universitaria Minuto de Dios – UNIMINUTO
59. Fundación Universitaria de Popayán
60. Universidad Nacional Abierta y a Distancia (UNAD)

Costa Rica

61. University of Costa Rica

Czech Republic

62. University of West Bohemia, Pilsen

Ecuador

63. Technical University of Ambato
64. Universidad San Francisco de Quito

Egypt

65. Zagazig University
66. Fayoum University
67. British University in Egypt

El Salvador

68. Escuela Superior de Economía y Negocios (ESEN), El Salvador

Ethiopia

69. Bahir Dar Institute of Technology
70. Addis Ababa University Institute of Technology
71. Mekelle University

Finland

72. University of Vaasa

France

73. IESEG School of Management
74. Lorraine University, Metz

Germany

75. Technical University Applied Sciences Augsburg

Ghana

76. Technological Education Institute (TEI), Larissa
77. Ho Technical University
78. University of Ghana

Greece

79. Accra Technical University

Haiti

80. Université Quisqueya

India

81. College of Eng and Tech, Bhubaneswar, Odisha, India
82. College of Engineering Guindy, Chennai
83. Guru Nanak Dev Engineering College
84. Pandit Dendayal Petroleum Univ., Gujrat
85. P.D.A. College of Engineering, Gulbarga
86. Vellore Institute of Technology
87. Vidya Jyothi Institute of Technology, Hyderabad
88. Universal College of Eng & Tech (UCET), Guntur
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
97. Mahant Bachittar Singh College Eng & Tech, Jammu
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
106. BML Munjal University, Gurugram, India
107. AKTU University, Kanpur, India
108. Mufakhamjah College of Eng. and Tech, Hyderabad
109. Methodist College of Engineering and Technology

110. Vardhaman College of Engineering

111. Dr B R Ambedkar National Institute of Technology, Jalandhar

112. B. V. Raju Institute of Technology, Vishnupur, Narsapur

113. Anjumam College of Engineering and Technology

114. Bharatiya Eng. Science & Technology

- Innovation University, (BESTIU), Gownivaripalli, Gorantla, Andhra Pradesh

115. HITAM - Hyderabad Institute of Technology and Management

116. JNTUH University College of Management Hyderabad, JNTUH

117. Siddaganga Institute of Technology, Tumakuru, Karnataka

Indonesia

118. Atma Jaya Catholic University
119. Bina Nusantara University (Binus), Indonesia
120. Institut Teknologi Bandung
121. Institut Teknologi Sepuluh Nopember (ITS)
122. Sampoerna University, Jakarta
123. Shipbuilding Institute of Polytechnic Surabaya
124. Tarumanagara University
125. UIN Sultan Syarif Kasim, Riau
126. Universitas Diponegoro (Undip)
127. Universitas Gadjah Mada (UGM)
128. Universitas Iqra Buru
129. UIN Sunan Kalijaga, Yogyakarta
130. Universitas Islam Negeri Alauddin Makassar
131. Universitas Sebelas Maret (UNS), Surakarta
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 Martín 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

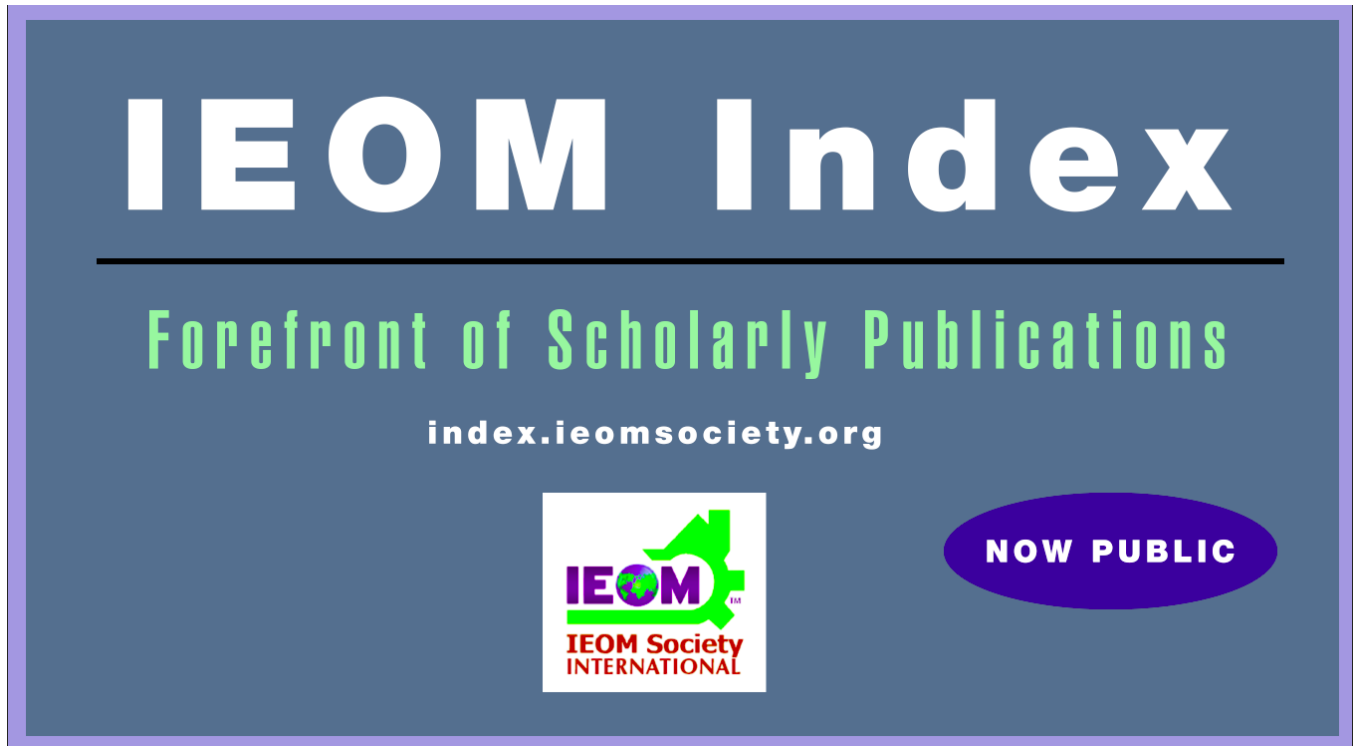
290. University of Zambia
291. Copperbelt University
292. Evelyn Hone College

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
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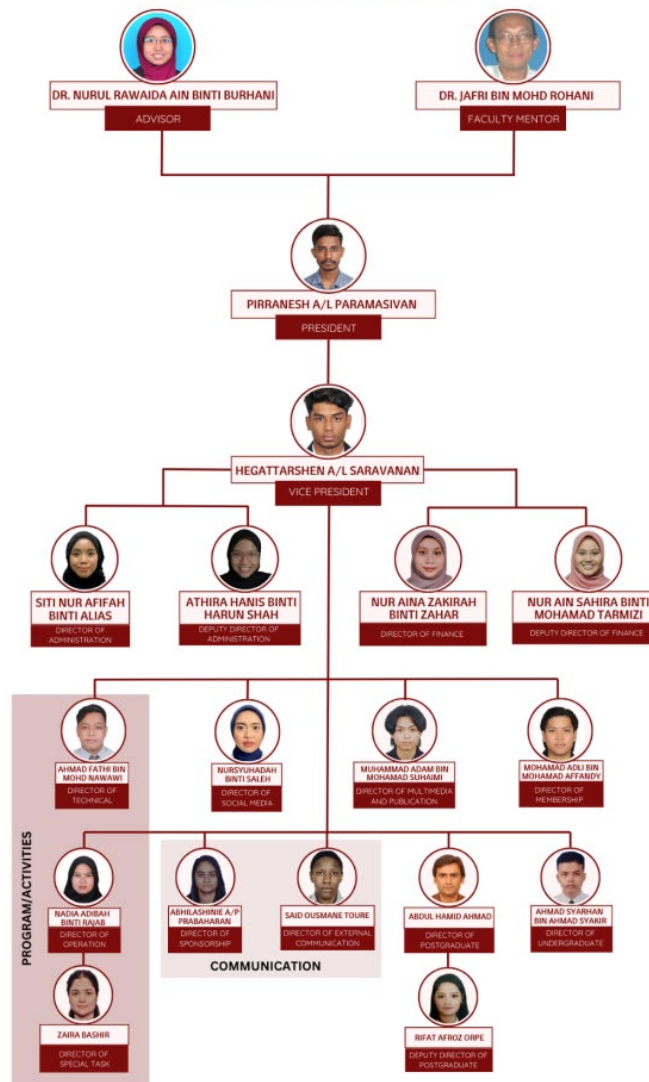
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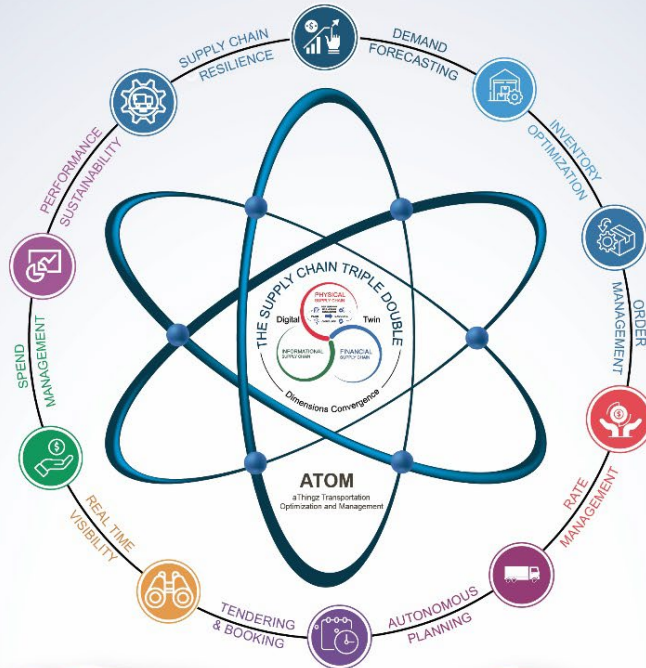
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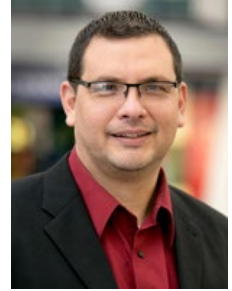
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