IEOM

5th Australian Conference on Industrial Engineering and Operations Management



~Wollongong, NSW, Australia

ORGANIZER

IEOM Society INTERNATIONAL

HOST

UNIVERSITY OF WOLLONGONG AUSTRALIA

November 24-26, 2026

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Organizer

IEOM Society

"Achieving and Sustaining Operational Excellence"

www.ieomsociety.org

Industrial Engineering and Operations Management Society International

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

Welcome to the 5th Australia International Conference on Industrial Engineering and Operations Management in Wollongong, Australia, 2026

To All Conference Attendees:

We would like to begin by acknowledging the Traditional Custodians of the land on which we gather. We would also like to pay our respects to their elders past and present.

On behalf of the IEOM Society International, we would like to welcome you to the 5th Australian International Conference on Industrial Engineering and Operations Management to be held in Wollongong, Australia during November 24-26, 2026. The Venue is Building 29, University of Wollongong Campus, Wollongong, NSW, Australia, and the conference is hosted by the University of Wollongong (UOW). This unique international conference provides a forum for academics, researchers, and practitioners from many industries to exchange ideas and share recent developments in the fields of industrial engineering and operations management. This diverse international event provides an opportunity to collaborate and advance the theory and practice of major trends in industrial engineering and operations management. The program includes many cutting-edge topics in industrial engineering and operations management. We have received about 200 paper/abstract submissions from about 29 countries.

The theme of this conference is "Future Resilience and Responsible Production and Consumption", with the sub-theme "Sustainable Operations in a Changing Energy Future". The IEOM Society is delighted to have the following keynote speakers:

- **Ty Christopher**, Director, Energy Futures Network Australia & General Manager, Asset Management, Endeavour Energy, Australia
- **Dr Clayton McDowell**, Associate Director Sustainability, Infrastructure and Property Division, University of Wollongong, Australia
- **Amanda MacKinnell** MBA MAIPM, Head Industry Engagement & Global Supply Chain, L3Harris Technologies, Canberra, Australia
- **Dr Adrian Tootell**, Honorary Fellow, University of Wollongong, Australia
- **Prof Dr Azharul Karim**, Professor, Mechanical Engineering, Queensland University of Technology, Brisbane, Australia
- **Prof Dr Arun Abraham Elias**, Director, Goa Institute of Management, India; School of Management, Victoria University of Wellington, New Zealand
- **Dr George Panas**, Enterprise Fellow & Director of Engagement, Department of Management and Marketing, University of Melbourne, Australia

We are a student-focused organization with 308 student chapters in 60 countries. There are 180 countries from six continents participating in various IEOM Society activities. The IEOM Global Community has more than 50,000 members. Students will participate in competitions on Industrial Engineering and Operations Management sponsored by industry. At this conference, the IEOM Society will hold its Global Engineering Education session which will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The IEOM Industry 4.0 and Digital Transformation session will showcase and feature major topics including IoT, AI, Data Analytics, iCloud, Cyber security, Automation, Digital Manufacturing, Digital Twin, and industry best practices. Global Business Management Education will focus on quality education and curriculum improvement in business management. Panel sessions have been planned: Supply Chain Analytics and Optimization, and Leadership, Inclusion and the Future of Engineering Management.

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

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



Conference Chair
Prof Dr Matthew Pepper
University of Wollongong
Australia



Conference Co-chair
Dr Felix Kin Peng Hui
University of Melbourne
Australia



Conference Co-chair
Dr Ethan Nikookar
University of Wollongong
Australia



Conference Co-chair
Dr Spring Zhou
University of Wollongong
Australia



Conference Co-chair
Prof Dr Dilupa Nakandala
Western Sydney University
Australia



Conference Co-chair
Dr Peter Shi, FCILT
Macquarie University, Australia



Conference Co-chair
Dr Sabrina Fawzia
Queensland University of
Technology, Australia



Conference Co-chair
Dr Shamsul Huda
Deakin University, Australia



Conference Co-chair
Dr Sanjoy Paul
University of Technology
Sydney (UTS), Australia



Program Chair
Dr Imran Ali
Central Queensland
University, Australia



Conference Manager
Erin Snape
University of Wollongong
Australia



IEOM Australia Committee
David Karr (CPEng, FIIEA)
President, Industrial Engineers
Australia (IEA)



Program Chair
Prof. Donald Reimer
IEOM Society International
Southfield, Michigan, USA



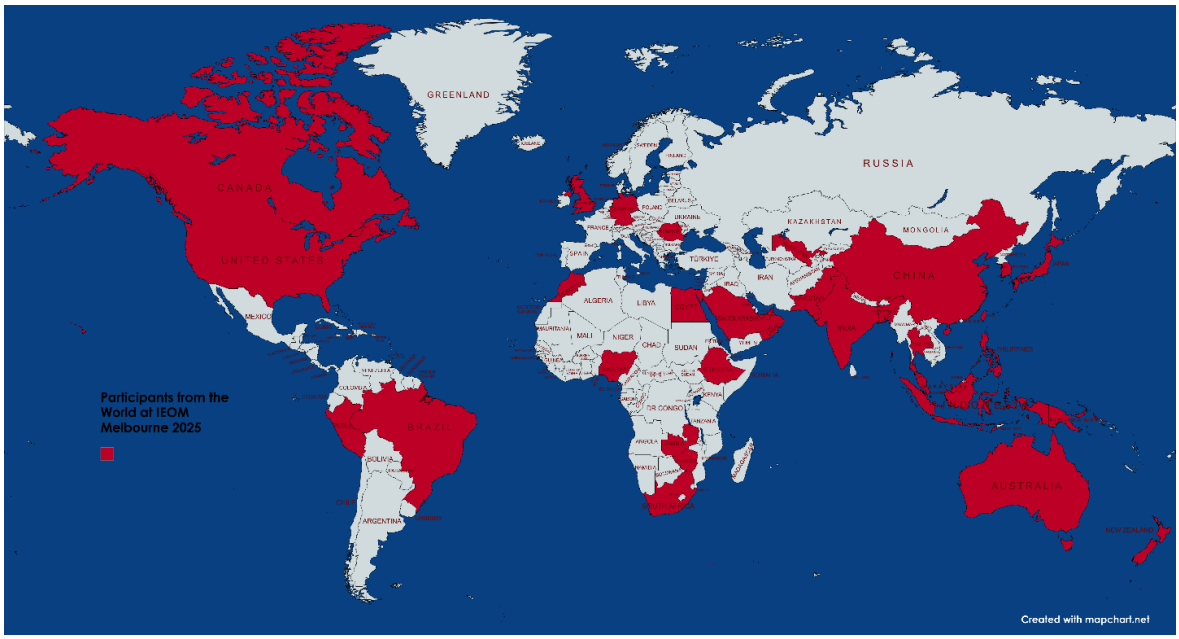
Conference Co-chair
Dr Ahad Ali
Lawrence Tech University
Michigan, USA



Conference Co-chair
Dr Md Mizanur Rahman
University of Sydney and
IEOM Australia

Submissions Received from Countries and Territories

1. Australia
2. Bangladesh
3. Brazil
4. Canada
5. China
6. Gambia
7. India
8. Indonesia
9. Italy
10. Japan
11. Kuwait
12. Mexico
13. Nepal
14. Nigeria
15. Oman
16. Peru
17. Philippines
18. Saudi Arabia
19. Singapore
20. South Africa
21. South Korea
22. Taiwan
23. Thailand
24. UAE
25. Tunisia
26. Türkiye
27. UAE
28. UK
29. USA



Panel Leadership



Chair-Industrial Engineering Australia Stream
Mohan Ganavarapu (CPEng, MIIEA)
Federal President, Industrial Engineers Australia (IEA), Australia



Chair- Global Business Management Education
Dr Samadi Madiwala
Victoria University, Melbourne, Australia



Chair- Diversity and Inclusion
Rahima Khatun
Electrical Engineer at K1 Save Energy
Founder and CEO, Leading Women Australia and D RYMA Group
Melbourne, Australia



Chair- Global Engineering Education
Dr Azharul Karim
Professor, Mechanical Engineering
Queensland University of Technology, Brisbane, Australia



Chair- Operations Research
Dr Ferry Jie
School of Business and Law, Edith Cowan University, WA, Australia



Dr Arshia Kaul
School of Business and Law
Central Queensland University
Melbourne, Australia



Dr Renata Klafke
Lecturer in Management, School of Business and Law, Central Queensland University, Australia



Dr Turlough Guerin
Faculty of Engineering and Information Technology, University of Melbourne, Australia

Welcome Address and Keynotes

Day 1 – Tuesday, November 24, 2026, 11:00 am – 12:50 pm

Welcoming Remarks: 11:00- 11:10am, Tuesday, 24 November 2026



Professor Dr. Matthew Pepper
Conference Chair
Director, Centre for Supply Chain Research
School of Business, Faculty of Business and Law
University of Wollongong NSW 2522 Australia

Matt's PhD research centred on the design and application of continuous improvement frameworks in process industry supply chains. Recent research and consultancy activities focus on lean thinking, six sigma-based process improvement and supply chain design and optimisation. Matt has undertaken research and consultancy across a range of industry sectors, including the manufacturing and process industries as well as local government. Most recently his work has focused on the implementation of continuous improvement in service environments. Matt is a member of the Editorial Advisory Boards for the Journal of Manufacturing Technology Management, the International Journal of Lean Six Sigma, International Journal of Information and Operations Management Education. He is also an Associate Editor for the Global Journal of Flexible Systems Management and the IIMK Society and Management Review Journal.

Acknowledgement of country/ Opening Address: 11:10- 11:30am, Tuesday, 24 November 2026



Professor Dr Shahriar Akter
Professor of Marketing Analytics
Deputy Dean of Research, Faculty of Arts, Society & Business
University of Wollongong, Australia

Dr Shahriar Akter was the Associate Dean of Research of the Faculty of Business & Law from 2022 to 2025. He was awarded his PhD from UNSW Business School, Australia, and a research methods fellowship from the University of Oxford. His research interests include advanced analytics & AI, algorithmic biases and digital Innovation. He was recognised as one of the Top Australian Business Researchers by the Australian Newspaper's Research Magazine in 2022 & 2023. He was also featured by CDO Magazine in 2022 as one of the world's leading academic data leaders (in collaboration with MIT Sloan Management School). He has published in leading business & management journals (100+ Q1, A or A* ranked articles) and has 175+ publications. He is among the top 1% of scholars worldwide, according to the Clarivate 2022 & 2023 lists. He is a Senior Associate Editor of the Journal of Strategic Marketing and Electronic Markets and on the Editorial Board of the International Journal of Information Management, Industrial Marketing Management, and Journal of Innovation & Knowledge. He served as a Visiting Professor at the University of Michigan and Shanghai Jiao Tong University Joint Institute in China, and Toulouse Business School in France. His research has been featured in TIME Magazine, Reuters, WIRED (USA), Grist Magazine (USA), CDO Magazine (USA), The Australian, ABC, SBS, The Canberra Times, The Illawarra Mercury, News.com.au and Times Higher Education.

Keynote I: 11:30- 12:10pm, Tuesday, 24 November 2026



Ty Christopher
Director, Energy Futures Network Australia &
General Manager, Asset Management, Endeavour Energy Australia

Ty Christopher has 40 years' experience in the electricity supply industry. Ty has brought this experience to his role leading the Energy Futures Network at University of Wollongong.

Ty Christopher, as the General Manager, Asset Management, Endeavour Energy, led the introduction of new technology into the electricity supply industry, including large scale battery storage, embedded generation, and digital asset management techniques. As Director Energy Futures Network, University of Wollongong, his focus has shifted to the coordination of education and research into the future of energy supply. As Chair of the Energy Futures Network, Ty is leading and coordinating University of Wollongong's energy related activities, across the spectrum from external facing stakeholder engagement and relationship building including developing substantial external funding sources, through to strategic University-wide coordination, capability development and information management. With the declaration of an offshore wind zone in the Illawarra, Ty and his colleagues at the UoW Blue Energy Futures Lab have been designing independent research programs on the environmental aspects of offshore wind energy.

Keynote II: 12:10- 12:50pm, Tuesday, 24 November 2026



Dr Clayton McDowell
Associate Director Sustainability
Infrastructure and Property Division
University of Wollongong, Australia

Clayton McDowell is the Associate Director Sustainability for the University of Wollongong where his team is responsible for managing energy, water, and biodiversity initiatives as UOW aims to become carbon neutral by 2030. Clayton previously worked as a Research Associate at the Sustainable Buildings Research Centre (SBRC) where he managed the Australian Renewable Energy Agency (ARENA) and Australian Institute of Refrigeration, Air conditioning and Heating (AIRAH) funded Innovation Hub for Affordable Heating and Cooling (i-Hub) project. This project created living laboratories within education and aged care facilities and enabled industry partners to evaluate innovative technologies within a real world environment before taking their products to market.

Clayton is a member of Engineers Australia and has previously worked in heavy manufacturing and research roles. He holds a PhD from the University of Wollongong where his research investigated energy consumption patterns and internal thermal environments of elderly low-income residential buildings across the Greater Illawarra NSW for the purpose of informing future energy efficiency policies and programs. Additionally, he holds a Bachelor of Mechanical Engineering and Masters of Engineering Practice from the University of Wollongong. Clayton is passionate about sustainable buildings and construction methods with a particular interest in improving energy efficiency and thermal comfort through smart construction.

Day 2 – Wednesday, November 25, 2026, 11:10 am – 1:10 pm

Keynote III: 11:10- 11:50am, Wednesday, 25 November 2026



Amanda MacKinnell MBA MAIPM
Industry Capability Development – Strategy & Studies
Head Industry Engagement & Global Supply Chain
L3Harris Technologies
Canberra, Australian Capital Territory, Australia

Amanda MacKinnell is a seasoned industry leader with a career spanning Defence, government, mining, and academia. Drawing on experience from working as part of the Northrop Grumman Triton team, as well as the Office of Defence Industry Support, she currently leads the Global Supply Chain & Industry Engagement programs for L3Harris Technologies, where she's driving whole-of-enterprise collaboration to unlock sovereign industrial potential and unite Australian companies with L3Harris' global market portfolio – this includes engagement of Australian companies into the Artemis program as well as leading edge communication systems. With an MBA, credentials in project management, and currently: doctoral research into antifragility in Australian Defence supply chains, Amanda brings deep insight into building resilient, inclusive ecosystems that can deliver strategic advantage to all. A veteran herself (Royal Australian Navy 1991-2008), she champions local SMEs, Indigenous partnerships, and STEM pathways—ensuring the future Defence workforce is as capable as it is diverse.

Keynote IV: 11:50am- 12:30pm, Wednesday, 25 November 2026



Dr Adrian Tootell
Extensive Industry Experience in Product Research
Integrated Operations, Process Manufacturing and
Key Customer Engagement, Australia

Dr Adrian Tootell is currently working on industry led projects in the defence and aerospace sectors utilising the translation of science and advanced manufacturing technology. His extensive career in industry includes product research, diverse integrated operations, process manufacturing, key customers, technical and laboratory services. He has provided product leadership and management of multi-functional technical team's mass-producing construction, food packaging and general-purpose products for domestic and international markets.

Formerly a Lecturer and researcher at the University of Wollongong, Australia. He now holds an Honorary Fellowship. Having lectured in the fields of management and operations, his research focusses on initiating and developing innovation relationships between universities and industry. He has spoken on this topic at international conferences. Dr Tootell has a special interest in managing the risks involved with creating innovative collaborations that translate science research into ambitious new products in domestic and global environments.Dr Tootell has contributed as a member of Standards Australia innovation and quality management systems technical committees. He has provided technical expertise to ISO working groups that focus on providing organisational frameworks for sustained success and has contributed to the development of AS/NZS ISO 9000 series of standards, and the AS/NZS ISO 56000 series of standards. The value of his contribution led him to roles as former chair for Standards Australia Technical Committee QR-008 and chair of ISO Technical Committee TC176/SC3.

Keynote V: 12:30- 1:10pm, Wednesday, 25 November 2026



Azharul Karim
Professor, Mechanical Engineering
Director: Advanced Drying and Sustainable Energy Research (ADSER)
Associate Editor: Drying Technology Journal
Faculty of Engineering, Queensland University of Technology, Brisbane, Australia

Azharul Karim is currently working as a Professor in the School of Mechanical, Medical and Process Engineering (MMPE), Queensland University of Technology, Australia. He received his PhD from Melbourne University in 2007. Through his scholarly, innovative, high quality research, he has established a national and international standing. Prof Karim has authored over 305 peer-reviewed articles, including 180 high quality journal papers, 14 peer-reviewed book chapters, and six books. His papers have attracted about 13500+ citations with h-index 67. His research has very high impact worldwide as demonstrated by his overall field weighted citation index (FWCI) of 2.09. He is editor/board member of six reputed journals including Drying Technology and Nature Scientific Reports. Dr Karim has supervised 26 PhD and 9 MPhil students to completion and is currently supervising 8 PhD students. He has been keynote/distinguished speaker in 25 international conferences including International Drying Symposiums 2022, 2024 and invited/keynote speaker in seminars 21 reputed universities worldwide including Oxford University, University of Illinois and National University of Singapore. His primary research is directed towards solving acute food industry problems by advanced multiscale and multiphase drying modelling. Due to the multidisciplinary framework of food drying models, his research spans engineering, mathematics, biology, physics and chemistry. To address this multidisciplinary challenge, he established the 'Advanced Drying and Sustainable Energy Research (ADSER)' Research Group (https://research.qut.edu.au/adsergroup/) consisting of academics and researchers across disciplines.

Dr Karim is the recipient of numerous national and international competitive grants amounting $4.2 million, including Advanced Queensland Fellowship (AQF), ARC Linkage and ARC Discovery projects as 1st CI. He is the inventor of energy and water efficient ultrasonic washing machine (patent WO02089652) and Ultrasonic dishwasher (patent WO0229148). His current research areas are: Multiscale and multiphase modelling of drying, Developing and Optimizing Hybrid Drying Systems, Food Quality Modelling and Prediction, Biodegradable Food Packaging, Renewable Energy and Energy Storage, Bushfire Prediction Research and Lean manufacturing, and Engineering Education

Day 3 – Thursday, November 26, 2026, 11:20 am – 12:40 pm

Keynote VI: 11:20- 12:00pm, Thursday, 26 November 2026



Prof Arun Abraham Elias
Director, Goa Institute of Management, India &
School of Management, Victoria University of Wellington, New Zealand

Arun Elias is currently a senior academic in Operations and Supply Chain Management with the School of Management, Victoria University of Wellington, New Zealand. Arun has been associated with Victoria University of Wellington, New Zealand since 1999. He was the Associate Dean (International and Accreditation), Acting Head of School, and Director of MBA and Post Experience programmes. His main research interest is in the area of systems thinking, system dynamics, and stakeholder management approach towards operations and supply chain management.

Previously he was the Dean and Director of Rajagiri Business School, an AACSB and EFMD accredited business school in the South Indian state of Kerala. He also served as the Dean, College of Business, Hospitality and Tourism Studies, Fiji National University, Fiji. In the business schools accreditation space, he serves as an AACSB mentor, EFMD panel member, and AMBA panel member for business schools seeking international accreditation.

Keynote VII: 12:00- 12:40pm, Thursday, 26 November 2026



Dr George Panas
Twenty-Five years of Senior Management Experience in Industry
Enterprise Fellow & Director of Engagement
Department of Management and Marketing, University of Melbourne
Australia

Dr George Panas has 25 years of senior management experience in industry and consulting. After that, he transitioned to academia with the completion of his PhD in 2022. His areas of interest or specialisation include: e-commerce supply chains (grocery, general merchandise & apparel retail), Supply chain and the UN SDGs (including modern slavery, environmental / food and packaging waste, procurement diversity), Supply chain strategy & network design/optimisation, Retail global sourcing & logistics, Supply chain operations in Asia (including China, HK, Singapore, India, Malaysia, Thailand, Indonesia, Vietnam, etc), International supply chain management (sea & air freight, freight forwarding, origin value added services, etc), Corporate strategy, financial planning and analysis, Financial/Mathematical optimisation modelling & techniques, Supply chain commercial finance.

Plenary

Global Engineering Education

2:00 – 4:00 pm, November 24, 2026

Chair and Speaker I:



Dr Sabrina Fawzia
Senior Lecturer, Civil and Environmental Engineering (CEE)
Senior fellow and Associate fellow (Indigenous knowledge) from Advanced HE
Subject area coordinator for CEE, Faculty of Engineering
Queensland University of Technology, Brisbane, Australia

Dr Sabrina Fawzia is currently working as a Senior lecturer in the Civil and Environmental Engineering (CEE) Discipline, Faculty of Engineering, Queensland University of Technology (QUT), Australia. She received her PhD degree from Monash University, Australia in 2008. Through her scholarly, innovative, high quality research, she has established a national and international standing. Dr Fawzia has authored over 144 peer-reviewed articles, including 102 high quality journal papers (80 Q1), 3 peer-reviewed book chapters, and one book. Her papers have attracted about 5127+ citations with h-index 39. Her research has very high impact worldwide as demonstrated by her overall field weighted citation index (FWCI) of 1.54. Dr Fawzia has supervised 17 PhD students and 6 Mphil students to completion.

Dr Fawzia has won multiple awards and grants for her outstanding contributions in teaching and research fields. She is the recipient of numerous competitive grants amounting $2.6 million, including One ARC DP26 and two ARC LIEF as a chief investigator. Her current research areas are Fiber reinforced polymer (FRP) strengthening, 3D printed concrete, sustainable composite construction by using recycled and waste materials and Engineering Education. She is leading a funded research project examining how students perceive and use artificial intelligence tools in higher education.

Co-chair and Speaker II:



Azharul Karim
Professor, Mechanical Engineering
Director: Advanced Drying and Sustainable Energy Research (ADSER)
Associate Editor: Drying Technology Journal
Faculty of Engineering,
Queensland University of Technology, Brisbane, Australia

Azharul Karim is currently working as a Professor in the School of Mechanical, Medical and Process Engineering (MMPE), Queensland University of Technology, Australia. He received his PhD from Melbourne University in 2007. Through his scholarly, innovative, high quality research, he has established a national and international standing. Prof Karim has authored over 305 peer-reviewed articles, including 180 high quality journal papers, 14 peer-reviewed book chapters, and six books. His papers have attracted about 13500+ citations with h-index 67. His research has very high impact worldwide as demonstrated by his overall field weighted citation index (FWCI) of 2.09. He is editor/board member of six reputed journals including Drying Technology and Nature Scientific Reports. Dr Karim has supervised 26 PhD and 9 MPhil students to completion and is currently supervising 8 PhD students. He has been keynote/distinguished speaker in 25 international conferences including International Drying Symposiums 2022, 2024 and invited/keynote speaker in seminars 21 reputed universities worldwide including Oxford University, University of Illinois and National University of Singapore. His primary research is directed towards solving acute food industry problems by advanced multiscale and multiphase drying modelling. Due to the

multidisciplinary framework of food drying models, his research spans engineering, mathematics, biology, physics and chemistry. To address this multidisciplinary challenge, he established the 'Advanced Drying and Sustainable Energy Research (ADSER)' Research Group (https://research.qut.edu.au/adsergroup/) consisting of academics and researchers across disciplines.

Dr Karim is the recipient of numerous national and international competitive grants amounting $4.2 million, including Advanced Queensland Fellowship (AQF), ARC Linkage and ARC Discovery projects as 1st CI. He is the inventor of energy and water efficient ultrasonic washing machine (patent WO02089652) and Ultrasonic dishwasher (patent WO0229148). His current research areas are: Multiscale and multiphase modelling of drying, Developing and Optimizing Hybrid Drying Systems, Food Quality Modelling and Prediction, Biodegradable Food Packaging, Renewable Energy and Energy Storage, Bushfire Prediction Research and Lean manufacturing, and Engineering Education.

Speaker III



Dr Felix Kin Peng Hui
Associate Professor of Engineering Management and an Academic Specialist
Department of Infrastructure Engineering
University of Melbourne, Melbourne, Australia

Dr Felix Kin Peng Hui is an Associate Professor of Engineering Management and an Academic Specialist in the Department of Infrastructure Engineering, Faculty of Engineering and IT, University of Melbourne. He is also the Program Director/Academic Coordinator for the Master of Engineering Management program and the Engineering Business specialisation for postgraduate masters degrees.

Dr Hui is an experienced engineer with over 25 years of industry experience in managing continuous improvement projects, factories, and business units. He has held senior management positions in a range of manufacturing industries which includes machine tools, precision engineering and semiconductors. He has also consulted to organisations seeking continuous improvements to optimise their operational efficiency. His research interests are in the areas of operational process optimisation, operational efficiency, lean systems, organisational development and team dynamics in engineering projects. He is currently a lead investigator on several government funded projects which includes mega-infrastructure projects research, prefabricated modular construction research, next generation buildings with Building 4.0 CRC and on CRC-P projects involving end-of-life treatment processes. Dr Hui is a registered Professional Engineer (Singapore), an ASEAN Chartered Professional Engineer and a Fellow of Institute of Managers and Leaders.

Speaker IV



Professor Ann Rogerson SFHEA J.P.
Chair – UOW Academic Integrity Advisory Group
Academic Lead: Assessment Reimagined Project
Faculty of Arts, Society and Business
University of Wollongong, Wollongong, NSW, 2500, Australia

Professor Ann Rogerson is the Academic Lead for UOW's Assessment Reimagined Project, and Chair of the UOW Academic Integrity Advisory Group. Ann is a passionate educator, keen to engage students in the developing lifelong learning skills while connecting their learning experiences to theory and real world contexts and their future workplaces. She continually assesses and seeks to improve her own teaching and learning skills through feedback, reflection, study and research, sharing her discoveries with colleagues, and drawing on her industry experience.

Ann's commitment to business education extends beyond her discipline area of organisational behaviour and interpersonal communication to the increasingly prominent area of promoting academic integrity. She actively advocates and shares how assessment design can limit academic misconduct and facilitates the easier detection of contract cheating situations which has led to local, national and international recognition. She was the Faculty Associate Dean of Education between 2019-2024, using these experiences and her leadership skills and comprehensive oversight of higher education to the Assessment Reimagined Project re-envisaging assessment and integrity in the age of generative artificial intelligence.

Speaker V



Dr Md Mizanur Rahman
PhD FIEOM CEng MEI Chartered Energy Engineer MIEAust
Adjunct Professor, University of Sydney, Sydney, Australia
Director of IEOM Australia

Dr Md Mizanur Rahman is a researcher and academic specialising in sustainable energy systems, renewable energy, and energy efficiency. His expertise spans thermodynamics, heat transfer, fluid mechanics, energy management, sustainable power generation, energy storage, and the energy–environment nexus. He has led and contributed to research on contemporary and high-impact topics, including Net Zero Energy Buildings, renewable energy policy, life cycle analysis, solar-assisted HVAC systems, long-range energy planning, flameless combustion, and distributed generation. His work bridges engineering innovation with sustainability goals and climate change mitigation.

Dr Rahman has an active international research and academic profile. He has co-chaired multiple global conferences, delivered invited talks, and contributed to scholarly discourse across international platforms. He has authored 38 peer-reviewed publications in leading journals and conference proceedings. Since 2022, he has been affiliated with Western Sydney University, the University of Sydney, and the Industrial Engineering and Operations Management Society (IEOM), Australia. He also serves as Editor-in-Chief of the IEOM Conference Proceedings, where he has overseen and edited more than 25 international conference volumes. He holds a PhD in Mechanical Engineering from Aalto University (Finland) and an MSc in Mechanical Engineering (Sustainable Energy Engineering) from KTH Royal Institute of Technology (Sweden). He is a Chartered Energy Engineer (CEng) with the Energy Institute (UK) and a Member (MIEAust) of Engineers Australia. Dr Rahman is keen to collaborate with industry to apply his expertise in sustainable and renewable energy systems, energy policy, and low-carbon technologies, contributing to net-zero transitions and climate-resilient engineering solutions.

ID 61 Assuring Student Learning through Assessment Redesign for Operations and Supply Chain Management Education in a GenAI World

Ann Rogerson, Professor, School of Business/Supply Chain & Business Analytics, University of Wollongong (UOW), Wollongong, New South Wales, Australia.
Tay Huay Ling, Associate Professor, School of Business/Logistics & Supply Chain Management, Singapore University of Social Sciences (SUSS), Singapore.

Plenary

Industry 4.0 and Digital Transformation

9:00 – 11:00 am, November 25, 2026

Chair and Speaker I:



Dr Ethan Nikookar
Deputy Discipline Leader, Supply Chain & Analytics; and
Deputy Director, Centre for Supply Chain Research
University of Wollongong, School of Business, Wollongong, Australia

After several delightful years of studying and conducting research in Finland and Germany, Ethan came to Australia to pursue his post-graduate studies in supply chain management. He earned his PhD in supply chain resilience and disruption management from the University of South Australia Business School. Since the completion of his Ph.D, Ethan has worked in several teaching and research positions in several large universities, including as a Lecturer at Flinders University and Researcher at the Centre for Workplace Excellence, University of South Australia Business School, and Australian Institute of Business. Ethan joined the UoW family in 2024 with a great passion for practical learning. Ethan has also an extensive career history with some of the best-known companies in the manufacturing sector. Before academia, Ethan spent several years in various automotive and steel manufacturing companies leading supply chains.

Speaker II



Dr. Matthew Pepper
Professor, School of Management, Operations and Marketing
University of Wollongong (UOW), New South Wales, Australia

Dr Matt Pepper is currently a Professor within the School of Business, Faculty of Business and Law, at the University of Wollongong Australia. Matt sits on the editorial advisory boards of a number of academic journals, including the Journal of Manufacturing Technology Management, International Journal of Lean Six Sigma and the International Journal of Information and Operations Management Education. Within the faculty of Business and Law, his teaching responsibilities include supply chain management and strategy at both undergraduate and postgraduate levels. Matt's core research interests lie in the application of systems thinking to supply chain disruption, performance management and continuous improvement in the public sector. Most recently, his work has focused on engaging with public sector organizations to develop appropriate performance measurement and management strategies. Matt currently supervises a number of industry based candidates in these areas of interest and has been an external examiner for a number of PhD theses.

Plenary

Global Business Management Education

9:00 – 11:00 am, November 26, 2026

Chair and Speaker I:



Dr Samadi Madiwala
Sessional Lecturer
College of Arts, Business, Law, Education and IT
Victoria University
Melbourne, Australia

Dr Samadi Madiwala is a dedicated and experienced academic with over a decade of teaching business management subjects both in Australia and internationally. She holds a PhD from Victoria University, where her doctoral research was underpinned by a novel theoretical framework integrating Human Resource Management and Crisis Management. In addition to her PhD, Dr Madiwala holds a Master of Science in International Management and Strategy and a Bachelor's degree in Business Administration with a major in Human Resource Management (HRM).

Her teaching experience spans a range of business disciplines, including HRM, Strategic Management, Quality Management, Innovation, and Change Management. Her research interests lie in investigating the strategic role of people management specifically during times of crisis and uncertainty. She serves as a Sessional Academic across multiple higher education institutions including Victoria University. Dr Madiwala has presented her research at leading academic forums, including the International Conference on Business Management and Governance and International Conference on Industrial Engineering and Operations Management, contributing valuable insights to the field of business and management.

Speaker II



Dr Turlough Guerin
Honorary (Fellow)
Department of Infrastructure Engineering
Faculty of Engineering and Information Technology
The University of Melbourne, Australia

Turlough is a seasoned leader in natural capital, energy and resource management, with strong science and governance credentials, having held senior roles with global companies – Rio Tinto, Shell, Telstra, and First Solar, as well as NSW Government, and leading one of the largest volunteer organisations in Australia, as CEO Landcare NSW. He is currently a non-executive director and board advisor to community-based organisations, an Honorary Fellow at the Faculty of Engineering, University of Melbourne, and Member of the Advisory Council at the Faculty of Science (Sydney Institute of Agriculture), University of Sydney.

He spearheaded the NSW Government's first Net Zero program, leveraging a $1 million investment into a national market mechanism for accelerating the supply and demand of low-emissions construction materials. As CEO of Landcare NSW, through building and supporting a team of high performing leaders and a network of more than 120 Landcare Coordinators and many more executive committee volunteers, and executing a governance transformation directed by his Board, he oversaw the management of almost $70 million, and secured $58.8 million in grassroots funding for the NSW Landcare Enabling Program—more than doubling NSW Government's investment in community-led natural capital, sustainable

agriculture, and natural resource management for the period to June 2027. His leadership, advocacy and implementing an organisation-wide governance uplift, contributed to the record government investment in community-led disaster preparation, climate adaptation, First Nations Landcare, and biodiversity conservation on private land, through community-led, government partnerships.

Speaker III



Dr George Panas
Enterprise Fellow, Management and Marketing
University of Melbourne, Melbourne, Australia

Topic: From Classroom Concepts to Real-World Application: The Role of Managerial Storytelling and Student Perspectives in Supply Chain Education

Dr George Panas has 25 years of senior management experience in industry and consulting. After that, he transitioned to academia with the completion of his PhD in 2022. His areas of interest or specialisation include: E-commerce supply chains (grocery, general merchandise & apparel retail), Supply chain and the UN SDGs (including modern slavery, environmental / food and packaging waste, procurement diversity), Supply chain strategy & network design/optimisation, Retail global sourcing & logistics, Supply chain operations in Asia (including China, HK, Singapore, India, Malaysia, Thailand, Indonesia, Vietnam, etc), International supply chain management (sea & air freight, freight forwarding, origin value added services, etc), Corporate strategy, financial planning and analysis, Financial/Mathematical optimisation modelling & techniques and Supply chain commercial finance.

ID 31 Proposal of Project Model Aimed at Value Creation Incorporating Learning-Goal Orientation
Akihiro Sakaedani, Visiting Associate Professor, School of Business, University of Wollongong (UOW), Wollongong, New South Wales, Australia, and Professor, School of Network and Information, Senshu University, Tokyo, Japan.

ID 32 The Role and Benefits of Architecture in Software Development Project Management
Akihiro Sakaedani, Visiting Associate Professor, School of Management, Operations and Marketing, University of Wollongong (UOW), Wollongong, New South Wales, Australia, and Professor, School of Network and Information, Senshu University, Tokyo, Japan.

ID 169 Human-Centric and Digitally-Enabled Industrial Engineering in the Industry 5.0 Era: A Construction Industry Perspective
Mohan Ganavarapu, Industrial Engineers Australia (IEA); MAS Adroit, Melbourne, Australia.

Panel
Supply Chain Analytics and Optimisation
9:00 – 11:00 am, Thursday, November 26, 2026

Panel Chair and Speaker I:



Dr Spring Zhou
Associate Professor
School of Business
Faculty of Business and Law
University of Wollongong, Australia

Dr Quan (Spring) Zhou is an Associate Professor at School of Business, Faculty of Business and Law, University of Wollongong. She obtained a PhD in Operations and Supply Chain Management from University of Auckland in 2016 for her research in managing medical supplies in national reserves. Prior to joining University of Wollongong, Spring worked as a lecturer at Massey University (2016-2018) and a Research Fellow at University of Auckland (2016) in New Zealand. Her research interests are in supply chain management, non-profit operations, inventory management of perishable products, and agricultural value chains.

As a strong proponent of practice-inspired research, Spring is passionate about combining her research interests with practical needs. Spring has been actively involved in practice-driven, applied research. For example, her PhD project was motivated by the serious expiration problem in the medical reserve stocks. In that project, she studied rotation schemes and provided suggestions on managing the medical supplies, considering the perishability of long-life medical products. Spring has also worked with AgResearch in New Zealand to evaluate on-farm changes when delivering desirable credence attributes for agri-products and explore ways to motivate changes in land use practices.

Speaker II:



Winda Nur Cahyo, PhD
Associate Professor
Faculty of Industrial Technology
Universitas Islam Indonesia (UII)
Sleman, Yogyakarta, Indonesia

Winda Nur Cahyo is an Associate Professor in Industrial Engineering, Universitas Islam Indonesia. He holds a PhD from School of Mechanical, Material, and Mechatronics, the University of Wollongong Australia. He is currently the head of Master Program in Industrial Engineering, Universitas Islam Indonesia since 2018. His expertise and research interest are on the field of Engineering Asset Management and Industrial Management. He is also member of The Institute of Asset Management and also one of the founders of Indonesian Asset Management Community. He published numerous articles in reputable international journals and international conference. He is also a reviewer in reputable international journals and conference and technical committee in several reputable international conference.

Abstract: The main steam turbine is the most critical equipment in the geothermal power plant. When this machine fails, the whole unit stops and the loss of production is very severe. Every year the asset manager must decide whether the turbine is still economical to operate, or the time has come for the replacement. The calculation of the life cycle cost (LCC) is normally the basis of this decision. In the current practice, the LCC is often calculated with the fixed values: the failure rate, the energy price, and the outage duration are each represented by a single number. In the real plant the turbine is getting older, so the failure rate is increasing, and the maintenance cost is moving together with the age of the machine. This research builds

a framework where the uncertain inputs are treated as the random variables, not as the fixed numbers. The failure history is filtered to the major corrective events and fitted with the distribution of Weibull, and the simulation of Monte Carlo with 10,000 runs generates the future maintenance events and the outage hours. Every simulated stream is converted into the equivalent annual cost (EAC). The output of the framework is not a single replacement year, but a range of years with a probability attached to every year in the range. The framework is tested on the main steam turbine of the geothermal power plant in Indonesia, where the turbine has been in service for ten years and the analysis horizon is thirty years. The shape parameter of the Weibull fit is 2.23, which places the turbine in the wear-out phase. The EAC minimum is found at the operational year 23 with the value of USD 609,598 per year for the baseline strategy. The condition-based maintenance scheme is also simulated, and the result shows that the economic life shifts to the year 27 with the annual cost reduction of 4.2%.

Speaker III:



David Aaron Karr, CPEng, FIIEA
Past President
Industrial Engineers Australia (IEA), Australia

David Graduated as an Industrial Engineer BSc (Eng Mech in the Industrial Option) in 1976 at University of Witwatersrand (Wits), Johannesburg, South Africa. He received a Graduate Diploma in Engineering at Wits 1979. David has worked in various Production and Industrial Engineering roles in manufacturing, service industries and consultancy for over 45 years in South Africa, Canada and Australia. He also has training experience as a lecturer (casual) at TAFE (technical college) for 13 years.

He has worked for Siemens (Routing Eng) and Colgate Palmolive (IE) (South Africa), Pirelli Cables (IE) and Canada Post (IE) (Canada), BOC Gases (Australia) (Production & Project Manager) across production quality, project management, supply chain management, design and improvements of production line and layouts of work area and data optimisation.

Industry experience included batch and process type manufacturing as well as large and small sites mainly with large multinational or national companies.

He has his own Business Consultancy undertaking passenger surveys, time and motion studies, setting up preventative maintenance systems for various clients and introduction of digitised autonomous processes. David has been very active in professional organisations in Canada (Canadian Society of Industrial Engineers (CSIE)) and in Australia (Industrial Engineers Australia (IEA) and Engineers Australia (EA)). He is a fellow and Federal President of Industrial Engineers Australia and Chartered Professional Engineer of Engineers Australia.

ID 50 Trust Violation and Repair in Anthropomorphic AI Customer Service: The Role of the Uncanny Valley Effect
Chih-Chin Liang, I-Hsuan Lin* and Wan-Yun Lin, Graduate Institute of Business Administration, National Formosa University, Huwei, Yunlin, Taiwan.

46 The Silent Product Dilemma: Toward AI-Driven Decision Support for Sustainable New Product Launches
Chih-Chin Liang and Nguyen Xuan Tan, Department of Business Administration, College of Management, National Formosa University (NFU), Yunlin, Taiwan.

51 The Effects of Multimodal Artificial Intelligence Advertising on Consumer Emotions and Decision-Making: Evidence from PLS-SEM and fsQCA
Chih-Chin Liang, Yu-Chieh Chou*, and Cho Chang Hui, Department of Business Administration, National Formosa University (NFU), Yunlin, Taiwan.

Panel

Leadership, Inclusion and the Future of Engineering Management

2:30 – 4:30 pm, Thursday, November 26, 2026

Panel Chair and Speaker I:



Dr Dilupa Nakandala
Professor, Associate Dean of Graduate Studies
School of Business, Human Resources & Management
Western Sydney University, Sydney, Australia

Professor Dilupa Nakandala's research interests are in innovation and technology transfer management and supply chain management. Her research has been recognised by funding from the Australian Research Council, Department of Foreign Affairs and Trade, Australia and Western Sydney University. She has published her research in top-tier journals, including Decision Support Systems, Knowledge-based Systems, European Journal of Operational Research, Supply Chain Management Journal, Int'l Journal of Production Research, and Int'l Journal of Technology Management. She has also published several book chapters and in practitioner journals and was the lead author of the 'South Asia' chapter of the latest UNESCO Science Report.

Dilupa obtained BSc in electrical and electronic engineering (First Class Hons) at the University of Peradeniya, MBA in management of technology at the University of Moratuwa, Sri Lanka and PhD in innovation studies at Western Sydney University. Dilupa possesses a rare and diverse research method skillset where those qualitative and quantitative research skills enable her to do studies using the case study method, fuzzy expert systems, genetic algorithm, agent-based modelling, and structural equation modelling. She teaches innovation, entrepreneurship, and project management at both undergraduate and postgraduate levels. Before joining academia in 2007, she held multiple roles in engineering, integrated solution designs, quality assurance, business, process and project management, and compliance in a multinational business environment for over eight years. She is also a certified Project Management Professional in PMI, USA and a Design Thinking practitioner and has the PRINCE2 Practitioner qualification.

Speaker II:



Rahima Khatun
Electrical Engineer at K1 Save Energy &
Founder and CEO, Leading Women Australia and D RYMA Group
Melbourne, Australia

I, Rahima Khatun, an experienced Electrical Engineer background professional at the K1 Save Energy. Concurrently, the founder and CEO of the Leading Women Australia and D RYMA Group. The Leading Women Australia is a not-for-profit organisation dedicated to advancing women's leadership, equity, and representation. Through leadership programs, advocacy, and partnerships, we are creating pathways for women to thrive in engineering, construction, and other traditionally male-dominated industries. Furthermore, we provide coordination service in the government health industry as a registered provider, where at D RYMA GROUP, we lead a mission to deliver innovative and sustainable engineering solutions that transform industries and communities. At D RYMA, we focus on harnessing technology, research, and engineering excellence to design smarter, more energy-efficient systems that respond to the global demand for sustainability and resilience. "I lead multi-disciplinary projects across energy, defence, and sustainable infrastructure, turning blueprints into operational impact—from validating military systems at Tectonica Australia to developing a hydroelectric micro-grid with Engineers Without Borders, and streamlining national engineering inventory systems at Hanes Brands Inc. I am a dynamic engineering leader and internationally recognised speaker, appeal by IEEE Bangladesh to keynote on global educational migration and engineering research and projects, and by the University of Melbourne & IEEE

Women in Engineering to lead seminars on engineering career strategies, where I translate a decade of industry experience into actionable frameworks.

I am honoured to be recognised as a Women in Construction Ambassador and Mental Health in Construction Ambassador, actively advocating for diversity, inclusion, and wellbeing in technical industries. My community involvement extends to serving as a Board Member at Wellsprings for Women and as a System Change Youth Employment Advisor at the Brotherhood of St Laurence, where I contribute to advancing equity and opportunity. I hold a Master of Engineering Management from the University of Melbourne and a Bachelor of Electrical and Electronics Engineering, complemented by certifications in Business Management, WHS, and CNC Machining. My mission is to shape a future where engineering solutions are sustainable, leadership is inclusive, and women are fully represented at every level of decision-making.

Speaker III:



Dr. Renata Klafke
Lecturer in Management
School of Business and Law
Centre for Regional Economies and Supply Chains
Central Queensland University, Australia

I am a lecturer in Management at School of Business and Law, Central Queensland University, Melbourne Campus, Australia. With a PhD in Business Management (finished in July/2021), I bring over 20 years of experience to the academic and research world. Before PhD, I worked in various roles with the world's leading organizations such as P&O Nedlloyd (today Maersk), Votorantim Cements, Springer Carrier, etc. My research portfolio includes over 25 publications mostly in high-quality journals (Q1 and Q2). In addition, I secured research grants totalling USD 32,000.

I stepped into the academic world in 2013 (once my little girl was born) and received the opportunity to work with universities from many places, including Brazil, Germany and Australia. My global experience includes studying, researching, teaching, and collaborating in countries like Germany, Brazil, England and Australia. All these things allowed me to bring diversified and multicultural knowledge to the classroom. I have enjoyed teaching a range of business management subjects/units such as international business management, supply chain management, research in business, culture and globalization, and business theories, among others. As a practitioner academic, I effectively integrate theory with practice to improve students' skills for competitive job markets. Given the changing industry and educational dynamics, I constantly evaluate, review and update learning materials as well as participate in the development of new subjects and courses.

I also contribute to the academic community through editorial and reviewing activities for several reputable journals (Q1 & Q2). I am a reviewer for the International Journal of Knowledge Management (ABDC B, Q2), International Journal of Emerging Markets (ABDC B, Q2), Journal of Applied Research in Higher Education (Q2), Personnel Review (ABDC A, Q1), SAGE Open (Q1), Asia Pacific Business Review (Q2), among others. These roles reflect my ongoing commitment to advancing research in my fields of expertise.

Workshop

Adaptive and Inclusive Teaching in Management Education: Leveraging Generative AI with Universal Design for Learning

2:30 – 4:30 pm, Thursday, 26 November 2026

About the Workshop

By explicitly aligning GenAI use with Universal Design for Learning principles, this workshop offers a practical and inclusive approach to educational innovation in management education. It moves beyond risk-focused narratives to demonstrate how GenAI, when intentionally designed and critically engaged with, can enhance learner participation, understanding, and agency in diverse classrooms.

By the end of the workshop, participants will be able to:

1. Explain how Generative AI can be used to operationalize the core principles of Universal Design for Learning (engagement, representation, and action and expression) in management education.
2. Apply Generative AI to design inclusive learning activities that provide flexible entry points, enhance student engagement, and accommodate learner variability in management classrooms.
3. Design GenAI supported teaching and assessment practices that align with UDL principles while maintaining academic integrity and alignment with learning outcomes.

Intended Audience

The workshop is intended for management and business educators, teaching-focused academics, and educational developers interested in inclusive pedagogy, active learning, and responsible GenAI integration. The session is suitable for participants with minimal prior experience using GenAI.

Certificates will be provided after successful completion of the workshop.

Workshop Facilitators:



Dr Arshia Kaul
School of Business and Law
Central Queensland University
Melbourne, Australia

Dr Arshia Kaul is a Lecturer in Management in the School of Business and Law, Central Queensland University, Melbourne campus, with over a decade of experience in higher education across Australia and internationally. Her experience spans leading Australian institutions, including the University of Melbourne and Federation University. Her research spans Supply Chain Management, Quality Management, Education 4.0, and Sustainable Development across organisational contexts. To date, she has authored more than 30 peer-reviewed articles published in leading international journals, including several ranked in the ABDC categories (8 A and 4 B, 1 C). In addition to journal publications, she has developed two teaching cases published through Ivey Publishing—one on Rebel Foods and another on RampMyCity—as well as a case study on SecondBite Australia published with Sage Business Cases. She is a reviewer for the Higher Education Research and Development Society of Australasia (HERDSA) and a Steering Committee member of the PRME Working Group on Disability, Neurodiversity and Mental Health Inclusion. One of her most recent articles – “Impact of Generative Artificial Intelligence on Business Education: Insights from a Scoping Review” is now published in the Journal of Management and Organisation (Kaul et al., 2026).



Dr Imran Ali
School of Business and Law
Central Queensland University
Melbourne, Australia

Dr Imran Ali is an Associate Professor and Discipline Leader in Management and Innovation at the School of Business and Law, Central Queensland University, Melbourne campus, where he leads a team of academics and drives excellence in learning and teaching. He has played a key role in developing new subjects and programs, responding to evolving industry needs, particularly in artificial intelligence, digital innovation, and the future of work. His scholarship in learning and teaching includes published case studies, research articles, leadership in learning and teaching initiatives, and contributions to a grant on the ethical use of generative AI in higher education. Dr Ali has also published over 75 articles in leading journals and has been recognised among Stanford University's top 2% most cited researchers in Business and Management (2024, 2025). He serves on several editorial boards and is committed to innovative, industry-engaged education.



Dr Aman Ullah
Faculty of Business and Economics
University of Melbourne
Melbourne, Australia

Dr Aman Ullah holds a doctoral degree in Human Resource Management from Deakin University, demonstrating his strong academic background in the HRM field. With over 15 years of academic experience at Australian universities, Aman has a solid foundation in human resource management theory. In addition to his academic background, Aman has led high-performance teams at major multinational organisations such as Novartis and Servier Pharmaceuticals, bringing a unique blend of academic rigour and practical industry insights. This combined experience allows Aman to connect theoretical ideas with real-world business practices in his teaching. He is a reviewer for the Higher Education Research and Development Society of Australasia (HERDSA), Australia and New Zealand Academy of Management (ANZAM) and MOBTS. He also reviewed several journal articles for leading journals such as Journal of Knowledge Management and Management Decisions. One of his most recent articles – "Impact of Generative Artificial Intelligence on Business Education: Insights from a Scoping Review" is now published in the Journal of Management and Organisation, an ABDC – A-ranked journal.

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Dr Spring Zhou, Associate Professor, School of Business, Faculty of Business and Law, University of Wollongong, Australia

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Dr Spring Zhou, Associate Professor, School of Business, Faculty of Business and Law, University of Wollongong, Australia

Dr Peter Shi, Director of Research Centre for Transport, Logistics and Global Supply Chain Management, FoRC Champion in Transport, Logistics and Supply Chain Management, Department of Management, Macquarie Business School, Macquarie University, Australia

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Dr Samadi Madiwala, Victoria University, Melbourne, Australia

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Dr Shamsul Huda, Lecturer in Computer Science, Cyber Security Research and Innovation Centre (CSRI), School of Information Technology, Faculty of Science Engineering and Built Environment, Deakin University, Burwood, Victoria, Australia

Dr Santoso Wibowo, Associate Professor, Centre for Intelligent Systems, School of Engineering and Technology, Central Queensland University, Australia.

Automation, Robotics and Autonomous Systems
Dr. Indra Gunawan, Adelaide Business School, Faculty of Arts, Business, Law and Economics, The University of Adelaide, Australia

Associate Professor Dr Nagesh Shukla, Department of Business Strategy and Innovation, Griffith Business School, Griffith University, QLD, Australia

Business Management and Operations Management
Dr Peter Shi, Director of Research Centre for Transport, Logistics and Global Supply Chain Management, FoRC Champion in Transport, Logistics and Supply Chain Management, Department of Management, Macquarie Business School, Macquarie University, Australia

Dr Samadi Madiwala, Victoria University, Melbourne, Australia

Digital Manufacturing, Industry 4.0 and IoT
Dr Suraiya Binte Mostafiz, Senior Research Fellow, School of Bioscience, University Technology Malaysia (UTM), Johor Bahru, Malaysia.

Engineering Management and Project Management
Professor Ambika Zutshi, Professor (Management), School of Business, University of Southern Queensland, Australia

Entrepreneurship
Dr Matthew Pepper, Professor, School of Business, Faculty of Business and Law, University of Wollongong NSW 2522, Australia

Facility Planning and Layout
Dr Reza Kiani Mavi, Senior Lecturer, the School of Business and Law, Edith Cowan University, WA 6027, Australia

Dr. Marjia Haque, Systems Engineering, Supply Chain Management & Decision Analytics, UNSW Canberra, Australian Capital Territory, Australia

Human Factors, Ergonomics and Healthcare System Management
Dr Mostafa Khatami, Lecturer, School of Business, Faculty of Business and Law, University of Wollongong, Wollongong, NSW, Australia

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Lean Six Sigma and Operations Excellence
Dr Sanjoy Paul, Program Director, Master of Strategic Supply Chain Management programs, Senior Lecturer, UTS Business School, University of Technology Sydney, Australia

Manufacturing
Associate Professor Jo Staines, Enterprise Fellow, Mechanical Engineering, University of Melbourne, Australia.

Dr Spring Zhou, Associate Professor, School of Business, Faculty of Business and Law, University of Wollongong, Australia

Quality, Reliability and Maintenance
Dr Guilherme Luz Tortorella, Senior Lecturer, Mechanical Engineering, University of Melbourne, Australia

Simulation, Optimization and Productivity Improvement
Dr Roberto Chavez Clavijo, Senior Lecturer, Supply Chain Management, Department of Management and Marketing, Swinburne Business School, Swinburne University of Technology, Victoria, Australia

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Dr Mohsin Malik, Associate Professor & Director – Master of Project Management, Swinburne Business School, Swinburne University of Technology, Australia.

Sustainability, Renewable and Alternative Energy
Professor Jan-Harm Christiaan Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, South Africa

Case Studies and Best Practices
Dr Renata Klafke, Lecturer in Management, School of Business and Law, Central Queensland University, Australia

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- Rodney Entwistle, Curtin University, Bentley, WA
- Farshid Evazabadian, School of Electrical Engineering and Computing, Callaghan, NSW
- Behnam Fahimnia, University of Sydney Sydney New South Wales
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- Roger Hadgraft, University of Technology Sydney, Ultimo, NSW
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- Zahidul Haque, Zahid Hoque, Manager Pavement Performance at Roads and Maritime Services, Sydney
- Maruf Hasan, University of New South Wales, Sydney, New South Wales
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- Sardar Islam, Victoria University Melbourne, Victoria
- Prof. Sardar M N Islam (Naz), Victoria University Melbourne, Victoria
- Naeem Janjua UNSW, Canberra, Canberra, ACT
- Ananda Jeeva, Curtin University of Technology, Perth, Western Australia
- Ferry Jie, Edith Cowan University, Perth, Western Australia
- Mohammed Kaosar, Murdoch University, Perth, Western Australia
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Parallel Sessions

All Times are Sydney Time (AEDT)

Tuesday, November 24, 2026			
	Onsite Room 1	**Onsite Room 2**	**Virtual Room**
9:00 am	Business Management and Operations Management	Artificial Intelligence and Data Science / Automation, Robotics and Autonomous Systems	
11:00 am	Welcome Address by Conference Chair: Professor Dr. Matthew Pepper, Director, Centre for Supply Chain Research, School of Business, Faculty of Business and Law, University of Wollongong NSW 2522 Australia		
11:10 am	Opening address: Professor Trish Mundy, Executive Dean, Faculty of Arts, Society and Business, University of Wollongong, Australia		
11:30 am	Keynote I: Ty Christopher, Director, Energy Futures Network Australia & General Manager, Asset Management, Endeavour Energy Australia		
12:10 pm	Keynote II: Dr Clayton McDowell, Associate Director Sustainability, Infrastructure and Property Division, University of Wollongong, Australia		
1:00 pm	Onsite Lunch Break		
2:00 pm	Plenary: Global Engineering Education: Skills & the Future Workforce	High School STEM Competition / Senior Design- FYP Competition / Graduate Student Paper Competition / Master Thesis Competition / Doctoral Dissertation Competition / / Supply Chain and Logistics Competition	High School STEM Competition / Senior Design- FYP Competition / Undergraduate Student Paper Competition / Undergraduate Research Competition / Doctoral Dissertation Competition / Global Design Competition
4:00pm	Case Studies and Best Practices / Manufacturing, Assembly and Design / Quality, Reliability and Maintenance	Sustainability, Green Systems and Energy	Supply Chain and Logistics Competition / Human Factors and Ergonomics Competition / Artificial Intelligence and Data Science/ Automation, Robotics and Autonomous Systems
6:00pm			

Wednesday, November 25, 2026			
	Onsite Room 1	**Onsite Room 2**	**Virtual Room**
9:00 am	Plenary: Industry 4.0 and Digital Transformation	Human Factors, Ergonomics and Healthcare Systems	
11:10 am	Keynote III: Amanda MacKinnell MBA MAIPM, Industry Capability Development – Strategy & Studies, Head Industry Engagement & Global Supply Chain, L3Harris Technologies, Canberra, Australian Capital Territory, Australia		
11:50 am	Keynote IV: Dr Adrian Tootell, Extensive Industry Experience in Product Research, Integrated Operations, Process Manufacturing and Key Customer Engagement, Australia		
12:30 pm	Keynote V: Dr Azharul Karim, Professor, Mechanical Engineering, Director: Advanced Drying and Sustainable Energy Research (ADSER), Associate Editor: Drying Technology Journal Faculty of Engineering, Queensland University of Technology, Brisbane, Australia		
1:10 pm	Onsite Lunch Break		
2:00 pm		**Site visit:** Sustainable Buildings Research Centre, UOW	Business Management and Operations Management / Engineering Management and Project Management /
4:00pm	Simulation, Optimization and Productivity Improvement	Supply Chain and Logistics	Entrepreneurship and Innovation / Lean Six Sigma and Operations Excellence/ SCL
6:00 pm			

Thursday, November 26, 2026			
	Onsite Room 1	**Onsite Room 2**	**Virtual Room**
9:00 am	Plenary: Global Business Management	Panel: Supply Chain Analytics and Optimization	
11:20 am	Keynote VI: Prof Arun Abraham Elias, Director, Goa Institute of Management, India School of Management, Victoria University of Wellington, New Zealand (on leave)		
12:00 pm	Keynote VII: Dr George Panas, Twenty-Five years of Senior Management Experience in Industry, Enterprise Fellow & Director of Engagement, Department of Management and Marketing, University of Melbourne, Australia		
1:00-2:30 pm	**Award Luncheon and closing remarks**		
2:30 pm	Panel: Leadership, inclusion and the Future of Engineering Management	Workshop: Adaptive and Inclusive Teaching in Management Education: Leveraging Generative AI with Universal Design for Learning	Supply Chain and Logistics
4:30 pm	Business Management and Operations Management		Sustainability, Green Systems and Energy / Simulation, Optimization and Productivity Improvement
6:30 pm			

November 24, 2026 (Tuesday)

9:00 – 11:00 am, Tuesday, November 24 **Onsite Room 1**

Business Management and Operations Management

Session Chair: Dr Spring Zhou, Associate Professor, School of Business, Faculty of Business and Law, University of Wollongong, Australia

ID 20 Decoding the Global Oil Market: A Three-Decade Analysis of Production, Governance, and Quality of Life
Rafael H. M. Ferreira, Dr. in Production Engineering, Federal University of Technology – Brazil (UTFPR), Ponta Grossa, Paraná, Brazil
Priscila Rubbo, Associate Professor in Production Engineering, Federal University of Technology – Brazil (UTFPR), Ponta, Grossa, Paraná, Brazil
Renata Klafke, Dr. in Business Management, CQUniversity Australia, School of Business and Law, Melbourne, Victoria, Australia
Claudia T. Picinin, Professor in Production Engineering, Federal University of Technology – Brazil (UTFPR), Ponta Grossa, Paraná, Brazil

ID 30 Payment Reliability in Online Freelancing Operations: Contract Design, Employer Heterogeneity, and Settlement Outcomes
Abdulaziz Alshalfan, Assistant Professor of Operations and Supply Chain Management, Department of Information Systems and Operations Management, College of Business Administration, Kuwait University, Kuwait City, Kuwait

ID 52 Modeling Facilitators in Industry 4.0 Environment for Production & Marketing Operations – Indian MSME perspective
Pappu Kalyanram, PRS Sarma, Subrat Kumar Sahoo, Paari School of Business, SRM University, Andhra Pradesh, India

ID 54 Complexity Within the Shift Toward Public e-Purchasing: A Critical System Thinking Approach
Yanes Panie (PhD Candidate), Matthew Pepper (Professor), Jonathon MacKay (Honorary Fellow) and Ethan Nikookar (Senior Lecturer), School of Business, University of Wollongong (UOW), Wollongong, New South Wales, Australia

ID 59 Warmth over Realism: Why Affective Likeability Trumps Technical Anthropomorphism and Expertise in Virtual Live-Streaming
Tien-Dat Bui, Department of Industrial Engineering, National Formosa University (NFU), Huwei, Yunlin, Taiwan
Chih-Hsiung Hu, Associate Professor, Department of Industrial Engineering, National Formosa University (NFU), Huwei, Yunlin, Taiwan
Tien-Dat Nguyen, Faculty of Economics and Management, Van Hien University, Ho Chi Minh City, Vietnam, and Department of Smart Industry Technology Research and Development, National Formosa University, Huwei, Yunlin, Taiwan
Chih-Chin Liang, Professor, Department of Business Administration, National Formosa University (NFU), Huwei, Yunlin, Taiwan.

ID 69 Comparing the Explanatory Power of Tone and Dictionary-Based Word Frequencies for Future Firm Performance
Taito Seya, Department of Business Design and Management, Graduate School of Creative Science and Engineering, Waseda University, Tokyo, Japan.
Takaaki Kawabe, Course of Engineering, Graduate School of Engineering, Kanagawa University, Kanagawa, Japan.
Ayuko Komura, Faculty of Business Administration, Toyo University, Tokyo, Japan.
Hirohisa Hirai, Department of Industrial and Management Systems Engineering, Waseda University, Tokyo, Japan.

ID 70 Extending Accounting Fraud Detection Based on Benford's Law Beyond the First Digit
Ryo Tamura, Graduate School of Engineering, Kanagawa University, Kanagawa, Japan.
Natsuki Sato, Graduate School of Business Administration, Hitotsubashi University, Tokyo, Japan.
Ayuko Komura, Faculty of Business Administration, Toyo University, Tokyo, Japan.
Hirohisa Hirai, School of Creative Science and Engineering, Waseda University, Tokyo, Japan.

ID 73 Managing Organizational Change: Integrating the ADKAR Model, HRM Response and Hospital Surge Capacity in Times of Crisis
Samadi Madiwala, Sessional Lecturer, Victoria University, Melbourne, Australia.

9:00 – 11:00 am, Tuesday, November 24 **Onsite Room 2**

Artificial Intelligence and Data Science / Automation, Robotics and Autonomous Systems/Energy

Session Chair: Dr Ethan Nikookar, Deputy Discipline Leader, Supply Chain & Analytics; and Deputy Director, Centre for Supply Chain Research, University of Wollongong, School of Business, Wollongong, Australia

ID 17 Development of a capacity building Roadmap for Artificial Intelligence (AI) adoption among South African SMMEs.
Refilwe Sophy Matlakala, Department of Quality & Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa.
Daramy Vandi Von Kallon, Department of Mechanical and Industrial Engineering Technology, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa.

ID 159 Hybrid Implied-Price and Gradient Boosting Model for Airbnb Price Prediction in Brisbane
Md Ainul Haque Bishal, Macquarie University, Australia.

ID 160 A Leak-Free Hybrid Elo, Poisson and Machine Learning Model for Forecasting the 2026 FIFA World Cup
Md Bayzid Ibrahim, Macquarie University, Australia

ID 3 Re-shaping Productivity in Industry 5.0 through Human–Robot Collaboration: Insights from Australian Aircraft and Mechanical Engineering
Nazia Mustary Nayna, UTS, Sydney, Australia

ID 142 Identification of Adoption Factors in the Emerging Knowledge: Levels of Analysis for Blockchain-Enabled Smart Contracts in PPP Infrastructure Research
Ajalah Musa Yahaya, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, Durban University of Technology (DUT), Durban, South Africa.
Iruka Chijindu Anugwo, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, Durban University of Technology (DUT), Durban, South Africa.

ID 147 A Socio-Technical Framework for Integrating Local- Traditional Knowledge into Digital Platforms for Sustainability
Joshua Cornelius and Shiva Abdoli, School of Mechanical and Manufacturing Engineering, University of New South Wales (UNSW), Sydney, New South Wales, Australia.
Ashwarya Chand, Shivanjali Singh and Amitesh Deo, Pacific Recycling Foundation, Suva, Fiji.

ID 180 Digital Shadows for Infrastructure Monitoring and Decision Support
Nilupa Herath, Senior Lecturer, Department of Infrastructure Engineering, Faculty of Engineering and Information Technology, The University of Melbourne, Vic 3010, Australia.
Lu Aye, Professor of Energy Engineering, Leader of the Renewable Energy and Energy Efficiency Group, Department of Infrastructure Engineering, Faculty of Engineering and Information Technology, The University of Melbourne, Vic 3010, Australia.
Arzoo Atiq, Lecturer, School of Computing and Information Systems, The University of Melbourne, Victoria 3010, Australia.
Milad Baghalzadeh Shishehgarkhaneh, Research Assistant, Department of Infrastructure Engineering, University of Melbourne, Australia.
Robert C. Moehler, Senior Lecturer, Department of Infrastructure Engineering, Faculty of Engineering and Information Technology, The University of Melbourne, Vic 3010, Australia.

11:00 – 1:00 pm, Tuesday, November 24 **Onsite Room 1**

Welcome and Keynotes

Moderator: Dr Shamsul Huda, School of Information Technology, Faculty of Science Engineering and Built Environment, Deakin University, Burwood, Victoria, Australia

11:00 – 11:10 am: Welcome address: Conference Chair, Professor Dr. Matthew Pepper, Director, Centre for Supply Chain Research, School of Business, Faculty of Business and Law, University of Wollongong NSW 2522 Australia

11:10 – 11:30 am: Acknowledgement of country/ Opening address:

11:30 – 12:10 pm: Keynote I: Ty Christopher, Director, Energy Futures Network Australia & General Manager, Asset Management, Endeavour Energy, Australia `

12:10 – 12:50 pm: Keynote II: Dr Clayton McDowell, Associate Director Sustainability, Infrastructure and Property Division, University of Wollongong, Australia

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1:00 – 2:00 pm, Tuesday, November 24 **Onsite Room 1**

Lunch break

2:00 – 4:00 pm, Tuesday, November 24 **Onsite Room 1**

Plenary: Global Engineering Education: Skills & the Future Workforce

Chair and Speaker I:
Dr Sabrina Fawzia
Senior Lecturer, Civil and Environmental Engineering (CEE)
Senior fellow and Associate fellow (Indigenous knowledge) from Advanced HE
Subject area coordinator for CEE, Faculty of Engineering
Queensland University of Technology, Brisbane, Australia

Co-chair and Speaker II:
Dr Azharul Karim
Professor, Mechanical Engineering
Director: Advanced Drying and Sustainable Energy Research (ADSER)
Associate Editor: Drying Technology Journal
Faculty of Engineering,
Queensland University of Technology, Brisbane, Australia

Speaker III:
Dr Felix Kin Peng Hui
Associate Professor of Engineering Management and an Academic Specialist
Department of Infrastructure Engineering
University of Melbourne, Melbourne, Australia

Speaker IV:
Professor Ann Rogerson SFHEA J.P.
Chair – UOW Academic Integrity Advisory Group
Academic Lead: Assessment Reimagined Project
Faculty of Arts, Society and Business
University of Wollongong, Wollongong, NSW, 2500, Australia

Speaker V:
Dr Md Mizanur Rahman
PhD FIEOM CEng MEI Chartered Energy Engineer MIEAust
Adjunct Professor, University of Sydney, Sydney, Australia
Director of IEOM Australia Operations, Sydney, Australia
mizanur@ieomsociety.org

ID 61 Assuring Student Learning through Assessment Redesign for Operations and Supply Chain Management Education in a GenAI World
Ann Rogerson, Professor, School of Business/Supply Chain & Business Analytics, University of Wollongong (UOW), Wollongong, New South Wales, Australia.
Tay Huay Ling, Associate Professor, School of Business/Logistics & Supply Chain Management, Singapore University of Social Sciences (SUSS), Singapore.

2:00 – 4:00 pm, Tuesday, November 24 **Onsite Room 2**

High School STEM Competition / Senior Design- FYP Competition / Graduate Student Paper Competition / Master Thesis Competition / Doctoral Dissertation Competition/ Supply Chain and Logistics Competition/ Poster

Session chair: Dr Md Mizanur Rahman, University of Sydney, Sydney, Australia, and IEOM Australia

High School STEM Competition

ID 116 Identification of Menstrual Phase-Specific Endometrial Transcriptomic Biomarkers for Endometriosis Using Multi-Cohort Random-Effect Meta-Analysis and LASSO
Lexie Lin, Sydney Girls High School, Australia.

Senior Design- FYP Competition

ID 173 Dynamic and Explainable Machine Learning Model for Predicting Estimated Arrival Times (ETAs) of Steel Coils to the Painting Process in a Steel Manufacturing Company
Andrés Baudel Colmenares Levario, María Paula Romero Vázquez and Ximena Tovar Martínez, Students, School of Engineering and Technologies, Universidad de Monterrey (UDEM), San Pedro Garza García, Nuevo León, México.
Adrian Macias-Lopez, Ph.D., Thesis Advisor, School of Engineering and Technologies, Universidad de Monterrey (UDEM), San Pedro Garza García, Nuevo León, México.

ID 189 Dynamic and Explainable Machine Learning Model for Predicting Estimated Arrival Times (ETAs) of Steel Coils to the Painting Process in a Steel Manufacturing Company
Andrés Baudel Colmenares Levario, María Paula Romero Vázquez and Ximena Tovar Martínez, Students, School of Engineering and Technologies, Universidad de Monterrey (UDEM), San Pedro Garza García, Nuevo León, México.
Adrian Macias-Lopez, Ph.D., Thesis Advisor, School of Engineering and Technologies, Universidad de Monterrey (UDEM), San Pedro Garza García, Nuevo León, México.

Graduate Student Paper Competition

ID 23 The Clarity Gap in Expertise-Based Services: A Qualitative Study of Structuring Tacit Knowledge into Advisory and Mentoring Programs
Talita Meira, Doctor of Business Administration Candidate, Hult International Business School.

Doctoral Dissertation Competition

ID 24 Human Resource Management Challenges and Response Strategies In Sri Lankan Hospitals Amidst A Dual Crisis Context
Samadi Madiwala, Sessional Lecturer, Victoria University, Melbourne, Australia.

ID 63 Assessment of Recent Studies on Performance of Hydrogen/Diesel Dual-fuel Engine: A Retrofit Aspect
Mohammed Al Riyami, Tasneem Pervez, Nabeel Z. Al-Rawahi, Afzal Hussain and Ahmed ElWardany, Mechanical and Industrial Engineering Department, Sultan Qaboos University, Muscat, Oman.
Rashid S.H. Al-Hajri, Petroleum and Chemical and Engineering Department, Sultan Qaboos University, Muscat, Oman.

Supply Chain and Logistics Competition

ID 171 Decided Before Launch: Supply Chain Resilience Debt in New Product Development
Muhammad Akram, Industrial Engineering Department, Al-Yamamah University, Alkhobar, Kingdom of Saudi Arabia.

Master Thesis Competition

ID 15 Machine Learning Models for Customer Churn Prediction.
Bharti Joshi, Student, India

ID 60 The Impact of Future Price Forecasts on Strategic Booking Behavior and Revenue under Hotel Dynamic Pricing
Junsei Ito, Graduate School of Engineering, Kanagawa University, 3-27-1 Rokkakubashi, Kanagawa-ku, Yokohama, Kanagawa 221-8686, Japan.
Kimitoshi Sato, Faculty of Business Administration, Nanzan University, 18 Yamazato-cho, Showa-ku, Nagoya, Aichi 466-8673, Japan.

2:00 – 4:00 pm, Tuesday, November 24 **Virtual Room**

High School STEM Competition / Undergraduate Student Paper Competition / Undergraduate Research Competition /Graduate Student Paper Competition/ Doctoral Dissertation Competition / Global Design Competition / Poster Competition

Session chair: Dr. Nazrul Islam, IEOM Society International, Canada
Co-chair: Sowmya Ala, Packaging Engineer, Ford Motor Company, USA

High School STEM Competition

ID 2 Bacterial Cellulose Based Scaffolds for Controlled Oxygen Delivery in Low-Resource Regions
Goutham Koppolu, Independent, United States.
Aarna Dwivedi, Independent, United States.

ID 48 Performance Evaluation of the Persistence Method in Photovoltaic Power Forecasting Using Real Data
Zeynep Beril Kiper, High School Student, TED Ankara College High School, 06830, Ankara, Türkiye.
Dr. Şeyma Songül Özdilli, Ph.D. in Electrical and Electronics Engineering, Hacettepe University, Electrical and Electronics Engineering Dept., 06800, Ankara, Türkiye.

ID141 SmartHarvest: A Mathematical Decision Model for African Catfish Harvest Timing
Principia D. Haniefah and Diana S. Mardijanti, SMA Negeri 3 Bandung, Jl. Belitung No. 8, Bandung, West Java, Indonesia.

191 HelpMate: A Location-Based Platform for Community Micro-Volunteering
Rishit Vasudeva, Chatswood High School, Sydney, New South Wales, Australia.

Undergraduate Student Paper Competition

ID 34 Improving Productivity at an Automotive Hose Manufacturer Through Lean Manufacturing
Eslie Rebeca Donayres-Ramirez, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú.
Ariana Luz Gutierrez-Rodriguez, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú.
Javier M. Castillo-Tejada, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú.
Jorge Antonio Corzo-Chavez, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú.

ID 35 An Integrated Inventory Management Model Based on Demand Forecasting, Material Requirements Planning, and Warehouse Practices to Reduce Stockouts: A Case Study of a Restaurant Chain in Peru
Ramiro A. Cuenca-Diaz, Industrial Engineering Graduate, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú.
Joseph A. Quispe-Ayme, Industrial Engineering Graduate, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú.
Javier M. Castillo-Tejada, Research Professor, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú.
Jorge Antonio Corzo-Chavez, Research Professor, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú.

Undergraduate Research Competition

ID 148 Drivers of Information Adoption of Tiktok Content and its Relationship to Purchasing Intentions of Generation Y and Z in the Philippines
Cheyenne Nicole P. Bagay, Jasmine Bess D. Dabu, Cyril Denise M. Lucas and Anglaise Ganache E. Tiama, 4th Year Industrial Engineering Students, Department of Industrial Engineering, University of Santo Tomas - Manila, Sampaloc, Manila, Philippines.
Engr. Jesselyn B. Alcain, MS, Professor, Department of Industrial Engineering, University of Santo Tomas - Manila, Sampaloc, Manila, Philippines.

Master Thesis Competition

ID 62 A Human-in-the-Loop Multi-Criteria Decision Model for Critical Spare-Parts Prioritization under Uncertain Lead Times
Molham Maihoub, Master's Program in Infrastructure and Environmental Engineering, Universitas Warmadewa, Denpasar, Bali, Indonesia.

Graduate Student Paper Competition

ID 145 Semantic Classification of Project-Problem-Solution Categories in Construction Project Delays for Supporting Decision-Making with Sentence-BERT
Bangun Marpaung, PhD Candidate, Graduate School of Engineering Science and Technology, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan.
Andrea Zalaegradsza Galla, Master's student, Department of Civil and Construction Engineering, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan.
Wei-Tong Chen, Distinguished Professor / Dean of College of Engineering, Graduate School of Engineering Science and Technology, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan.
Ying-Hua Huang, Professor, Department of Civil and Construction Engineering, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan.

ID 146 Climate Resilience Disclosure and IFRS S2 Alignment among Cement Companies in Taiwan
Andrea Zalaegradsza Galla, Master's student, Department of Civil and Construction Engineering, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan.
Bangun Marpaung, PhD Candidate, Graduate School of Engineering Science and Technology, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan.
Wei-Tong Chen, Distinguished Professor / Dean of College of Engineering, Graduate School of Engineering Science and Technology, National Yunlin University of Science and Technology, Douliu, Yunlin, Taiwan.

Doctoral Dissertation Competition

ID 105 A Conceptual Framework for the Adoption of Additive Manufacturing in the South African Automotive Industry: Development and Empirical Validation Using PLS-SEM
Shelly Thandiwe Mona and Mfundo Nkosi, Department of Industrial and Mechanical Engineering Technology, University of Johannesburg, South Africa.

ID 111 An Indicator-Level Analysis of Organisational Readiness for Additive Manufacturing Adoption in the South African Automotive Industry

Shelly Thandiwe Mona, Department of Industrial and Mechanical Engineering Technology, University of Johannesburg, South Africa.
Mfundo Nkosi, Department of Industrial and Mechanical Engineering Technology, University of Johannesburg, South Africa.

Global Design Competition

ID 49 DopaReset: An AI-Powered Digital Platform for Addiction Recovery
Abdullah Mohammed Saif Ali, Artificial Intelligence Department, University of Jeddah, Saudi Arabia.

Poster Competition

ID 113 Economic Law Analysis of the Prohibition on National Retail Franchises as a Strategy for Strengthening Local Retail in West Sumatra
Mustafa, Universitas Proklamasi 45, Indonesia
Slamet Sarwo Edy, Universitas Proklamasi 45., Indonesia
Iratna Dewi, Universitas Prima Nusantara Bukittinggi, Indonesia

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4:00 – 6:00 pm, Tuesday, November 24 **Onsite Room 1**

Case Studies and Best Practices / Manufacturing, Assembly and Design / Quality, Reliability and Maintenance

Session Chair: Dr Refilwe Sophy Matlakala, Department of Quality & Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

ID 18 The Use Of Blue Whale Genes In DNA Reparation To Prevent Cancer
Santiago Arizpe, Tecnológico de Monterrey, Monterrey, México.

ID 103 Resilience and Sustainable Transformation: A Multiple-Case Study of Crisis-Induced Human Resource Practices across Successive Crises
Samadi Madiwala, Sessional Lecturer, Victoria University, Melbourne, Australia.

ID 176 A Decision-Support Framework for Machine Allocation and Capacity Planning in Manufacturing: An Industrial Case Study
Kishorkumar Semalaiappan Marimuthu, School of Engineering, RMIT University, Victoria, Australia.
Matthew Farmer, ANCA, Australia.
Vijay Vysakumar, ANCA, Australia.
John Mo, School of Engineering, RMIT University, Victoria, Australia.
Songlin Ding, School of Engineering, RMIT University, Victoria, Australia.

ID 22 Characterization of Natural Fiber Reinforced Composite Laminates: Alternative Structural Materials
Ibe Godwin Anwara and Nwachi Chukwu, Department of Mechanical Engineering Technology, School of Engineering Technology, Akanu Ibiam Federal Polytechnic, Unwana, Ebonyi State, Nigeria.

ID 66 A Data-Driven Probabilistic Framework for Estimating Asset Life Cycle Cost and Optimal Economic Life: A Steam Turbine Case Study
Winda Nur Cahyo, Faculty of Industrial Technology, Universitas Islam Indonesia (UII), Jl. Kaliurang Km 14.4, Sleman, Yogyakarta, Indonesia.
Fransisco TP Simamora, PT. Geo Dipa Energi (Persero), Jakarta, Indonesia.

ID 102 Quality Control and Lean Process Improvement in Beverage Manufacturing: An Industrial Engineering Framework
Yonas Kelali Germay, Department of Industrial Engineering, Dire Dawa University, Dire Dawa, Ethiopia.

ID 120 Quality 4.0 Adoption in Manufacturing: A Systematic Literature Review and Digital Readiness Framework.
Sibahle Shandu, Operations and Quality Management, Faculty of Management Sciences, Durban University of Technology, KwaZulu-Natal, South Africa.
Tunde Basit Adeleke, Institute of Systems Sciences, Durban University of Technology, KwaZulu-Natal, South Africa.
Manaduth Ramchander, Operations and Quality Management, Faculty of Management Sciences, Durban University of Technology, KwaZulu-Natal, South Africa.

4:00 – 6:00 pm, Tuesday, November 24 **Onsite Room 2**

Sustainability, Green Systems and Energy

Session Chair: Dr. Pappu Kalyanram (Presenting Author), Assistant Professor, Paari School of Business, SRM University, Andhra Pradesh, India.
Co-chair: Dr Abdulaziz Alshalfan, Assistant Professor of Operations and Supply Chain Management, Department of Information Systems and Operations Management, College of Business Administration, Kuwait University, Kuwait City, Kuwait

ID 4 Impediments to the implementation of Green ICT in a South African Telecom Company
Barnes Sookdeo, Professor, Department of Operations Management, University of South Africa (Unisa), Pretoria, Gauteng Province, South Africa.
Sivapragasen Naidoo, Master's Student, Department of Operations Management, University of South Africa (Unisa), Pretoria, Gauteng Province, South Africa.

ID 16 Environmental Impact Assessment of Readymade Garments Manufacturing Facility in Bangladesh
Papia Akter, Deputy Management Director (Finance), Matrix Sweaters Ltd, Gazipur, Bangladesh.
Farhan Hossen, BRAC Business School, BRAC University, Dhaka, Bangladesh.
Md. Saimon Chowdhury, Department of Economics, Jahangirnagar University, Dhaka, Bangladesh.
Tapas Barai, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology, Bangladesh.
Md. Kamrul Hasan Chowdhury, Department of Mechanical Engineering, Rajshahi University of Engineering and Technology, Rajshahi 6204, Bangladesh.

ID 53 Institutionalization of sustainability practices and programs in Indian Higher Education Institutions – Developing a Priority Model
PRS Sarma, Subrat Kumar Sahoo, Pappu Kalyanram, Paari School of Business, SRM University, Andhra Pradesh, India.

ID 104 Forecasting Tourism Demand For Sustainable Development Growth
Dila Ram Bhandari, Tribhuvan University, Kathmandu, Nepal.

ID 110 Resilient Electric Vehicle Charging Stations in Urban Areas: A Bibliometric Review
Eric Mogire, Peter John Kilbourn and Rose Luke, Department of Transport and Supply Chain Management, Institute of Transport and Logistics Studies (Africa), University of Johannesburg, Auckland Park, Johannesburg 2006, South Africa.

ID 112 Whole-of-Life Decision Framework for Sustainable Long-Life Concrete Bridge Infrastructure
Samantha Stojanovski (PhD Candidate), Olivia Mirza (Professor) and Christophe Camille (Adjunct Fellow), School of Engineering, Design and Built Environment, Western Sydney University (WSU), Kingswood, NSW, Australia.
John Hilton, Technical Director, Aurecon, North Sydney, Australia.

ID 151 Water–Energy–Hydrogen Nexus Optimization of Green Hydrogen Supply Chains: A Multi-Objective MILP with Endogenous Water Sourcing for Portugal
Muhammad Ahmad Iqbal, Lecturer, Department of Industrial Engineering, Al Yamamah University, Saudi Arabia.

ID 172 Gene cloning and characterization of recombinant lipase from Serratia liquefaciens AB1 for environmental remediation
Abayomi Solomon Baruwa, PhD scholar, Department of Biotechnology and Food Science, Durban University of Technology, Durban, South Africa.
Kugenthiren Permaul, Professor, Department of Biotechnology and Food Science, Durban University of Technology, Durban, South Africa.

ID 174 Bibliometric Analysis of Sustainable and Green Maritime Transport Research: Evolution, Emerging Trends, and Future Directions
Fedy Ouni, Maritime Logistics & Supply Chain Management Department, Sharjah Maritime Academy, United Arab Emirates.
Manel Ouni, PhD, Department of Economics, Higher School of Business of Tunis, University of Manouba, Tunisia.

ID 177 Renewable-Electricity Pathways for Partial Diesel Displacement on Seira Island, Indonesia
Elisa Lumantarna, Associate Director, Early Career and Graduate Researchers, Centre for Disaster Management and Public Safety, Department of Infrastructure Engineering, The University of Melbourne, Vic 3010, Australia.
Lu Aye, Professor of Energy Engineering, Leader of the Renewable Energy and Energy Efficiency Group, Department of Infrastructure Engineering, Faculty of Engineering and Information Technology, The University of Melbourne, Vic 3010, Australia.
Adi Surjosatyo, Professor, Director of the Tropical Renewable Energy Center (TREC), Mechanical Engineering Department, Faculty of Engineering, Universitas Indonesia, UI Depok Campus 16424, Indonesia.
Philip Christopher, Senior Lecturer, Department of Infrastructure Engineering, Faculty of Engineering and Information Technology, The University of Melbourne, Vic 3010, Australia.
Yinghui Tian, Professor of Civil Geotechnical Engineering, Department of Infrastructure Engineering, Faculty of Engineering and Information Technology, The University of Melbourne, Vic 3010, Australia.

ID 179 Mixed-Mode Cooling with Elevated Setpoints in Bogor Row Houses
Nilupa Herath, Senior Lecturer, Department of Infrastructure Engineering, Faculty of Engineering and Information Technology, The University of Melbourne, Vic 3010, Australia.
Lu Aye, Professor of Energy Engineering, Leader of the Renewable Energy and Energy Efficiency Group, Department of Infrastructure Engineering, Faculty of Engineering and Information Technology, The University of Melbourne, Vic 3010, Australia.
Wangi Pandan Sari, Lecturer, Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gadjah Mada, Yogyakarta 55281, Indonesia.
Ova Candra Dewi, Associate Professor, Head of the Architecture Department, the Faculty of Engineering, the Tropical Renewable Energy Center (TREC), Universitas Indonesia, UI Depok Campus 16424, Indonesia.
Felix Kin Peng Hui, Associate Professor of Engineering Management and the Associate Dean (International), Faculty of Engineering and Information Technology, The University of Melbourne, Vic 3010, Australia.

4:00 – 6:00 pm, Tuesday, November 24 **Virtual Room**

Supply Chain and Logistics Competition / Human Factors and Ergonomics Competition / Artificial Intelligence and Data Science / Automation, Robotics and Autonomous Systems

Session Chair: Aqib Islam, IEOM Society International, Bangladesh

Supply Chain and Logistics Competition

170 Stockyard Inventory Sufficiency: A Deterministic Decision Model for Full-Train Logistics Readiness
Daniel Chelopo, GIBB Mining and Power, Johannesburg, South Africa.

Human Factors and Ergonomics Competition

ID 122 Factors Influencing Employee Performance Outcomes of a Specific Fast-Food Franchise in Quezon City, Philippines
Janfel S. Bingayan, Ram Justin P. Musni, Xandee Yvana V. Nicolas and Kyla Isabelle R. Ramos, Students, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines.
Engr. Ninna S. Ocampo, MBA, PIE, Chairperson, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines.

ID 124 Is Bigger Safer? Organizational Scale and Recorded Occupational Injury and Illness Rates Across High-Incidence U.S. Industries
Fahad Aljadaan, Ministry of Electricity & Water & Renewable Energy, Kuwait.

Artificial Intelligence and Data Science

ID 26 Management Intervention Strategies for Enhancing Artificial Intelligence Adoption among South African SMMEs: A Conceptual Framework
Refilwe Sophy Matlakala, Department of Quality & Operations Management, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa.
Daramy Vandi Von Kallon, Department of Mechanical and Industrial Engineering Technology, University of Johannesburg, Johannesburg, South Africa.

ID 55 Agentic AI-Based Dynamic Supply Network Intelligence
Divanshu Sharma, Centre for Advanced Modelling and Geospatial Information Systems, University of Technology Sydney (UTS), Ultimo, New South Wales, Australia.
Nagesh Shukla, Professor, Griffith Business School, Griffith University, Brisbane South (Nathan) Campus, Queensland.
Sanjoy Paul, Associate Professor, UTS Business School, University of Technology Sydney (UTS), Ultimo, New South Wales, Australia.
Biswajeet Pradhan, Dist. Professor, Centre for Advanced Modelling and Geospatial Information Systems, University of Technology Sydney (UTS), Ultimo, New South Wales, Australia.

ID 72 Determining the Factors of ChatGPT Usage That Affect College Students' Perceived Critical Thinking in the National Capital Region
Maxine Rose Gonzales, University of Santo Tomas, Philippines.

ID 153 A Transformer-Based Decision Intelligence Framework for Explainable Forecasting and Sequential Resource Optimisation: A Retail Case Study
Lakshiya Surineni, Student, Monash University.
Dr. Badi Alekhya, Associate Professor, Artificial Intelligence and Machine Learning, R.M.D. Engineering College.
C.S. Anita, Professor and Head, Department of Artificial Intelligence and Machine Learning, R.M.D. Engineering College.

Lakshman Thirumalai, Student, RMIT University.
Hrithik Kumaran Kadirvel Gayathiri Devi, Student, Monash University.

Automation, Robotics and Autonomous Systems

ID 107 Directional Analog Prototypes for Two-Dimensional IIR Filter Design Using Pascal Matrix Equation
Phuoc Si Nguyen, PhD Candidate, College of Science, Health, and Engineering, Victoria University (VU), Melbourne, Victoria, Australia.
Horace King, Senior Lecturer, College of Science, Health, and Engineering, Victoria University (VU), Melbourne, Victoria, Australia.

ID 117 A Two Circle Geometric Framework: From 1 D Digital Low Pass Poles to a 2 D Rotational Mapping
Phuoc Si Nguyen, PhD Candidate, College of Sport, Health and Engineering, Victoria University (VU), Melbourne, Victoria, Australia.
Horace King, Senior Lecturer, College of Science, Health, and Engineering, Victoria University (VU), Melbourne, Victoria, Australia.

ID 65 Applying Industrial Engineering (IE) Practices and Techniques to the Circular Economy (CE)
David Karr (CP Eng, FIIEA), Immediate Past Federal President, Industrial Engineers Australia (IEA), Perth, Western Australia.

November 25, 2025 (Wednesday)

9:00 – 11:00 am, Wednesday, November 25 **Onsite Room 1**

Plenary: Industry 4.0 and Digital Transformation

Session Chair and Speaker I:
Dr Ethan Nikookar
Deputy Discipline Leader, Supply Chain & Analytics; and Deputy Director, Centre for Supply Chain Research
University of Wollongong, School of Business, Wollongong, Australia

Speaker II:

Speaker III:
Dr. Matthew Pepper
Professor
School of Management, Operations and Marketing
University of Wollongong (UOW), New South Wales, Australia.
Editorial Advisory Boards for the International Journal of Lean Six Sigma, the Journal of Manufacturing Technology Management. and International Journal of Information and Operations Management Education.

9:00 – 11:00 am, Wednesday, November 25 **Onsite Room 2**

Human Factors, Ergonomics and Healthcare Systems

Session Chair: Winda Nur Cahyo, PhD, Associate Professor, Faculty of Industrial Technology, Universitas Islam Indonesia (UII) Sleman, Yogyakarta, Indonesia

ID 13 An Interpretable Rule-Based Approach for Video-Based Lifting Risk Assessment Using RNLE
Kung-Jeng Wang, Department of Industrial Management, and Artificial Intelligence for Operations Management Research Center, National Taiwan University of Science and Technology, Taipei 108, Taiwan, ROC.
Kim-Tien Truong, Department of Industrial Management, National Taiwan University of Science and Technology, Taipei 108, Taiwan, ROC.

ID 21 Evaluating Textual And Visual Artificial Intelligence Responses For Sanitization Scheduling
Mirco Lecce, Gaia Falchi and Vittorio Cesarotti, Department of Enterprise Engineering "Mario Lucertini", University of Rome "Tor Vergata", Rome, Italy.

ID 56 Impact of Vaccine Misinformation on Measles Re-emergence: A Behavioral-Epidemiological System Dynamics Model
Ciara Catherine Gache and Jayne Lois San Juan, Department of Industrial and Systems Engineering, De La Salle University (DLSU), Manila, Philippines.

ID 71 Work-Related Musculoskeletal Disorders Among Construction Workers
Abdulelah Ali, Department of Industrial Engineering, Jazan University, Jazan, Saudi Arabia.

ID 114 Financial Risk Mitigation Measures and Barriers to Risk Management in Commercial Mortgage Financed Housing Projects in Kaduna Nigeria
Ajalah M. Yahaya, Department of Construction Management and Quantity Surveying, Durban University of Technology, Durban, South Africa.
Iruka C. Anugwo, Department of Construction Management and Quantity Surveying, Durban University of Technology, Durban, South Africa.
Abdulganiyu Bello.

ID 115 Perceived Effects of Health Insurance Coverage on Construction Industry Performance and Strategies for Improving Access in Lafia Metropolis Nigeria
Ajalah M. Yahaya, Department of Construction Management and Quantity Surveying, Durban University of Technology, Durban, South Africa.
Iruka C. Anugwo, Department of Construction Management and Quantity Surveying, Durban University of Technology, Durban, South Africa.

ID 123 A Study on Staffing for Emergency Call Centers Based on Queueing Analysis
Lingxuan Tang, Southern University of Science and Technology, China.

ID 168 Improving Part Identification through Visual Search-Oriented Label Design in a Raw Material Warehouse
Ibrahim Abdul Wafa, Patrick Alesander Tambunan, Nanda Hafizhah Ayuzahra, Fathimah Nabila Anantha, Thomy Mumtaz Kasophan, Purnawan Adi Wicaksono, Ary Arvianto and Wiwik Budiawan*, School of Industrial Engineering, Diponegoro University, Semarang, Central Java, Indonesia.

ID 175 Reading Gravity in the Warehouse: Visual Hierarchy-Based Redesign of FIFO Labels Evaluated through Visual Search Testing
Ary Arvianto, Alfian Roja Sulthon Fatah, Singgih Saptadi, Purnawan Adi Wicaksono and Wiwik Budiawan, Department of Industrial Engineering, Faculty of Engineering, Diponegoro University, Semarang, Indonesia.

11:00 – 1:00 pm, Wednesday, November 25 **Onsite Room 1**

Keynotes

Moderator: Dr Matthew Pepper, Professor, School of Business, Faculty of Business and Law, University of Wollongong NSW 2522 Australia

11:10 – 11:50 am: Keynote III: Amanda MacKinnell MBA MAIPM, Industry Capability Development – Strategy & Studies, Head Industry Engagement & Global Supply Chain, L3Harris Technologies, Canberra, Australian Capital Territory, Australia

11:50 – 12:30 pm: Keynote IV: Dr Adrian Tootell, Extensive Industry Experience in Product Research, Integrated Operations, Process Manufacturing and Key Customer Engagement, Australia

12:30 – 1:10 pm: Keynote V: Dr Azharul Karim, Professor, Mechanical Engineering, Director: Advanced Drying and Sustainable Energy Research (ADSER), Associate Editor: Drying Technology Journal Faculty of Engineering, Queensland University of Technology, Brisbane, Australia

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1:10 – 2:00 pm, Wednesday, November 25 **Onsite Room 1**

Lunch break

2:00 – 4:00 pm, Wednesday, November 25 **UoW**

Lab/site visit
Sustainable Buildings Research Centre, UOW

2:00 – 4:00 pm, Wednesday, November 25 **Virtual Room**

Business Management and Operations Management / Engineering Management and Project Management / Energy

Session Chair: Dr. Nazrul Islam, IEOM Society International, Canada

ID 14 Port User's Perspective on the Dry Port System, Intermodality, and Synchromodality in Bangladesh
Razon Chandra Saha, Academic Ambassador, Malaysia University of Science and Technology, Kota Damansara 47810, Petaling Jaya, Selangor, Malaysia.

ID 109 Measures to Improve the Adoption of Digital Mentorship in the South African Construction Industry
Thaga Samuel Moretsele, Student, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg.
Morena William Nkomo, Senior Lecturer, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg.
Letsau Maphutha and Sidumisile Siziba, Students, Department of Construction Management and Quantity Surveying, Faculty of Engineering and the Built Environment, University of Johannesburg.

ID 162 Implementation of an Improvement model using lean tools to increase productivity in a textile MSE
Andy Bryan Acosta Guevara, University of Lima (Ulima), Lima, Lima, Perú.
Luis Armando Del Pino Valenzuela, University of Lima (Ulima), Lima, Lima, Perú.

ID 178 Determinants of Technology Transfer in the Drone Industry under Local Content Policy: A Bibliometric Analysis and Systematic Literature Review toward a Conceptual Framework
Nida An Khofiyah, Doctoral Student Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia.
Wahyudi Sutopo and Fakhrina Fahma, The Industrial Engineering and Techno-Economics Group Research (GR RITE), Department of Industrial Engineering, Universitas Sebelas Maret.

ID 188 Hybrid Solar–Wind Energy Systems for Rooftop Applications
Sanchit Gupta, Shiva Abdoli, Robert Taylor, School of Mechanical and Manufacturing Engineering, UNSW Sydney, Australia

ID 196 An Assessment of Social Facilitation Challenges and Their Impact on Construction Project Delivery
S Mhlongo, T Khafiso, M Maake, Department of Construction Management, Faculty of Engineering and Built Environment Durban University of Technology, South Africa

ID 197 Assessment of the strategies that mitigate cost overruns in construction projects: A case study in the Free State
Thabo Khafiso and Scelo Mhlongo, Department of Construction Management and Quantity Surveying, Faculty of Engineering and Built Environment, Durban University of Technology, KwaZulu-Natal, South Africa.
Sizolwakhe Mtetwa, Department of Building Sciences, Faculty of Engineering and Built Environment, Tshwane University of Technology, Pretoria

ID 198 Challenges in Implementing Cost Control Practices in Small-Scale Construction Projects
Thabo Khafiso, Department of Construction Management and Quantity Surveying, Faculty of Engineering and Built Environment, Durban University of Technology, KwaZulu-Natal, South Africa.
Scelo Mhlongo, Department of Construction Management and Quantity Surveying, Faculty of Engineering and Built Environment, Durban University of Technology, KwaZulu-Natal, South Africa.
Sizolwakhe Mtetwa, Department of Building Sciences, Faculty of Engineering and Built Environment, Tshwane University of Technology, Pretoria.

4:00 – 6:00 pm, Wednesday, November 25 **Onsite Room 1**

Simulation, Optimization and Productivity Improvement

Session Chair: Mohan Ganavarapu (CPEng, MIIEA), Federal President, Industrial Engineers Australia (IEA), Australia

ID 157 How Accurately Do Large Language Models Extract Supply Networks from Text? A Controlled Benchmark
Chandimal Adikari, University of Wollongong, Australia.
Attila Mozer, University of Wollongong, Australia**.**

ID 28 Rolling Horizon Planning for Dynamic Home Healthcare Routing and Scheduling
Wipawee Tharmmaphornphilas and Netnawee Um-in, Department of Industrial Engineering, Chulalongkorn University, Bangkok, Thailand.
Peerapon Siripongwutikorn, Department of Computer Engineering, King Mongkut's University of Technology Thonburi, Bangkok, Thailand.

ID 29 A Functional Taxonomy of Machine Learning and Deep Learning Applications in Construction Productivity Monitoring: A Systematic Review
Muhammad Adil Gondal, School of Architecture, Building and Civil Engineering, Loughborough University, Epinal Way, Loughborough LE11 3TU, UK.
Dr Kudirat Ayinla, Lecturer in Construction Management, School of Architecture, Building and Civil Engineering, Loughborough University, Epinal Way, Loughborough LE11 3TU, UK.
Professor Craig Hancock, Professor of Geospatial Engineering, School of Architecture, Building and Civil Engineering, Loughborough University, Epinal Way, Loughborough LE11 3TU, UK.

ID 57 Demand Shifting and Revenue Optimization through Variable Pricing at a Leisure Facility
Taiki Watanabe, Graduate School of Engineering, Kanagawa University, 3-27-1 Rokkakubashi, Kanagawa-ku, Yokohama, Japan.
Kimitoshi Sato, Faculty of Business Administration, Nanzan University, 18 Yamazato-cho, Showa-ku, Nagoya, Japan.
Nobuaki Ishii, Faculty of Engineering, Kanagawa University, 3-27-1 Rokkakubashi, Kanagawa-ku, Yokohama, Japan.
Shuhei Ota, Faculty of Engineering, Kanagawa University, 3-27-1 Rokkakubashi, Kanagawa-ku, Yokohama, Japan.

ID 118 Simulation Applications for Maintenance Strategy in Power System Assets: A Systematic Literature Review
Reem Mejdal Alqahtani, Department of Industrial Engineering, King Saud University (KSU), Riyadh, Saudi Arabia.
Mohammed Alkahtani, Professor, Department of Industrial Engineering, King Saud University (KSU), Riyadh, Saudi Arabia.

4:40 – 6:00 pm, Wednesday, November 25 **Onsite Room 2**

Supply Chain and Logistics

Session Chair: Dr Ahmed A. Bakhsh, Professor, Department of Industrial Engineering, King Abdulaziz University, Jeddah 21589, Saudi Arabia.

ID 19 Reframing Blockchain-Enabled Traceability Agri-Food Supply Chains: A Socio-Technical Perspective
Imran Ali, Central Queensland University, Australia.
Renata Klafke, Central Queensland University, Australia.

ID 27 The Role of Stakeholder Readiness and Collaboration in Decarbonising Australian Dairy Supply Chain
Dilini Manage, Wenming Shi and Stephen Cahoon, Australian Maritime College, Science and Engineering, University of Tasmania (UTAS), Launceston, Tasmania, Australia.

ID 33 Green Supplier Selection and Order Assignment: A Combinatorial Auction Framework
Chefi Triki, Kent Business School, University of Kent, Canterbury, UK.
Sadeque Hamdan, Bangor Business School, Bangor University, Bangor, UK.
Simona Mancini, Department of Engineering, University of Palermo, Palermo, Italy.

ID 149/201 Discrete-Event Simulation and Scenario Analysis for Blood Supply Chain Operational Improvement
Harinni Arunachalam Rajendran, Student, RMIT University, Melbourne, Victoria, Australia.
Seyed Mojib Zahraee, Department of Mechanical, Manufacturing, and Mechatronic Engineering, School of Engineering, RMIT University, Melbourne, Victoria, Australia.
Nirajan Shiwakoti, Department of Mechanical, Manufacturing, and Mechatronic Engineering, School of Engineering, RMIT University, Melbourne, Victoria, Australia.

ID 167 Game-Theoretic Comparison of Traditional and Digital Sustainable Supply Chain for Phulkari Craft in India.
Amandeep Singh Grover*, Professor and Director, Department of Fashion Management, National Institute of Fashion Technology, Panchkula, India.

ID 181 AI Readiness and Supply Chain Performance in UAE Manufacturing SMEs: A Conceptual Model
Maqsood Memon, Associate Professor, College of Business, Zayed University, Abu Dhabi, United Arab Emirates.
Muhammad Saad Memon, Lecturer in Supply Chain Management and Artificial Intelligence, Department of Computing, Atlantic Technological University, Ireland.
Unggul Purwohedi, Associate Professor, Department of Accounting, Faculty of Economics and Business, Universitas Negeri Jakarta, Indonesia.

ID 156 Modelling Rigour in Large Language Model-Based Supply Chain Simulation: A Scoping Review of Reported Practice
Chandimal Adikari, University of Wollongong, Australia.
Attila Mozer, University of Wollongong, Australia.

4:00 – 6:00 pm, Wednesday, November 25 **Virtual Room**

Entrepreneurship and Innovation / Lean Six Sigma and Operations Excellence/ Automation/ SCL

Session Chair: Dr Ferry Jie, Associate Professor, School of Business and Law, Edith Cowan University, Western Australia, Australia
Co-chair: Aqib Islam, IEOM Society International, Bangladesh

ID 25 Strategic Responses to Short-Form Media Distraction

Ahmed A. Bakhsh, Professor, Department of Industrial Engineering, King Abdulaziz University, Jeddah 21589, Saudi Arabia.

ID 67 Transforming Transport Enterprises for Sustainability: A Conceptual Framework from Business and Technology Perspectives
Carol Dineo Diale-Makgetla, PhD, Industrial and Organisational Psychology, College of Economic and Management Sciences, University of South Africa, Tshwane, South Africa.
Betty Portia Maphala, PhD, Industrial and Organisational Psychology, College of Economic and Management Sciences, University of South Africa, Tshwane, South Africa.

ID 106 Application of Lean Manufacturing for Production Process Improvement: A Case Study of a PHEV Battery Assembly Plant
Chacrit Noppha and Paphakorn Pitayachaval, Systems Engineering Program, Institute of Engineering, Suranaree University of Technology, Nakhon-Ratchasima, Thailand.

ID 195 The Impact of Automated Tendering Systems on Administrative Workload and Resource Utilisation in Construction Procurement
S Mhlongo, T Khafiso, Department of Construction Management, Faculty of Engineering and Built Environment Durban University of Technology, South Africa

ID 200 Assessment of the challenges affecting the implementation of e- procurement in the Public Sector Department for construction projects
Thabo Khafiso, Department of Construction Management and Quantity Surveying, Faculty of Engineering and Built Environment, Durban University of Technology, KwaZulu-Natal, South Africa.
Scelo Mhlongo, Department of Construction Management and Quantity Surveying, Faculty of Engineering and Built Environment, Durban University of Technology, KwaZulu-Natal, South Africa.
Sizolwakhe Mtetwa, Department of Building Sciences, Faculty of Engineering and Built Environment, Tshwane University of Technology, Pretoria.

ID 202 Improving Service Quality at a Vehicle Inspection Centre through Lean Six Sigma: A Simulation-Based Study of Customer Turnaround Time
Mohammed Al Awadh, Department of Industrial Engineering, King Khalid University, P.O. Box 394, Abha, 61421, Saudi Arabia

November 26, 2025 (Thursday)

9:00 – 11:00 am, Thursday, November 26 **Onsite Room 1**

Plenary: Global Business Management

Chair and Speaker I:
Dr Samadi Madiwala
Sessional Lecturer
College of Arts, Business, Law, Education and IT
Victoria University, Melbourne, Australia

Speaker II:
Dr Turlough Guerin
Honorary (Fellow), Department of Infrastructure Engineering
Faculty of Engineering and Information Technology, The University of Melbourne, Australia

Speaker III:
Dr George Panas
Enterprise Fellow, Management and Marketing, University of Melbourne, Melbourne, Australia

ID 31 Proposal of Project Model Aimed at Value Creation Incorporating Learning-Goal Orientation
Akihiro Sakaedani, Visiting Associate Professor, School of Business, University of Wollongong (UOW), Wollongong, New South Wales, Australia, and Professor, School of Network and Information, Senshu University, Tokyo, Japan.

ID 32 The Role and Benefits of Architecture in Software Development Project Management
Akihiro Sakaedani, Visiting Associate Professor, School of Management, Operations and Marketing, University of Wollongong (UOW), Wollongong, New South Wales, Australia, and Professor, School of Network and Information, Senshu University, Tokyo, Japan.

ID 169 Human-Centric and Digitally-Enabled Industrial Engineering in the Industry 5.0 Era: A Construction Industry Perspective
Mohan Ganavarapu, Industrial Engineers Australia (IEA); MAS Adroit, Melbourne, Australia.

9:00 – 11:00 am, Thursday, November 26 **Onsite Room 2**

Panel: Supply Chain Analytics and Optimization

Session Chair and Speaker I:
Dr Spring Zhou
Associate Professor, School of Business
Faculty of Business and Law
University of Wollongong, Australia

Speaker II
Winda Nur Cahyo, PhD
Associate Professor
Faculty of Industrial Technology
Universitas Islam Indonesia (UII)
Sleman, Yogyakarta, Indonesia

ID 50 Trust Violation and Repair in Anthropomorphic AI Customer Service: The Role of the Uncanny Valley Effect
Chih-Chin Liang, I-Hsuan Lin* and Wan-Yun Lin, Graduate Institute of Business Administration, National Formosa University, Huwei, Yunlin, Taiwan.

46 The Silent Product Dilemma: Toward AI-Driven Decision Support for Sustainable New Product Launches
Chih-Chin Liang and Nguyen Xuan Tan, Department of Business Administration, College of Management, National Formosa University (NFU), Yunlin, Taiwan.

51 The Effects of Multimodal Artificial Intelligence Advertising on Consumer Emotions and Decision-Making: Evidence from PLS-SEM and fsQCA
Chih-Chin Liang, Yu-Chieh Chou*, and Cho Chang Hui, Department of Business Administration, National Formosa University (NFU), Yunlin, Taiwan.

11:00 – 1:00 pm, Thursday, November 26 **Onsite Room 1**

Keynotes

Moderator: Dr Dilupa Nakandala, Professor, Associate Dean of Graduate Studies, School of Business, Human Resources & Management, Western Sydney University, Sydney, Australia

11:20 – 12:00 pm: Keynote VI: Prof Arun Abraham Elias, Director, Goa Institute of Management, India
School of Management, Victoria University of Wellington, New Zealand (on leave)

12:00 – 12:40 pm: Keynote VII: Dr George Panas, Twenty Five years of Senior Management Experience in Industry, Enterprise Fellow & Director of Engagement, Department of Management and Marketing, University of Melbourne, Australia

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1:00 – 2:30 pm, Thursday, November 26 **Onsite Room 1**

Award luncheon and closing remarks

2:30 – 4:30 pm, Thursday, November 26 **Onsite Room 1**

Panel: Leadership, inclusion and the Future of Engineering Management

Session Chair and Speaker I:
Dr Dilupa Nakandala
Professor, Associate Dean of Graduate Studies
School of Business, Human Resources & Management
Western Sydney University, Sydney, Australia

Speaker II:
Rahima Khatun
Electrical Engineer at K1 Save Energy & Founder and CEO, Leading Women Australia and D RYMA Group
Melbourne, Australia

Speaker III
Dr. Renata Klafke
Lecturer in Management, School of Business and Law, Centre for Regional Economies and Supply Chains
Central Queensland University, Australia

2:30 – 4:30 pm, Thursday, November 26 **Onsite Room 2**

Workshop: Adaptive and Inclusive Teaching in Management Education: Leveraging Generative AI with Universal Design for Learning

Workshop Facilitators
Dr Arshia Kaul
School of Business and Law, Central Queensland University
Melbourne, Australia

Dr Imran Ali
School of Business and Law, Central Queensland University
Melbourne, Australia

Dr Aman Ullah
Faculty of Business and Economics
University of Melbourne, Melbourne, Australia

2:30 – 4:30 pm, Thursday, November 26 **Virtual Room**

Supply Chain and Logistics

Session Chair: Dr. Nazrul Islam, IEOM Society International, Canada

ID 47 A Preliminary Capacity Gap Index For Red Sea-Suez Gateway-Port Proxy Cases
Huan Hoang, Odette School of Business, University of Windsor, Windsor, Ontario, Canada.

ID 68 Multi-Objective Fuzzy Vehicle Routing Problem for Green Distribution with Uncertain Parameters
Hoang Kim Ngoc, Jirachai Buddhakulsomsiri, Pham Duc Tai, Thanapat Leelertkij and Siwaporn Kunnapapdeelert, School of Manufacturing Systems and Mechanical Engineering, Sirindhorn International Institute of Technology (SIIT), Thammasat University, Pathum Thani, Thailand.

ID 108 AI Adoption Maturity and Operational Performance in UAE Logistics: Evidence Across Demand Forecasting, Inventory Management and Route Optimisation
Sumaya Shakubar Shathik, Middlesex University Dubai, Dubai, United Arab Emirates.

ID 121 Analysis of Conditions and Characteristics of Coal Supply Chain in South Sumatra
Wardatul Jamilah, Erika Buchari* and Melawaty Aguestien, Doctoral Program, Faculty of Engineering, Universitas Sriwijaya, Palembang, Indonesia.
Indrayani, Department of Civil Engineering, Sriwijaya State Polytechnic, Palembang, Indonesia.

ID 150 Determining an effective revitalisation strategy for the South African rail network
Jurie-Kemp van der Watt, University of Pretoria, South Africa.
Wilna Bean, University of Pretoria, South Africa.

ID 152 Scale Economies in Saudi Arabia's Logistics Corridors: Capacity, Cost, and the Limits of Buying Advantage
Dr. Jameel Z. Kutbi, Assistant Professor of Supply Chain Management, Supply Chain Management Department, College of Business, University of Jeddah.
Eng. Ahmed F. Reda, Lecturer of Industrial Engineering, Industrial Engineering Department, College of Engineering, King Abdulaziz University.

ID 154 Agentic AI and Autonomous Multi-Agent Systems Applied to Supply Chain Resilience and Dynamic Replenishment: A Systematic Literature Review
Leonardo Xavier Lopes, PhD Candidate, Department of Business Administration, School of Economics, Business Administration and Accounting of the University of São Paulo (FEA-USP), São Paulo, Brazil.

ID 155 Mathematical Modeling for Shipment Consolidation Problem: A Case Study of Automotive Supply Chain in Thailand

Aung Thwin Htet, Jirachai Buddhakulsomsiri, Siwaporn Kunnapapdeelert, Thanapat Leelertkij and Pham Duc Tai, School of Manufacturing Systems and Mechanical Engineering, Sirindhorn International Institute of Technology, Thammasat University, Pathum Thani, Thailand.

ID 194 Agentic AI and Autonomous Multi-Agent Systems Applied to Supply Chain Resilience and Dynamic Replenishment: A Systematic Literature Review
Leonardo Xavier Lopes, PhD Candidate, Department of Business Administration
School of Economics, Business Administration and Accounting of the University of São Paulo (FEA-USP), São Paulo, Brazil

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4:30 – 5:30 pm, Thursday, November 26 **Onsite Room 1**

Business Management and Operations Management

Session Chair:
TBA

4:30 – 5:30 pm, Thursday, November 26 **Virtual Room**

Sustainability, Green Systems and Energy / Simulation, Optimization and Productivity Improvement

Session Chair: Aqib Islam, IEOM Society International, Bangladesh

ID 101 Do Machine Learning Baselines Improve Industrial Demand Response Measurement? Evidence from Half-Hourly Nodal Data and New Zealand's 2024 Electricity Shortage
Syed Salman Saeed and Syed Ahmed Shibly, Department of Mechanical Engineering, Bangladesh University of Engineering & Technology, Dhaka, Bangladesh.
Mohammad Najmul Hoq, Department of Industrial and Production Engineering, Shahjalal University of Science and Technology, Sylhet, Bangladesh.
Shadman Alvy Khan, Department of Electrical and Electronic Engineering, Islamic University of Technology, Gazipur, Bangladesh.
Md. Ridwan Hossain, Department of Industrial & Production Engineering, Bangladesh University of Engineering & Technology, Dhaka, Bangladesh.

ID 161 Rice Husk Gasification as a Substitute for Irrigation Diesel After a Loss of Fuel Imports: A Monte Carlo Energy Balance for Bangladesh
Syed Salman Saeed, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh.
Raihana-Tul-Zannat, Department of Agricultural Economics, Bangabandhu Sheikh Mujibur Rahman Agricultural University (BSMRAU), Gazipur, Bangladesh.
Bishwajit Saha, Department of Mechanical Engineering, Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh.

ID 158 OEE Improvement through the Implementation of SMED and TPM in a Cardboard Box Manufacturing Company
Alejandro Tadeo Remy Arbaiza, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Peru 15023.
Josefina Vera Subiate, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Peru 15023.
Rafael Chavez-Ugaz, Associate Professor, Carrera de Ingeniería Industrial, Universidad de Lima.
Marcos Fernando Ruiz-Ruiz, Associate Professor, Carrera de Ingeniería Industrial, Universidad de Lima.

ID 190 Measuring the Operational Resilience of National Grids to Supply Shocks: A Data-Driven Event Analysis
Shahriar Hasan Ratul, Lecturer, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology (KUET), Khulna-9203, Bangladesh
Md. Rafiquzzaman, Ph.D., Professor, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna-9203, Bangladesh
Niamat Ullah Ibne Hossain, Ph.D., Assistant Professor, Department of Industrial, Manufacturing and Systems Engineering, The University of Texas at El Paso, 500 W. University Ave., El Paso, TX 79968, USA

ID 192 Analyzing the Resilience of Railway Transportation Network Under Spatial Disruptions
Md. Tanjid Hossen Irfan, Khulna University of Engineering & Technology, Khulna, Bangladesh

ID 199 An Assessment of Client-Related Factors Affecting Sustainable Construction Practices in the Construction Industry: A Case In Bloemfontein
Thabo Khafiso, Department of Construction Management & Quantity Surveying, Faculty of Engineering and the Built Environment, Durban University of Technology, KwaZulu-Natal, South Africa.
Sizolwakhe Mtetwa, Department of Building Sciences, Faculty of Engineering and the Built Environment, Tshwane University of Technology, Pretoria, South Africa.
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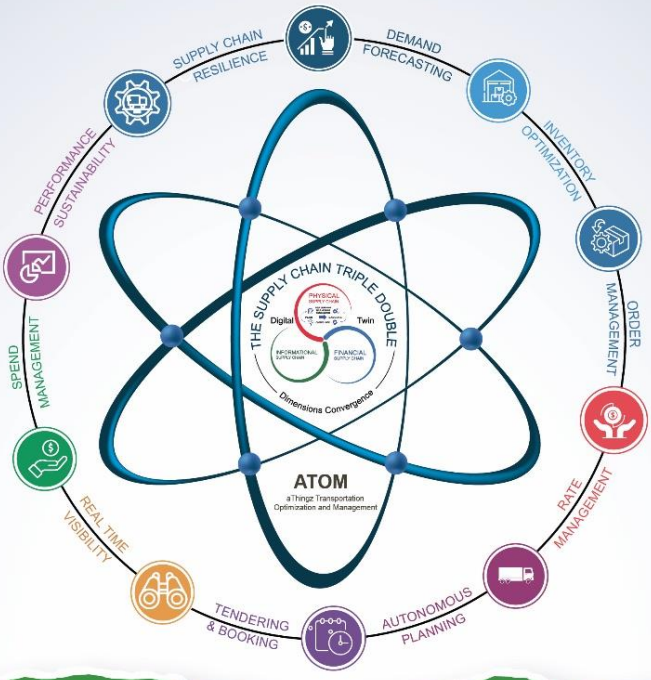
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