



IEOM Society

"Achieving and Sustaining Operational Excellence"

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2025 IEOM Awards – 4th Australian Conference on Industrial Engineering and Operations Management

Melbourne, Australia, November 25-27, 2025

Outstanding Professor Award

Dr Daniel Prior FAMI CPM SFHEA MILT
Associate Professor
Director, Supply Chain Sustainment Research Group
University of NSW Canberra, Australia

Outstanding Professor Award

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

Distinguished Professor Award

Prof Dr Sally Male
Director, Teaching and Learning Lab (TII)
Faculty of Engineering and Information Technology
The University of Melbourne, Australia

Distinguished Industry Leadership Award

Daniel Kulawiec
Executive, Design and Construct
InfraCo, Telstra Group
Melbourne, Australia

Outstanding Professor Award

Tetsuo YAMADA, Dr. Eng.
Professor
Program Chair of Management Science and Social Informatics
Director of Laboratory for Environment-Conscious Life Cycle Design with Products Information
Department of Informatics
Graduate School of Informatics and Engineering
The University of Electro-Communications, Japan

Distinguished Educator Award in Supply Chain Management

Dr David Paynter
MBA Meng (Adv. Manuf. Tech) BE (Indust.) (Hons) GC (Learn & Teach)
UniMelb, Monash, Chisholm & Swinburne
Australia

Distinguished Professor in Low Carbon Technologies Award

Prof Lu Aye, PhD
Department of Infrastructure Engineering
University of Melbourne
Australia

Business Management Education Award

Dr Arshia Kaul
Associate Lecturer
Management and Marketing
University of Melbourne
Melbourne, Australia

Teaching (Management) Award

Dr Aman Ullah
Lecturer in Management and Marketing
University of Melbourne, Melbourne, Australia

Business Management Education Award

Dr Jesse Olsen
Senior Lecturer, Department of Management and Marketing
Faculty of Business and Economics
University of Melbourne, Australia

Outstanding Educator Award

Dr Michael “Maxx” Schmitz
Curriculum Designer, Faculty of Arts
University of Melbourne, Australia

Sustainability in Business Award

Ferry Jie, PhD, FCES, FCILT
Associate Professor
ECU, School of Business and Law
Edith Cowan University, Western Australia, Australia

Sustainability in Engineering Award

Dr Md Abdus Samad Kamal
Associate Professor
Graduate School of Science and Technology
Gunma University, Kiryu, Japan

Excellence in Women's Leadership (Engineering Education) Award

Dr Nilupa Herath
Lecturer, Department of Infrastructure Engineering
University of Melbourne, Australia

Excellence in Women's Leadership (Equity, Diversity, and Inclusion) Award

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

Excellence in Women's Leadership (Industry) Award

Dr Achini Peiris
Senior Consultant, Digital Enablement, Aurecon
Melbourne, Australia

AI and Data Analytics Award

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

Supply Chain Management Award

Dr Seyed Mojib Zahraee
Lecturer, Department of Mechanical, Manufacturing and Mechatronics Engineering
Industrial and System Engineering and Supply Chain Management Fields
RMIT School of Engineering
RMIT University, Melbourne, Australia

Distinguished Industrial Engineering Award

David Karr (CP Eng, Chris Heyde Awardee, FIIEA)
Federal Immediate Past President
Industrial Engineers Australia (IEA)
Perth, WA, Australia

Industrial Engineering Leadership Award

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

Global Manufacturing Award

Vikram Sachdeva
Director – Manufacturing Excellence and Transformation
Swinburne University of Technology, Melbourne, Australia

Outstanding Educator Award

Dr Felix Kin Peng Hui
Associate Professor, Program Director and Academic Coordinator, Master of Engineering Management
Program, Leader of the Sustainable Production Systems and Systems Engineering Group
Department of Infrastructure Engineering
University of Melbourne, Melbourne, Australia

Distinguished Professor Award

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

Outstanding Young Researcher Award

Raul Ionut Riti
Technical University of Cluj-Napoca
Cluj, Romania

Outstanding Student Award

Muhammad Farrel Mahran Arry
Master of Engineering Management
University of Melbourne
Melbourne, Australia

Outstanding Student Award

Daniel Evan Christopher
Master of Engineering Management
University of Melbourne, Melbourne, Australia

Outstanding Student Award

Utari
Master of Engineering Management
University of Melbourne, Melbourne, Australia

Outstanding Student Award

Nanjiba Eznee
RMIT University, Melbourne
Australia

Distinguished Conference Leadership Award

Dr Roberto Chavez Clavijo, Associate Professor, Department of Management and Marketing,
Swinburne Business School, Swinburne University of Technology, Victoria, Australia

Dr Sanjoy Paul, Associate Professor, UTS Business School, University of Technology Sydney (UTS), Sydney, Australia

Dr. Azizur Rahman, Senior Lecturer – Occupational Health And Safety/Ergonomics, School of Property Construction and Project Management, RMIT University, Australia

Dr Peter Shi, FCILT, Deputy Director (MCom) and Head of Supply Chain Management, Macquarie Business School, Macquarie University; Chair of the Chartered Institute of Logistics and Transport NSW Section, NSW, Australia

Dr Imran Ali, Senior Lecturer in Operations and Innovation Management, School of Business and Law , Central Queensland University, Australia

Competition Winners

Onsite

Simulation competitions

First Place

ID 165- A Discrete-Event Simulation Approach to Analyzing Congestion in a Fitness Facility

Christine Ray Givertz, John Patrick Esguerra, Alyana Jane Lapuz, Gabriel John De Leon, Department of Industrial Engineering, College of Engineering and Agro-Industrial Technology, University of the Philippines Los Baños, Philippines

LEAN six sigma competitions

First Place

ID 6: Driving Operational Excellence in Healthcare: The Second Wave of CI Improvement Projects at the University Medical City, Oman

Yousuf Al Khamisi, Chair, Continuous Improvement Committee, University Medical City, Oman

Virtual

Undergraduate Research Competition Sponsored by Daikin Applied

First Place

ID 153: Cloud-Enabled Model Predictive Control for Optimized Vehicle Platooning in Urban Transportation

Mahdyar Karimi, Ahmad Hasan, Md Abdus Samad Kamal and Kou Yamada, Intelligence Control program, Department of Science and Technology, Gunma University, Kiryu, Japan
A. S. M. Bakibillah, Department of Systems and Control Engineering, Institute of Science Tokyo, Tokyo, Japan

Second place

ID 59 AI-Driven Innovations in Healthcare: Enhancing Handwritten Digits Recognition

Sarah Aliouat, Computer Engineering Student, College of Engineering & IT, University of Dubai, Dubai, United Arab Emirates

Mhd Nazir Sagherji, Computer Engineering Student, College of Engineering & IT, University of Dubai, Dubai, United Arab Emirates

Maisam Wahbah, Assistant Professor, College of Engineering & IT, University of Dubai, Dubai, United Arab Emirates

Undergraduate Student Paper Competition sponsored by SIEMENS

First Place

ID 26 A Manufacturing Model to Enhance Productivity through Applying SLP, 5S, and TPM in a Textile SME

Yonny Alexander Flores-Castillo, Xiomara Gabriella Guerrero-Cenepo, Jorge Antonio Corzo-Chavez and Gino Viacava-Campos, Carrera de Ingeniería Industrial, Universidad de Lima, Perú

Master's Thesis Competition

First place

ID 33 Engineering Human Capital Retention Strategies in South African Energy Organisations.

ML Mafeffe, B Makhanya, JHC Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

Second place

ID 24 Reliability of the Electrical Multiple Unit trainset Maintenance in a Manufacturing Company

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

BBS Makhanya, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

JHC Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

High School STEM Competition

First place

ID 148 An Immunoinformatic Approach to a Protease-Resistant Epitope Design for a Giardiasis Vaccine

Evan Moloseni, Hilton College, Maritzburg, Kwazulu-Natal, South Africa

Artificial Intelligence and Machine Learning Competition

First Place

ID 73 Analysis of the Location of Emergency Ambulances in the City of Sorocaba-Brazil Using Generic Data Generation and Clustering Methods

Rodrigo Luiz Gigante, Industrial Engineering Department, Engineering School, Facens University Sorocaba-SP, Brasil

Aníbal Tavares de Azevedo, Faculty of Applied Sciences, University of Campinas (UNICAMP), Limeira-SP, Brasil

Takaaki Ohishi, Faculty of Electrical and Computer Engineering at the State University of Campinas. University of Campinas (UNICAMP), Campinas-SP, Brasil

Lean Six Sigma Competition Sponsored by Tooling Tech Group

First Place

ID 30 Application of Business Process Management (BPM) and Lean Six Sigma (LSS) to Improve Productivity in Customer Service in the Insurtech sector: A Case Study

Mateo Ortega-Escajadillo, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú

Franco Arturo Ortiz-Huasasquiche, Carrera de Ingeniería Industrial, Universidad de Lima, Perú

Jorge Antonio Corzo-Chavez, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú

Gino Viacava-Campos, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Perú

Poster Competition

First Place

ID 254: Feasibility Analysis of Villa Infrastructure Investment Considering Market Risk and Operational Risk in the Pecatu Area, Bali

I Putu Agus Krisnadinata, Master's Student, Postgraduate School of Megister Engineering Management, University of Warmadewa Denpasar, Bali, Indonesia

I Ketut Darma, Civil Engineering Study Program, Faculty of Engineering and Planning Warmadewa University, Denpasar, Bali, Indonesia

Dewa Ayu Nyoman Sriastuti, Civil Engineering Study Program, Faculty of Engineering and Planning, Warmadewa University, Denpasar, Bali, Indonesia

Best Track Papers

Track ID	Track name	Best Track Paper ID	Paper Title
1	Artificial Intelligence and Data Science	116	Development of a Database Management System for a Municipal Agriculture Office in the Philippines
2	Automation, Robotics and Autonomous Systems	7	Boosting Productivity and Sustainability through Human–Robot Collaboration in Industry 5.0: Practical Insights from Australian Aerospace and Mechanical Engineering
3	Business Management and Operations Management	107	Identifying the Determinant Factors of Customer Satisfaction in Automotive Technology Using the Kano Model Approach
4	Digital Manufacturing, Industry 4.0 and IoT	69	Assessing Impact of Environmental Enablers in Digital Readiness for Industry 4.0 in Healthcare: Using a hybrid PLS-SEM and ISM Method
5	Engineering Education and Curriculum Improvement	226/246	Mapping the Technical and Behavioral Competencies of Production Engineers in Industry 4.0: Evidence from Brazil and an International Perspective
6	Engineering Management and Project Management	176	Project Closeout: Essential but Neglected Practice in Construction Project Management
7	Entrepreneurship and Innovation	170	AI-Driven Support Frameworks for Deep-Tech Startups in University-Based Incubators
8	Facility Planning and Layout	136	Drivers of compartmentalization for fire safety in high-rise buildings

IEOM Society Awards – The 4th Australian IEOM Conference Sydney, Australia, November 25-27, 2025

9	Human Factors, Ergonomics and Healthcare Systems	70	Application of the WISN Method to Develop a Pharmacist Staffing Framework in a Private Hospital in Myanmar
10	Lean Six Sigma and Operations Excellence	218	The Use of Lean and Six Sigma on a Victorian Infrastructure (Construction) Project
11	Manufacturing, Assembly and Design	209	A Computational Framework for Integrating DfMA Principles in Timber-Framed Composite Wall Panel Design and Manufacturing
12	Quality, Reliability and Maintenance	60	Quality in the Age of Digitalization – How to Realize the Transformation
13	Simulation, Optimization and Productivity Improvement	208	Electric Bus Charger Scheduling with Peak Load and Battery Degradation Costs under Mixed-Mode Operation
14	Supply Chain and Logistics	111	Risk Simulation of Essential Goods Supply Chains Considering Equity under Panic Buying
15	Sustainability, Green Systems and Energy	222	Leveraging Peer-to-Peer Electricity Trading for Sustainable Infrastructure Development in Australia
16	Case Studies and Best Practices	137	Raising Project Delivery Reliability: An Integrated Baseline Validation Model for Industrial Engineering Using Design Science Research

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