

Welcome to the First IEOM Australia Conference

International Conference on Industrial Engineering and Operations Management

To All-Conference Attendees:

On behalf of the IEOM Society International, we would like to welcome you to the First Australian **International Conference on Industrial Engineering and Operations Management**, December 20-22, 2022, to be held at Hilton Hotel Sydney. 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. There were more than 650 papers/abstracts submitted from 55 countries. After a thorough peer-review process, more than 400 have been accepted for presentation and publication. The program includes many cutting-edge topics in industrial engineering and operations management.

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

1. **Devdas Shetty** Ph.D, PE, Dean, School of Engineering and Applied Sciences, University of the District of Columbia, Washington, DC, USA
2. **Raimo P. Hämäläinen**, Systems Analysis Laboratory, Aalto University, Finland and Visiting Professor, School of Business and Economics, Loughborough University, UK
3. **Srinath Perera** PhD, Director, Centre for Smart Modern Construction c4SMC, Western Sydney University, Australia
4. **Morris Fan**, Dean, National Taipei University of Technology, Taipei, Vice President and Board Member, Asia Pacific Industrial Engineering and Management Systems Society, Taiwan.
5. **Frank Will**, Founder and CEO, Ino8 Pty Ltd, Victoria, Australia.
6. **Dr Gnana K Bharathy**, Artificial Intelligence and Research Data Specialist, Faculty of Engineering & Information Technology, University of Technology Sydney (UTS), Sydney, Australia
7. **Dr. Ir. Wahyudi Sutopo**, Professor, Industrial Engineering Department, Universitas Sebelas Maret (UNS), Indonesia
8. **Shams Rahman**, Professor of Supply Chain Management, School of Accounting, Information Systems and Supply Chain, RMIT University, Melbourne, Australia
9. **Dr. Mukhamad Najib**, Professor, Education Attaché, Indonesian Embassy in Canberra, Vice Dean, Faculty of Economics and Management, IPB University
10. **Dr. Mohammed Abdur Razzaque**, Professor, School of Business, University of New South Wales (UNSW), Australia
11. **Professor Dr. Abdul Talib Bon**, Department of Production and Operations Management, Universiti Tun Hussein Onn Malaysia, Malaysia

At this conference, the IEOM Society will hold its 35th Global Engineering Education session. It will feature distinguished speakers who will discuss workforce readiness and engineering education challenges and opportunities. The 34th IEOM Industry Solutions will showcase and feature major topics including IoT, AI, Data Analytics, iCloud, Cyber security, Automation, Digital Manufacturing, MSV, and industry best practices. The 14th IEOM Global Supply Chain and Logistics will address the global logistic challenges due to the pandemic. The 5th IEOM Global Business Management will focus on business operations improvement. Panel sessions have been planned: Global Engineering Education, Supply Chain, Women in Industry and Academia, Lean Six Sigma and Diversity & Inclusion sponsored by Ford Motor Company.

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

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



Dr. Sami Kara
Honorary Chair
Professor, School of Mechanical & Manufacturing Engineering
University of New South Wales



Dr. Hasan H. Turan, Conference Chair, Research Lead at Capability Systems Centre, University of New South Wales (UNSW Canberra), Australia



Professor Dr. Azharul Karim, Conference Co-chair, School of Mechanical, Medical & Process Engineering, Queensland University of Technology, Brisbane, Australia



Associate Prof. Dr. Matthew Pepper, Conference Co-chair, School of Business, Faculty of Business and Law, University of Wollongong NSW 2522 Australia



Dr. Md Mizanur Rahman, Conference Co-chair, Adjunct Professor, Imam Abdulrahman University, Director of IEOM Australia Operations



Prof. Dr. Ir. Wahyudi Sutopo, Conference Co-chair, Professor of Industrial Engineering Department, Universitas Sebelas Maret, Indonesia Director of IEOM Asia Pacific Operations



Dr. Ahad Ali, Conference Co-Chair, Associate Professor Director of IE Programs Lawrence Tech, Michigan, USA Executive Director, IEOM Society