

July 20, 2026

Proceedings of the International Conference on Industrial Engineering and Operations Management
ISSN / E-ISSN: 2169-8767
ISBN: 979-8-3507-1737-2

**9th European Conference on Industrial Engineering and Operations
Management
Barcelona, Catalonia, Spain, July 20-22, 2026**

Editor-in-Chief
Md Mizanur Rahman, Ph.D.
IEOM Society International

Editorial Board:

- Maram Al-Shammari, King Saud University, Riyadh, Saudi Arabia
- Dr. A.O. Adewumi, University of KwaZulu-Natal, South Africa
- Dr. Kondo H. Adjallah, Paul-Verlaine University, France
- Dr. Abdollah Aghaie, K.N. Toosi University of Technology, Iran
- Dr. Abdul-Rahman Al-Ali, American University of Sharjah, UAE
- Dr. Ali I. Al-Mosawi, Miskolc University, Hungary
- Dr. Basel Alsayyed, University of Alberta, Edmonton, Canada
- Dr. Kuchkarov Atamurat, Uzbekistan National University, Uzbekistan
- Dr. Faieza Abdul Aziz, Universiti Putra Malaysia, Selangor, Malaysia
- Dr. Amir Azizi, Universiti Malaysia Pahang, Malaysia
- Dr. Amine Belhadi, Cadi Ayyad University, Marrakech, Morocco
- Dr. Behnam Bahrami, Eastern Mediterranean University, Famagusta, Cyprus
- Dr. Abdelaziz Berrado, The Ecole Mohammadia d'Ingénieurs, Rabat, Morocco
- Dr. Mahdi Bashiri, Shahed University, Iran
- Dr. Vladimir Beresnev, Sobolev Institute of Mathematics, Russia
- Dr. Haider Ali Biswas, Khulna University, Bangladesh
- Dr. Miguel Sanz Bobi, Comillas Pontifical University, Spain
- Dr. Nejib Chouaibi, Polytechnic School of Tunisia, Tunisia
- Dr. Mohammad Ishak Desa, Universiti Teknologi Malaysia
- Dr. Omar Elmabrouk, Benghazi University, Libya
- Dr. Dinusha Gamage, University of Moratuwa, Sri Lanka
- Dr. Rodrigo Garrido, Universidad Adolfo Ibaez, Chile
- Dr. Vassilis Gerogiannis, Department of Project Management, Greece
- Dr. Jahara bint Ghani, UKM, Malaysia
- Dr. Ravi Gor, St. Kabir Institute of Professional Studies, Ahmedabad, India
- Dr. Kannan Govindan, University of Southern Denmark, Denmark
- Dr. Md. Mamun Habib, Universiti Utara Malaysia
- Dr. Ramy Harik, University of South Carolina, USA
- Dr. Maruf Hasan, University of New South Wales, Australia

- Dr. Ahmed Kadhim Hussein, Babylon University, Iraq
- Dr. Javad Khamisabadi, Islamic Azad University, Tehran, Iran
- Dr. Raja Kothandaraman, Alpha College of Engineering, Chennai, India
- Dr. Brigitte Jaumard, Concordia University, Canada
- Dr. Rashmi Jha, Gitarattan International Business School (GIBS), New Delhi, India
- Dr. Shahrul B. Kamaruddin, Universiti Sains Malaysia
- Dr. Francis Leung, City University of Hong Kong, China
- Dr. Boudouda Malik, University of Champagne-Ardenne, France
- Dr. Ilias Mamat, Quest International University Perak, Ipoh, Malaysia
- Dr. Fulufhelo Masithulela, University of South Africa
- Dr. Abderrahmane Mellak, University of Bumerdes, Algeria
- Dr. Ruchi Mishra, Institute of Management, Nirma Univ., Ahmedabad, India
- Dr. Vladimir Modrak, TUKE, Slovakia
- Dr. Norhamidi Muhamad, UKM, Malaysia
- Dr. Michael Mutingi, University of Botswana, Botswana
- Dr. Arun N. Nambiar, California State University – Fresno, USA
- Dr. Cecilia Nembou, Divine Word University, Papua New Guinea
- Dr. Sawat Pararach, Thammasat University, Thailand
- Dr. Eui H. Park, North Carolina A&T State University, USA
- Dr. Md. Mizanur Rahman, Universiti Malaysia Sabah (UMS), Kota Kinabalu, Sabah, Malaysia
- Dr. T. Ramayah, School of Management, Universiti Sains Malaysia
- Dr. Raja Zuraidah Raja Mohd Rasi, Universiti Tun Hussein Onn Malaysia
- Dr. Bhuvnesh Rajamony, University Malaysia Perlis (UniMAP), Malaysia
- Dr. Mohd Abdur Rashid, University Malaysia Perlis (UniMAP), Malaysia
- Dr. Syed Asif Raza, Qatar University, Qatar
- Dr. Nubia Milena Velasco Rodriguez, Universidad de Los Andes, Colombia
- Dr. P. Sanjeevikumar, Dublin Institute of Technology, Ireland
- Dr. Mahmood Shafiee, Cranfield University, Bedfordshire, United Kingdom
- Dr. Ahm Shamsuzzoha, University of Vaasa, Finland
- Dr. Abdussalam Shibani, Coventry University, UK
- Dr. Sarbjit Singh, National Institute of Technology, Jalandhar, Punjab, India
- Dr. Shahryar Sorooshian, University of Gothenburg, Sweden
- Dr. Jayakanth Srinivasan, MIT Sloan School of Management
- Dr. Gopalan Srinivasan, University of New Brunswick, Canada
- Dr. Zuraidah Sulaiman, Universiti Teknologi Malaysia
- Dr. Balan Sundarakani, University of Wollongong in Dubai, UAE
- Dr. Murat Caner Testik, Hacettepe University, Ankara, Turkey
- Dr. Theodore B. Trafalis, University of Oklahoma, USA
- Dr. Vladimir I. Tsurkov, Russian Academy of Sciences, Moscow, Russia
- Dr. Hui-Ming Wee, Chung Yuan Christian University, Taiwan
- Dr. Yong Yin, Yamagata University, Japan
- Dr. Norzaidahwati Zaidin, Universiti Teknologi Malaysia, Johor, Malaysia
- Dr. Suhaiza Hanim Zailani, University Malaya, Malaysia
- Dr. Linda L. Zhang, IESEG School of Management, Lille-Paris, France
- Dr. Ashwin Ittoo, HEC Liege, Liege, Belgium
- Dr. Petri Helo, University Vaasa, Vaasa, Finland
- Dr. Lionel Amodeo, University of Technology of Troyes, Troyes, France.
- Dr. Zied Hajej, University of Lorraine, Metz, France.
- Dr. Abraham Zhang, University of Glasgow, Glasgow, UK.
- Dr. Bingwen Yan, Cape Peninsula University of Technology, Cape Town, South Africa.

- Dr. Laoucine Kerbach, Hamad Bin Khalifa University, Doha, Qatar.
- Dr. Yue Wang, Education University of Hong Kong, Hong Kong, China.
- Dr. Zhe Yuan, De Vinci Higher Education, De Vinci Research Center, Paris, France
- Dr. Michel Aldanondo, Ecole des Mine d'Albi, France
- Dr. Armand Baboli, INSA Lyon, France
- Philipp Baumann, University of Bern, Switzerland
- Cedrick Beler, Institut National Polytechnique de Toulouse – Ecole Nationale d'Ingénieurs de Tarbes, France
- Eric Bonjour, ENSGSI – University of Lorraine, France
- Robert Boute, KU Leuven, Belgium
- Xavier Brusset, SKEMA Business School, France
- Kah Hin Chai, National University of Singapore, Singapore
- Aurélie Charles, University of Lyon France, France
- Christine Di Martinelly, IESEG School of Management, France
- Laurent Geneste, Institut National Polytechnique de Toulouse – Ecole Nationale d'Ingénieurs de Tarbes, France
- Ali Gharbi, ETS Montreal, Canada
- Bernard Grabot, Institut National Polytechnique de Toulouse – Ecole Nationale d'Ingénieurs de Tarbes, France
- Elise Gruhier, University of Bordeaux France, France
- Vastag Gyula, Széchenyi István University, Hungary
- Khaled Hadj Hammou, Institut National des Sciences Appliquées de Lyon, France
- Ramzi Hammami, ESC Rennes School of Business, France
- Alaa Hassan, University of Lorraine, France
- Petri Helo, University of Vaasa, Finland
- Lazhar Homri , Arts et Métiers ParisTech, France
- Lars Hvam, Technical University of Denmark, Denmark
- Emmanuel Hyon, Sorbonne Université – LIP6, France
- Peter Jacobsen, Technical University of Denmark, Denmark
- Daouda Kamissoko, IMT Mines Albi, France
- Laoucine Kerbach, HEC Paris, France
- Nathalie Klement, Arts et Métiers ParisTech, France
- Elmar Kutsch, Cranfield University, UK
- Samir Lamouri, ENSAM Arts et Métiers ParisTech, France
- Carman Lee, Hong Kong Polytechnic University, Hong Kong
- Danping Lin, Shanghai Maritime University, China
- Chrity Yaqiong Lv , Wuhan University of Technology, China
- Lahcen Mifdal, Universiapolis Agadir, Morocco
- Mehrdad Mohammadi, IMT Atlantique, France
- Banu Ozkeser, KOLUMAN Industry Automotive, Turkey
- Maurice Pillet, Université de Savoie Mont Blanc, France
- Nidhal Regz, University of Lorraine, France
- Turki Sadok, University of Lorraine, France
- Samuel Bassetto, Ecole Polytechnique, Canada
- Jérémie Schutz, University of Lorraine, France
- Sara Shafiee, Technical University of Denmark, Denmark
- Dellagi Sofiene, University of Lorraine, France
- Elyn Solano Charris, Universidad de La Sabana, Columbia
- Ayeley Tchangan, Ecole Nationale d'Ingénieurs de Tarbes, France
- Norbert Trautmann, University of Bern, Switzerland
- Jiri Tupa, University of West Bohemia, Czech Republic

- Yazgı Tütüncü, Izmir University of Economics, Turkey
- Eric Villeneuve, Ecole Supérieure des Technologies Industrielles Avancées, France
- Junqiang WANG, Northwestern Polytechnic University, China
- Yue Wang, Hang Seng Management College, Hong Kong
- Yong Wu, Griffith University, Australia
- Esma Yahia, Arts et Métiers ParisTech, France
- Marc Zolghadri, Ecole des Ingénieurs en Mécanique de Paris, France

International Conference of Industrial Engineering and Operations Management (ICIEOM) aims to publish quality research work in the field of industrial engineering and operations management (IEOM) for academics, researchers and practitioners to advance the theory and practice as well as to identify major trends in industrial engineering and operations management. The journal is expected to advance the theory and practice through publishing research-oriented papers with a wide variety of problems related to real-life applications and research which affect global levels.

ICIEOM covers academic research and industrial issues/applications related on fundamentals of industrial engineering, operations management, business management, operations, design, manufacturing, supply chain management, logistics, systems and service engineering, innovation, entrepreneurship, reliability, quality, lean, six sigma, modeling, simulation, optimization, sustainability, machine learning, and artificial intelligence. The application areas include manufacturing, healthcare, energy, transportation, financial, and business operations. Articles must have scientific research contribution with state-of-the-art review.

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

Open access proceedings are available online at

<https://ieomsociety.org/proceedings/barcelona2026/>

Production Director

Md Taufiqul Islam, Ph.D.

Cover Illustration

Takiyah Ali