

March 2023

Proceedings of the International Conference on Industrial Engineering and Operations Management
ISSN / E-ISSN: 2169-8767
ISBN: 979-8-3507-0543-0

13th International Conference on Industrial Engineering and Operations Management

(Manila, Philippines, March 6-9, 2023)

Editor-in-Chief
Md Nazrul Islam, Ph.D.
IEOM Society International

Editorial Board:

Ahad Ali, Lawrence Technological University, USA
Eldon Caldwell, University of Costa Rica, Costa Rica
Guilherme Tortorella, Federal University of Santa Catarina (UFSC), Trindade, Florianópolis – SC, Brazil
Henrique Ewbank, FACENS University, Sorocaba, Sao Paulo, Brazil
Lucila Maria de Souza Campos, Federal University of Santa Catarina (UFSC), Brazil
Luis Rocha-Lona, Instituto Politecnico Nacional, Mexico
Luz María Valdez de la Rosa, Engineering Department, University of Monterrey, México
Marcelo Santana – IFSP Sorocaba
Narciso Santaella – Lopes Consultoria de Imóveis
Rodrigo Gigante – FACENS University
Vitor M. Caldana, IFSP – Instituto Federal de São Paulo – Campus Sorocaba, SP, Brazil

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 on real-life applications and research which affect in 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 <http://ieomsociety.org/ieom/proceedings/>

Production Director

Md Taufiqul Islam, Ph.D.

Cover Illustration

Takiyah Ali