



2022 IEOM Awards – 3rd Asia Pacific International Conference

IEOM Distinguished Leadership Award

Dr. techn. Ir. Sholihin As'ad, M.T.

Dean
Faculty of Engineering
Universitas Sebelas Maret (UNS)
Surakarta, Indonesia

Prof. Dr. Ir. Agustinus Purna Irawan, M.T., M.M., IPU, ASEAN Eng.

Rector
Universitas Tarumanagara
Jakarta, Indonesia

IEOM Distinguished Educator Award

Dr. Elsayed A. Elsayed
Distinguished Professor
Industrial and Systems Engineering
Rutgers University
New Brunswick, NJ, U.S.A.

Dr. Hartono, M.Pd
Dean
Faculty of Science and Technology
UIN Sultan Syarif Kasim
Riau, Indonesia

Assoc Prof Dr Adnan Hassan
Universiti Teknologi Malaysia

Distinguished Industry Achievement Award

Dr. Ir. Jupriyanto, S.T., M.T., CIQaR, IPU., ASEAN Eng

Lecturer, Faculty of Defense Technology
Republic of Indonesia Defense Universiti

Dr. Mohd Azman Idris
Senior General Manager
SIRIM STS Sdn Bhd, Malaysia

Distinguished Professor Award

Prof. Ir. Muhammad Nizam, S.T., M.T., Ph.D

Coordinator of National Research Priority for Product: Energy Storage (Lithium) and Charging Station
Secretary of Centre of Excellence for Electrical Energy Storage Technology, UNS
Head of Electric Vehicle Technology and Sustainable Energy Systems Research Group
Sebelas Maret University, Surakarta, Indonesia

Outstanding Professor Award

Prof. Nigel Grigg

Professor of Quality Systems
Group Leader, Department of Operations and Engineering Innovation
Massey University
New Zealand

IEOM Woman in Industry and Academia Award

Dr. Tanika D Sofianti

Associate Professor and Coordinator of Laboratory of Innovation and Digital Transformation
Industrial Engineering Department
Engineering Faculty of Swiss German University
Prominence, Alam Sutera, Indonesia

Dr. Ir. Lina Gozali

Lecturer
Department of Industrial Engineering
Tarumanagara University
Jakarta, Indonesia

IEOM Global Engineering Education Award

Dr. Naniek Utami Handayani, S.Si, MT

Department of Industrial Engineering,
Universitas Diponegoro, Semarang, Indonesia

Assoc. Prof. Dr Syed Ahmad Helmi Syed Hassan

Associate Fellow, Center for Engineering Education (CEE)
Universiti Teknologi Malaysia

Teaching Excellence Award in Additive Manufacturing

Ts. Dr. Aini Zuhra Abdul Kadir

Associate Professor
School of Mechanical Engineering (SME)
Faculty of Engineering
Universiti Teknologi Malaysia (UTM)
Johor Bahru, Johor, Malaysia

OM Teaching Award

Dr. Mohamed Syazwan Ab Talib

Assistant Professor
UBD School of Business and Economics
Brunei Darussalam

SCM Teaching Excellence Award

Dr. Azanizawati Ma'aram

Associate Professor
School of Mechanical Engineering
Faculty of Engineering
Universiti Teknologi Malaysia (UTM)
Johor, Malaysia

Sustainability Award

Dr. Ichsan

Sustainability Advisor
Embassy of the Kingdom of the Netherlands
Jakarta, Indonesia

Jose Evaldo Geraldo Costa, Ph.D.

Instituto Universitário de Lisboa (ISCTE-IUL)
Centro de Estudos Sobre a Mudança Socioeconómica e o Território
Lisboa, Portugal

STEM Award

Professor Ts. Dr. Mohamad Sattar Rasul

Chairman of STEM Enculturation Center, Faculty of Education
Universiti Kebangsaan Malaysia (UKM)
Bandar Baru Bangi, Selangor
Malaysia

Industry Solutions Award

Casey Ang

Founder of Operational Skills Development Centre
Lenoxcells Consulting Sdn. Bhd.
Pulau Pinang, Malaysia

Dr Mohd Faridh Ahmad Zaharuddin

Universiti Teknologi Malaysia

Ts. Dr. Muhd Ikmal Isyraf Bin Mohd Maulana

Senior Lecturer
School of Mechanical Engineering
Universiti Teknologi Malaysia

Operations Excellence Award

Engr Lourdes P. Lasian, PIE

Department of Industrial Engineering
Adamson University
Manila, Philippines

Operations Management Award

Professor Marco Tieman

Senior Fellow
IPMI International Business School
Malaysia

Renewable Energy Award

Dr. Kunaifi, ST., PgDipEnSt., M.Sc.

Founding and Board Member Of Energy Research Group (ENREACH)
UIN Sultan Syarif Kasim Indonesia

IEOM Distinguished Service Award

Dr. Jafri Mohd Rohani

Associate Professor
Universiti Teknologi Malaysia
Johor Bahru, Malaysia

Prof. Dr. Ir. Wahyudi Sutopo, ST., M.Si

Professor, Dept. of Industrial Engineering
Faculty of Engineering
University of Sebelas Maret (UNS)
Surakarta, Indonesia
Director of IEOM Asia Pacific Operations

Fitra Lestari, BEng, MEng, PhD

Vice Dean and Associate Professor
Department Industrial Engineering, UIN Sultan Syarif Kasim
Riau, Indonesia

Renny Rochani, MT., PhD

Lecturer, Industrial Engineering Department
Sebelas Maret University
Surakarta Indonesia

Dwi Agustina Kurniawati, S.T., M.Eng., Ph.D,

Head of Master Program in Industrial Engineering
Universitas Islam Negeri Sunan Kalijaga
Yogyakarta, Indonesia

IEOM Society Service Award

Dr. Ratna Purwaningsih, ST., MT.

Head of Industrial Engineering Department
Universitas Diponegoro, Semarang, Indonesia

Dr. Eko Pujyanto, S.Si, MT

Head of Master Program in Industrial Engineering
Universitas Sebelas Maret, Surakarta, Indonesia

Dr. Eng. Desto Jumeno, ST, MT,

Head of Master Program in Industrial Engineering
Universitas Andalas, Padang, Indonesia

IEOM Faculty Advisor Award

Dr. Ir. Muh. Hisjam, STP, MT,

Department of Industrial Engineering
Universitas Sebelas Maret
Surakarta, Indonesia

Prof Dr. Ir. Renita Manurung, MT

Vice Dean for Academic and Student Affairs
Universitas Sumatera Utara
Medan, North Sumatera
Indonesia

IEOM Outstanding Student Leadership Award

- Elysia Maida Joanda – IEOM Malaysia Chapter President
- Nur Laila Nabilah Mohamad Naser, Zoom Host

Competition Winner Awards

Undergraduate Student Paper Competition Sponsored by SIEMENS

1st place winner

ID 167 The Sentiment Analysis of Online Customer Review on Food and Beverages Delivery Services in the GOJEK Application Using K-Nearest Neighbors
Aal Fathrizqy Putra Mahardika, Student, Department of Industrial Engineering, Faculty of Engineering, Universitas Negeri Malang, Indonesia
Aisyah Larasati, Associate Professor, Department of Industrial Engineering, Faculty of Engineering, Universitas Negeri Malang, Malang, Indonesia
Abdul Muid, Lecturer, Department of Industrial Engineering, Universitas Negeri Malang, Malang, Indonesia

2nd place winner

ID 776 Impact of Employee Training, Work Environment, Incentives, and Work Disciplines on Employee's Job Performance Through Mediating Role of Job Satisfaction During Covid 19 Pandemic: A Study on Logistic Companies in West Jakarta Johanna Tania, Universitas Tarumanagara, Jakarta, Indonesia
Yenita, Senior Lecturer, Faculty of Economic and Business, Universitas Tarumanagara, Jakarta, Indonesia

3rd place winner

ID 326 Quality Control Analysis Using the Grey Failure Mode and Effect Analysis Method on an Electric Batik Stove (Case Study: CV. ABC)
Isnaini Khasanah and Ira Setyaningsih, Industrial Engineering Department, UIN Sunan Kalijaga Yogyakarta, Yogyakarta, Indonesia

Graduate Student Paper Competition sponsored by EATON Corporation

1st place winner

ID 676 A Scientometric Analysis : Big Picture of Innovation Process in Merger & Acquisition
Kirana Rukmayuninda Ririh, Ph.D. Student, Department of Agro-Industrial Engineering, IPB University, Bogor, West Java, Indonesia
Elisa Anggraeni, Senior Lecturer, Department of Agro-Industrial Engineering, IPB University, Bogor, West Java, Indonesia
Machfud, Professor, Department of Agro-Industrial Engineering, IPB University, Bogor, West Java, Indonesia
Nurul Taufiqu Rochman, Professor, Research Center of Metallurgical & Materials, National Research and Innovation Agency, Tangerang, Banten, Indonesia

2nd place winner

ID 292 Analyzing Factors Affecting Continuance Intention to Use E-wallet During Covid-19 Pandemic in Indonesia
Kenji Nakanishi, Ong Jordi and Andrew Wijaya, Fast Track Program, Management Departement, BINUS Business School Master Program Bina Nusantara University, Jakarta, Indonesia
Dewi Tamara, Executive in Strategic Management Program, Management Departement, BINUS Business School Master Program, Bina Nusantara University, Jakarta, Indonesia

3rd place winner

ID 240 Evaluation of Financial Performance and Business Strategy at the Ministry of Religion Employee Cooperative Ilham Nurhaqien Widyantoro, Master Program in Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret Surakarta, Indonesia
Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and TechnoEconomic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
Renny Rochani, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering Universitas Sebelas Maret, Surakarta, Indonesia

Undergraduate Research Competition

1st place winner

ID 794 Overtime Work, Time Management, and Employees' Work-Life Balance (a Perspective from Employees at a Human Capital Division in a Bank in West Java, Indonesia)
Anne Dewi Easya and Ade Irma Susanty, Business Administration Department, Faculty of Communication and Business, Telkom University, Bandung, West Java, Indonesia

2nd place winner

ID 616 Gesture Based Control of the Industrial Robots
Irfan Fikhri bin Iszahar and Tanveer Saleh, Autonomous System and Robotics Research Unit (ASRRU), Department of Mechatronics, International Islamic University Malaysia, Gombak, Malaysia

3rd place winner

ID 691 The Influence of Profitability, Leverage, and Intitutional Ownership on Tax Avoidance (Study on Manufacturing Companies Listed on the Indonesia Stock Exchange in 2017 – 2020)
Ardan Gani Asalam and Indira Jihan Kamilah, Faculty of Economics and Business, Lecturer of Accounting, Telkom University, Bandung, Indonesia

Doctoral Dissertation

1st place winner

ID 3 Development and Validation of a Production Planning Model for Throughput Shortage Recovery Through Process Parameter Adjustment in Manufacturing Industry
Ho Kok Hoe, Senior Lecturer, Robotics and Mechatronics Discipline, School of Engineering, Monash University Malaysia, Subang Jaya, Selangor, Malaysia

2nd place winner

ID 576 Lean Supply Chain Operational Model Applied to Halal Education Industry
Wresni Anggraini, Student at Doctoral Program of Islamic Economy and Halal Industry, Gadjah Mada University, Indonesia
Indonesia Industrial Engineering Department, UIN Sultan Syarif Kasim Riau, Indonesia
Rika Fatimah P.L, Faculty of Economics and Business Gadjah Mada University, Indonesia
Fitra Lestari Norhiza, Industrial Engineering Department, UIN Sultan Syarif Kasim Riau, Indonesia

3rd place winner

ID 33 Implementation of Agile Manufacturing in the Shipbuilding Industry: Challenge and Recommendation
Sutrisno and Mokh Suef, Interdisciplinary School of Management and Technology, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
Buana Ma'rif, Research Center for Hydrodynamics Technology, The National Research and Innovation Agency (BRIN), Indonesia

Master Thesis Competition

1st place winner

ID 609 Dynamic Balanced Scorecard Performance Analysis of Medical Device Distributor During the Covid-19 Pandemic Crisis
Barata Sutrisno and Humiras Hardi Purba, Master of Industrial Engineering, Faculty of Engineering, Mercu Buana University, Jakarta, Indonesia

2nd place winner

ID 610 Analysis of Intention Factors Joining Course Using Advertising social media
Pitri Yanti, Masters Student of Management, Postgraduate Program, Universitas Bina Darma, Palembang, Indonesia.
Muji Gunarto, Management Department of Economics and Business Faculty, Universitas Bina Darma, Palembang, Indonesia

3rd place winner

ID 665 Analisa Faktor-Faktor Yang Mempengaruhi Persistensi Laba
Marsudi and Hari Setiyawati, Departemen Akuntansi, Universitas Mercu Buana, Jakarta, Indonesia

Senior Capstone Design Project Competition sponsored by Tooling Tech Group

1st place winner

ID 106 Product Design and Business Feasibility Analysis of Extendable Chair
Sylvia, Robin, Jennifer Darlene Chrissy, Rio Karuna, Lina Gozali, Wilson Kosasih, Carla Olyvia Doaly, Lihtone Laricha, Mohammad Agung Saryatmo and I Wayan Sukania, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia
Agustinus Purna Irawan and Harto Tanujaya, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

2nd place winner

ID 25 The combined effect of indoor environmental condition on human performance and memory
Mohammad Hashir MehmoodUCSI University Malaysia

Human Factors and Ergonomics Competition

1st place winner

ID 296 Increasing Productivity at the 970 Geprek Chicken Business Through Ergonomics Intervention and Designing of Work Aids at Workstations
Geraldo Rafael, Christyfanie Elva Angelica, Natasia Aurelia, Lina Gozali, and Adianto, Industrial Engineering Department, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia
Ahad Ali, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI, USA

2nd place winner

ID 712 Drowsiness on Industrial Logistics Driver in the Morning and Afternoon Trip
Lovely Lady, Yusraini Muharni and Ani Umyati, Industrial Engineering Department, University of Sultan Ageng Tirtayasa, Cilegon – Indonesia

3rd place winner

ID 163 Lean Maintenance Implementation to Analyze Overlock Machine Maintenance at PT XYZ
Hadi Wilianto and Lina Gozali, Adianto, Industrial Engineering Department, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia

Lean Six Sigma Competition sponsored by Tooling Tech Group

1st Place winner

ID 638 Use of Six Sigma DMAIC for Engineering Design Process Improvement: A Case Study
Rogel Angelo A. Rebualos, Klint Allen A. Mariñas, Michael N. Young, and Yogi Tri Prasetyo, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines
Klint Allen A. Mariñas and Yung-Tsan Jou, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City, Taiwan
Satria Fadil Persada, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

2nd place winner

ID 99 Lean Manufacturing Approach using SMED Method and Value Stream Mapping on The Spring beds Production Floor at P.T. Alpha Jaya Manunggal Mandiri
Geraldo Rafael, Natasia Aurelia, and Sherine Angellina Hoswari, Students in Industrial Engineering Department, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia
Lina Gozali, Lecturer in Industrial Engineering Department, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia
Ahad Ali, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI, U.S.A

3rd place winner

ID 153 Lean Six Sigma As A Strategy for Increasing Knitting Manufacturing Profitability Through Fabric Quality and Work Efficiency Improvement
Kevin Adrian, Andres and Wilson Kosasih, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jakarta, Indonesia

Simulation Competition

1st place winner

ID 41 Redesigning the facility layout with systematic layout planning method and PROMODEL simulation on spring beds production line at P.T Alpha Jays Manunggal Mandiri
Geraldo Rafael and Christyfanie Elva Angelica and Yovita Ng, Students in Industrial Engineering Department, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia
Lina Gozali, Faculty of Industrial Engineering Department, Tarumanagara University, Jakarta, Indonesia
Ahad Ali, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, MI, USA

2nd place winner

ID 561 Using Monte Carlo method to determine value at risk in hotel stocks.
Dicky Hida Syahchari, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia

3rd place winner

ID 559 How to calculate the expected return on estate stocks
Dicky Hida Syahchari, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia

Supply Chain and Logistics Competition

1st place winner

ID 162 Production Planning, Inventory And Capacity IN PT. WDY AND ERP Simulation Open Source
Bratayuda Raya, Lina Gozali and Carla Olyvia Doaly, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

2nd place winner

ID 555 Assessing Furniture Brands In Marketing 4.0 For Green Supply Chain Management Using Multi-Criteria Decision Making
Saleh Yahya Alghamdi, Assistant Professor, College of Engineering, King Khalid University, Abha, Kingdom of Saudi Arabia

3rd place winner

ID42 Analysis Of Raw Material Planning With Optimal Cost Consideration Using Safety Stocks, Material Requirement Planning And Lot Sizing Methods At Plastic Jar Company
Dennis Marchello and Jessica, Student of Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia
Lina Gozali, Lecturer in Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia
Ahad Ali, Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University,

Southfield, MI, USA

COVID 19 Competition

1st place winner

ID 164 Quality Improvement Of Tix.Id Application Using Gap Analysis, And Quality Function Development (QFD) Method By House Of Quality (HOQ)

Thomson Richard and Geraldo Rafael, Students in Industrial Engineering Department, Faculty of Engineering, Tarumanagara University Jakarta, Indonesia

Lina Gozali and Lithrone Laricha Salomon, Lecturer in Industrial Engineering, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia

Ahad Ali, A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, MI, USA

2nd place winner

ID 77 Business Feasibility Study Of Portable Washbin Products For Public Facilities

Berta Lawrensa, Kenneth Pardamean Simorangkir, Dharmawan Tanuwijaya, and Dian Safhira Firdaus AK, Industrial Engineering Department Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia

Lina Gozali, Wilson Kosasih, Carla Olyvia Doaly, Agustinus Purna Irawan and Harto Tanujaya, Industrial Engineering Department, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia