2025 IEOM Asia Pacific Awards – Industrial Engineering and Operations Management International Conference
Bali, Indonesia, August 5-7, 2025
Venue: Warmadewa University (UNWAR), Denpasar, Bali, Indonesia

Distinguished Leadership Award in Higher Education

Prof. Ir. Togar M. Simatupang, M. Tech., Ph.D., IPU.
Professor of Operations and Supply Chain Management
Bandung Institute of Technology (ITB)
Bandung, Indonesia

Distinguished Academic Leadership Award

Prof. Dr. Ir. I Gde Suranaya Pandit, M.P.
Rector, Warmadewa University
Bali, Indonesia

Dr. Dinora Ishmanova
Rector, Millat Umidi University
Uzbekistan

Prof. Dr. rer. pol. Ir. Didik Notosudjono, M.Sc., IPU., ASEAN Eng., APEC Eng.
Rektor, Universitas Pakuan
Bogor, Indonesia

Distinguished Industry Leadership Award

Gusti Ngurah Anom (Ajik Krisna)
Founder and Owner
Krisna Oleh-Oleh Bali
Denpasar - Bali, Indonesia

Distinguished Industry Practitioner Award

Ir. Ts. Dr. Hj. Mohd Khairolden Ghani
Senior Manager, Consultancy and Inspection
Construction Research Institute of Malaysia (CREAM)

Distinguished Industry Achievement Award

H.E. Dr. Nur Hassan Wirajuda
CIRSD – Center for International Relations and Sustainable Development

Distinguished Educator Award

Prof. Erry Yulian Triblas Adesta, PhD
Vice Rector for Academic, Research and Innovation
Universitas Bandar Lampung
Lampung, Sumatra, Indonesia

Dr. Putu Doddy Heka Ardana
Dean, Faculty of Science and Technology
Universitas Ngurah Rai
Kota Denpasar, Bali, Indonesia

Distinguished Professor Award

Dr. Kurbonov Nurbek Nurullo Ugli
Associate Professor, Power Supply Department
Tashkent State Technical University (TSTU)
Tashkent, Uzbekistan

Outstanding Researcher Award

Professor Dr. Hirohiko Mori
Full Professor and Researcher of Human-Computer Interaction, Human Factors, Cognitive Engineering, and Artificial Intelligence
Tokyo City University (TCU)
Japan and Chairman of the Department of Intelligent Systems at TCU

Outstanding Professor Award

Asep Denih, S.Kom., M.Sc., Ph.D.
Dean, Faculty of Mathematics and Natural Sciences
Senior Lecturer, Computer Sciences
Universitas Pakuan
Bogor, Indonesia

Outstanding Professor Award in Business Management

Dr. Ir. Ho Hwi Chie, IPU., ASEAN, Eng.
Associate Professor
Department of Industrial Engineering
Binus University
Indonesia

Outstanding Lecturer Award

Bryan Estavan Imanuel Sitanggang
Industrial Engineering Study Program
Udayana University
Badung, Bali, Indonesia

Outstanding Professor Award in Operations Research

Dr. Dino Caesaron
Associate Professor in Industrial Engineering
Chairman, Department of Industrial Engineering Graduate Program
Telkom University, Indonesia

Distinguished Woman in Industry and Academia Award

Dr. Nurul Rawaida Ain Burhani
Senior Lecturer | Industry Collaborator | Youth & Women Development Advocate
Senior Lecturer in Mechanical Engineering
Universiti Teknologi Malaysia (UTM)
Johor Bahru, Johor. Malaysia

Entrepreneurship and Innovation Award

Towaf Totok Irawan, Ph.D.
Dean, The Faculty of Economics and Business (FEB)
Pakuan University Bogor
Kota Bogor, Jawa Barat, Indonesia

Global Supply Chain Management Award

Dr. Ir. Yuary Farradia
Vice Rector Human Resource and Finance
Senior Lecturer, Faculty of Economic and Business
School of Postgraduate
Universitas Pakuan
Bogor, Indonesia

AI and Data Analytics Award

Feliks P. S. Surbakti, PhD
Head of Industrial Engineering Department
Atma Jaya Catholic University of Indonesia

Dr. Ir. Lina Gozali
Department of Industrial Engineeing
Tarumanagara University
Jakarta, Indonesia

Dr. Abdul Talib Bon
Professor
Department of Production and Operations Management
Universiti Tun Hussein Onn Malaysia

Best Practice Award

Dr Natasha Dzulkalnine
Senior Lecturer
Universiti Teknologi MARA (UiTM)
Cawangan Selangor
Kampus Puncak Alam, Malaysia

Sustainability Award

Dr. Suwin Sandhu
Department of Industrial Engineering
Faculty of Engineering
Chiang Mai University
Chiang Mai, Thailand

Lean Six Sigma Award

Ts. Dr. Muhd Ikmal Isyraf bin Mohd Maulana
Senior Lecturer & Postgraduate Program Coordinator (Industrial Engineering)
Universiti Teknologi Malaysia (UTM)
Johor Bahru, Johor, Malaysia

Outstanding Teaching Award in Supply Chain Management

Tengku Nurainun, ST, MT, Ph.D.
Associate Professor, Department of Industrial Engineering
Faculty of Science and Technology
Universitas Islam Negeri Sultan Syarif Kasim Riau
Panam, Pekanbaru, Riau, Indonesia

Outstanding Teaching Award in Transportation

Dr Andri Irfan Rifai
Professor and Dean, Faculty of Civil Engineering & Planning
Batam International University (UIB)
Batam, Indonesia

Global Manufacturing Award

Dr. Wresni Anggraini
Senior Lecturer, Department of Industrial Engineering
Faculty of Science and Technology
Universitas Islam Negeri Sultan Syarif Kasim Riau

Indonesia

Outstanding Leadership in Business Incubator

Harry Kasuma (Kiwi) Aliwarga
Chief Executive Officer and Co-Owner
UMG Myanmar
Karet Kuningan Jakarta, Indonesia

Outstanding Professor Award

Prof. Ir. Budi Santosa, M.Sc., Ph.D.
Professor of Industrial and System Engineering
Institut Teknologi Sepuluh Nopember (ITS)
Surabaya, Indonesia

Outstanding Professor Award in Project Management

Prof. Dr. Ir. Mudjiastuti Handajani, M.T.
Professor, Department of Civil Engineering
Faculty of Engineering
Semarang University
Semarang, Indonesia

Outstanding Teaching Award – Lean Six Sigma, Quality

Dr. Nuryadi, S.Sos., M.M.
Rector STIE Pemuda
Surabaya, Indonesia

Outstanding Teaching Award – OM

Dr. Musnaini., SE., MM
Associate Professor
Faculty of Economic and Business
Universitas Jambi, Jambi, Indonesia

Outstanding Teaching Award – Engineering Management

Ir. Muhammad Isradi, ST, MT, Ph.D.
Senior Lecturer
Department of Civil Engineering Universitas Mercu Buana
Jakarta, Indonesia

Distinguished Leadership Award

Putu Ika Wahyuni
Dept. Master of Infrastructure and Environmental Eng.
Warmadewa University (UNWAR)
Bali, Indonesia

Dr. Muhammad Ikhsan Setiawan
Chairman of the Entrepreneurship Program
Maritime University AMNI
Semarang, Indonesia

Dr. Hendro Sasongko, Ak., MM., CA
Associate Professor
Faculty of Economics and Business, Universitas Pakuan
Bogor, Indonesia

Outstanding Conference Service Award

Dr. Sara Nurmala, M.Farm.
Department of Pharmacy
The Faculty of Mathematic and Natural Sciences
Universitas Pakuan

Bogor, Indonesia

Dr. Retno Martanti Endah Lestari
Faculty of Economics and Business
Pakuan University
Bogor, Indonesia

Competition Winners

Undergraduate Student Paper Competition sponsored by Siemens - Online

First Place
ID 215   RFID-Enabled Inventory Accuracy Improvement in a Peruvian Textile Manufacturer: A Case Study
Adriana Milagro Jimenez-Chiang, Bachelor in Industrial Engineering, Carrera de Ingeniería Industrial, Universidad de Lima, Perú
Marcelo Estefano Vera-Alonso, Bachelor in Industrial Engineering, Carrera de Ingeniería Industrial, Universidad de Lima, Perú
Juan Carlos Quiroz-Flores, Research Professor, Carrera de Ingeniería Industrial, Universidad de Lima, Perú

Second Place
ID 216   Assessing Technological Feasibility of an On-shore Circular-Economy Treatment Plant for Recycling Ship-Generated Oily Waste in Peru
Miguel Francisco Colán-Sifuentes, and Jersson Fernando Coronado-Cabrera, Bachelor's in Industrial Engineering, Carrera de Ingeniería Industrial, Universidad de Lima, Perú
Juan Carlos Yacono-Llanos, and Juan Carlos Quiroz-Flores, Research Professors, Carrera de Ingeniería Industrial, Universidad de Lima, Perú

Third Place
ID 163   The Impact of Content Moderator Accounts on BPO Workers: Exploring How Social Media Content Exposure Contributes to Stress and Mental Health Challenges
Francis Lord Aspecto, Mary Grace P Bello, Christian G. Cabalatungan, Joseph Raniag C. Macarulay, Johnvyllle O. Mallari, Kevin John F. Renido, Lynz Krisha L. Reyes and Maricar M. Navarro, Industrial Engineering Program, College of Engineering and Architecture, Technological Institute of the Philippines, Quezon City, Philippines

Undergraduate Student Paper Competition sponsored by Siemens - Onsite

First Place
ID 193   Effect of Cryogenic Treatment Duration on The Mechanical and Microstructural Properties of Manganese and Cast Steels
Sai Pok Ken1, Mohd Azlan Suhaimi, Nurul Farhana Arisha Mohd Faizal, Lim Zuu Qin, Tan Kim Loong, Wan Fahmin Faiz Wan Ali and Muhd Ikmal Isyraf Mohd Maulana, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Johor, Malaysia

Second Place
ID 188   Pharmamed Chatbot and Audiovisual Media: A Dual Strategy for TB Screening and Education in South Bogor
Serina Juniati, Departement Pharmacy, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia
Lusi Agus Setiani, Departement Pharmacy, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia
Dewi Oktavia Gunawan, Departement Pharmacy, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia
Stefanus Nofa, Indonesian Pharmaceutical Informatics Association

Third Place
ID 180   Weather Forecasting Using Markov Chains in Bogor City: Software Implementation for Predicting Weather Patterns
Bandar Anzari, Student, Study Program of Mathematics, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia
Hagni Wijayanti, Lecturer, Study Program of Mathematics, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia
Pilar Kukuh Bintang Rachmadi, Student, Study Program of Computer Science, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia

Undergraduate Research Competition sponsored by Daikin Applied - Online

First Place
ID 214   Sustainable Functional Noodles Enriched with Ultrasound-Extracted Agar from Peruvian Red Seaweed (Chondracanthus chamissoi): Mixture-Design Optimization and Physicochemical Evaluation
Ariana Novoa-Casablanca, Bachelors in Industrial Engineering, Carrera de Ingeniería Industrial, Universidad de Lima, Perú
Cristian Toribio Villanueva-Palacios, Bachelors in Industrial Engineering, Carrera de Ingeniería Industrial, Universidad de Lima, Perú
Juan Carlos Quiroz-Flores, Research Professor, Carrera de Ingeniería Industrial, Universidad de Lima, Perú

Second Place
ID 48   Designing Product Placement Strategy for Outbound Loading Process in C4 Container Trucks at PT XYZ
Fitriadi, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, 11480, Indonesia
Hwi-Chie Ho, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, 11480, Indonesia
Amir Tjolleng, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta, 11480, Indonesia

Third Place

ID 164   Balancing Academic Responsibilities, Work, and Leadership: Assessing the Mental Workload and Emotional Capacity of Working Students and Student Leaders in the National Capital Region
Jelsey Marie Concepcion, Justine Julia Marie Sevilla, Cristel Ann Sevilleno, Angelica Aelora Baluyot, Franchesca Roi Cipriano, Christian Jess Garriga, Jhovic Querido, Lynz Krisha Reyes and Maricar M. Navarro, Industrial Engineering Program, College of Engineering and Architecture Technological Institute of the Philippines, Quezon City, Philippines

Undergraduate Research Competition sponsored by Daikin Applied - Onsite

First Place
ID 118   Study of Quality Control in Capillary Side Contour Tolerance of Intravenous Catheters
Nur Ain Sahira Mohamad Tarmizi and Jafri Mohd Rohani, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia

Second Place
ID 115   AI-Based Predictive Maintenance Model in Palm Oil Mill
Nursyuhadah Saleh, Jafri Mohd Rohani and Nurul Rawaida Ain Burhani, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia (UTM)
81300 Skudai, Johor, Malaysia

Third Place
ID 147   An Analysis of Sales and Cash Receipt Procedures to Support Internal Control: A Case Study at Auto2000 Yasmin Bogor
Salwa Salsabil, Retno Martanti Endah Lestari and Abdul Kohar, Lecturer, Faculty of Economics and Business, Pakuan University, Bogor, Indonesia

Master Thesis Competition

First Place
ID 120   Comparing Customer-Oriented and Revenue-Oriented Overbooking Strategies in Dynamic Pricing Environments
Junsei Ito, Graduate School of Engineering, Kanagawa University, 3-27-1 Rokkakubashi, Kanagawa-ku, Yokohama, Kanagawa 221-8686, Japan
Kimitoshi Sato, Faculty of Engineering, Kanagawa University, 3-27-1 Rokkakubashi, Kanagawa-ku, Yokohama, Kanagawa 221-8686, Japan

Second Place
ID 111   Relationship Between Safety Culture and Safety Performance in SME Malaysia
Puteri Mawardati Yasir, Jafri Mohd Rohani and Yuhvhendrra Shrii Kumar, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Johor, Malaysia
Istas Fahrurrazi Nusirwan, Faculty of Artificial Intelligence, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia
Erialdi Syahrial, Faculty of Business and Economics, Universiti Malaya, Malaysia
Wesley Anak Lock Sulen, International, Policy and Research Development Division, Department of Occupational Safety and Health Malaysia (DOSH), Malaysia

Third Place
ID 68   Predictive Model for Electric Vehicle Reconfiguration in Malaysia
Nadia Adibah Rajab, Nor Asmaa Alyaa Nor Azlan, Nur Liyana Mohd Aris, Mohd Azman Abas, Izhari Izmi Mazali, Wan Muhammad Rifqi Wan Mohd Azmi and Jafri Mohd Rohani, Faculty of Mechanical Engineering, Universiti Teknologi Malaysia, Johor Bahru, Malaysia
Zool Hilmi Ismail, Malaysia-Japan International Institute of Technology (MJIIT), Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia
Farraen Mohd Azmin, Machine Learning Technical Specialist, Elysia Battery Intelligence, Bicester, England, United Kingdom

Doctoral Dissertation Competition sponsored by Airbus

First Place
ID 80   A Qualitative Study on Lean Six Sigma and Robotic Process Automation Integration
Marciano Hermo INNOVEO Consulting, Philippines

Graduate Student Paper Competition sponsored by Eaton

First Place
ID 50   Prediction Model and Early Warning System for Compressor Performance Degradation Based on Machine Learning
Galih Prihasetya Hermawan, Bobby Kurniawan and Achmad Bahauddin, Industrial Engineering and Management Master Program, Department of Industrial Engineering, Universitas Sultan Ageng Tirtayasa (UNTIRTA), Cilegon, Banten, Indonesia

Second Place
ID 234   Net-Zero AI: A Paradigm Shift in Environmentally Conscious Machine Learning Development
Katya Victory Liu, Lina Gozali and Adianto Adianto, Program Studi Teknik Industri, Universitas Tarumanagara, Indonesia

High School STEM Competition

First Place
ID 127   A Computational Approach to Chinese Calligraphy: Data-Driven Feedback Through Pixel-Based Stroke Segment Analysis
Lai Pin-Jen, Junior Student, Kang Chiao International School Linkou Campus, Taipei, Taiwan
Ho Jo-Yu, Junior Student, Kang Chiao International School Linkou Campus, New Taipei, Taiwan
Tai Yu-cheng, Undergraduate student, National Taiwan University, Taipei, Taiwan

Second Place
ID 126   NEUTRA: Autonomous Smart Waste Neutralizer
Shreya Chauhan, High School Student, Delhi, India

Human Factors and Ergonomics Competition

First Place
ID 256   Correlation and Regression of Heart Rate Changes Due to Variations in Speed and Incline During Treadmill Exercise
I Wayan Sukania, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia
Marthinus Chandra, Industrial Engineering Department, Tarumanagara University, Jakarta, Indonesia
Florencia Charlene Teng, Industrial Engineering Department, Tarumanagara University, Jakarta, Indonesia

Second Place
ID 179   The Impact of Patient Education on Knowledge of Gastritis and Its Management in Public Health Centers
Sara Nurmala, Pharmacy Study Program, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia
Nisa Yulianti Suprahman, Faculty Sains Institut Teknologi Sumatera, Lampung 35365, Sumatra, Indonesia
Usep Suhendar, Pharmacy Study Program, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia
Ladya Putri Kartini Gunawan, Pharmacy Study Program, Faculty of Mathematics and Natural Sciences, Pakuan University, Bogor, Indonesia

ID 231   Designing a Smart Monitoring System to Facilitate Remote Monitoring Services Using a Design Thinking Approach
Herfaida Nadia Ningrum, Dino Caesaron, Nadia Daliana, Ilma Mufidah, Department of Industrial Engineering, Telkom University, Bandung, Indonesia

Simulation Competition

First Place
ID 63   Environmental-friendly Pathfinding on Three-dimensional Terrain Surface Models
Ken Bruno Aono and Hiroyuki Goto, Department of Industrial and Systems Engineering, Hosei University, Tokyo 184-8584, Japan
Taiki Otsuka, Faculty of IT and Business, Cyber University, Fukuoka 813-0017, Japan
Yoichi Shimakawa, Department of Computer Science and Technology, Salesian Polytechnic, Tokyo 194-0215, Japan

Second Place
ID 235   The Green Shift: Quantifying the CO2 Reduction Potential of Electric Vehicle Production and Allied Innovations
Christhoper Robin, Lina Gozali, and Adianto, Department of Industrial Engineering, Universitas Tarumangara, Jakarta, Indonesia

Third Place
ID 45   Improving Hospital Management Efficiency with Simulation using Six Sigma Methods: The Case of Dajia Lee's General Hospital
Giuliana Schulz, Abigail Borja, Fiorella Duarte, Ivan Olmedo, Shih-Hsien Tseng and Robert Ruey Huei Yeh, National Taiwan University of Sciences and Technology, Taiwan

Supply Chain and Logistics Competition sponsored by aThingz

First Place
ID 124   Performance Evaluation of Demand Forecasting Models for Textile industry in Bangladesh: Seasonality, Time Series, and Machine Learning Approaches
Amir Mohammad Mazed and Arjun Das, Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna, Bangladesh
Bhabna Das, Computer Science & Engineering, East Delta University, Chattogram, Bangladesh

Second Place
ID 117   Development of Computer Simulation Model for Capacity and Resource Planning: A Case Study of Intraocular Lens Manufacturing System
Parid Jaisuda, Graduate Program in Logistics and Supply Chain Engineering, Department of Industrial and Manufacturing Engineering, Faculty of Engineering, Prince of Songkla University, Thailand
Nikorn Sirivongpaisal and Dollaya Buakum, Department of Industrial and Manufacturing Engineering, Smart Industry Research Center, Faculty of Engineering, Prince of Songkla University, Thailand
Narttakarn Khunjun, Smart Industry Research Center, Faculty of Engineering, Prince of Sonka University, Thailand

Third Place
ID 56   Information Firewall and Component Procurement
Ehsan Bolandifar, HSBC Business School, Peking University, China

Poster Competition

Based on the Presentation

First Place
ID 186   Disability, Stigma, and Public Trust: Understanding Community Perspectives on Inclusive Education
Henny Suharyati, and Padel M. Rallie Rivaldy, Universitas Pakuan, Indonesia

Second Place
ID 150   Organic Waste Management with the Pentahelix Model in Bogor City
Indi Naswa, Faculty of Economics and Business, Department of Management, Faculty of Economics and Business, University of Pakuwon (UNPAK), Bogor, West Java, Indonesia
Abel Gandhy, Head of Quality Assurance Unit, Management Study Program, Pakuan University, Bogor, West Java, Indonesia

Third Place
ID 157   SWOT Analysis of QRIS (Quick Response Code Indonesian Standard) Adoption for MSME Sales Enhancement: A Strategic Framework for Digital Payment Integration
Nazla Primanita Gunawan, Student, Faculty of Economics and Business, Pakuan University, Bogor, Indonesia
Abel Gandhy, Lecturer, Faculty of Economics and Business, Pakuan University, Bogor, Indonesia

Based on Overall Content

First Place
ID 220   Predictive maintenance for on load tap changer (OLTC) failure in oil transformer
Nurulfatin Fasihah Roslan, and Mohd Faridh Ahmad Zaharuddin, Department of Materials, Manufacturing and Industrial Engineering, Universiti Teknologi Malaysia, UTM Johor Bahru, Johor, Malaysia

Second Place
ID 66   Designing of the K-LEXO (Korea Lower-limb Exoskeleton) for Elderly Agricultural Workers
Yong-Ku Kong, Hyun-Ho Shim, Dokyeong Lee, Hyun-Seok Yang, Jaehwi Lee and Hyunji Keum, Department of Industrial Engineering, Sungkyunkwan University, Suwon-si, Republic of Korea

Third Place
ID 133   An Analysis of Transformer Health Index for Optimizing Asset Management Strategies Based on Operational and Environmental Data
Mayendra Yudhanarko, Postgraduate student, Industrial and Systems Engineering Department, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia
Nani Kurniati, Lecturer, Industrial and Systems Engineering Department, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 232   Enhancing Teacher Innovation through Digital Literacy, 21st-Century Learning, and Visionary Leadership
Enur Mutiah Islami, Department Educational Management, Universitas Pakuan, Bogor, Indonesia
Henny Suharyati, Department Educational Management, Universitas Pakuan, Bogor, Indonesia
Rais Hidayat, Department Educational Management, Universitas Pakuan, Bogor, Indonesia

Best Track Papers

Track ID	Track Name	Best Track Paper ID
1	Artificial Intelligence and Data Science	149
2	Automation, Robotics and Autonomous Systems	187
3	Business Management and Operations Management	87
4	Digital Manufacturing, Industry 4.0 and IoT	178
5	Engineering Education and Curriculum Improvement	233
6	Engineering Management and Project Management	11
7	Entrepreneurship and Innovation	47
8	Facility Planning and Layout	258
9	Human Factors, Ergonomics and Healthcare System	256
10	Lean Six Sigma and Operations Excellence	74
11	Manufacturing, Assembly and Design	221
12	Quality, Reliability and Maintenance	5
13	Simulation, Optimization and Productivity Improvement	134
14	Supply Chain and Logistics	124
15	Sustainability, Green Systems and Energy	53
16	Case Studies and Best Practices	192

Best Track Papers

Artificial Intelligence and Data Science

ID 149   Development of a Beehive Prototype to Produce Honey Through Digital Manufacturing Technologies
Leonardo Fabian Juan Tercero Yzaguirre Mendoza, University of Lima, Faculty of Engineering, Lima, Peru
Gabriel De Souza Pellanne, University of Lima, Faculty of Engineering, Lima, Peru

Automation, Robotics and Autonomous Systems

ID 187   Adaptive Differential Control Strategy for an AGV with LiDAR-based Obstacle Sensing
Isaree Srikun, Department of Electrical Engineering Technology, Faculty of Industrial Technology, Phranakhon, Rajabhat University, Thailand
Keeradit Saipattalung, Department of Intelligent Electronics and Computer Engineering, Faculty of Industrial Technology, Phranakhon, Rajabhat University, Thailand
Somjai Klin-ngam, Department of Digital Technology and Information Management, Faculty of Industrial Technology, Phranakhon, Rajabhat University, Thailand

Business Management and Operations Management

ID 87   Application of the 5S and TPM methodology in the forming process for the manufacture of gas cylinders
Kevin Rodrigo Nuñez-Fernandez, and Gino Alonso Zevallos-Fiascunari, Facultad de Ingeniería, Universidad de Lima, Perú
Paul Sanchez Soto, Research Professor, Facultad de Ingeniería, Universidad de Lima, Perú

Digital Manufacturing, Industry 4.0 and IoT

ID 178   Strategic Hospital Cluster-based Delivery Planning for Centralized Healthcare Additive Manufacturing Systems
Chanipa Nivasanon, Department of Industrial Engineering, Kasetsart University, Bangkok, Thailand
Pornthep Anussornnitisarn, Department of Industrial Engineering, Kasetsart University, Bangkok, Thailand
Kasin Ransikarbum, Faculty of Engineering, Ubon Ratchathani University, Ubon Ratchathani, Thailand

Engineering Education and Curriculum Improvement

ID 233   Transforming Indonesia Drilling Training Center – Pertamina Drilling Services Indonesia as One of Biggest Drilling Training Center in South East Asia: Implementation of MINDCRAFT to Drive Revenue and Competency Development
Ng Willam Wijaya, Chair Rony, Muhammad Iqbal Shahputra, Hilman Himawan, Ardian Aminuddin, Aktrilianjas Ulpa, Minar Prianto, and Dora Indah, Pertamina Drilling Services Indonesia, Subholding Upstream, Pertamina, Jakarta, Indonesia

Engineering Management and Project Management

ID 11   Evaluation of Maintenance and Repair Contracts Used in the Mining Industry by Service Providers
Charles B. Mahowa, Postgraduate School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa
Edoghogho Ogbeifun, Civil Engineering Department, Faculty of Engineering, University of Jos, Nigeria
Jan Harm C. Pretorius, Postgraduate School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa
School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

Entrepreneurship and Innovation

ID 47   An Analysis of the Causes of Small and Medium-Size Enterprises Failure in Developing Countries: The Case of South Africa
Paul Saah, Department of Industrial Engineering, College of Science, Engineering and Technology, University of South Africa
Charles Mbohwa, Department of Industrial Engineering, College of Science, Engineering and Technology, University of South Africa

Facility Planning and Layout

ID 258   Analysis of Influence Optimization Factors of Risk Management Strategies in Infrastructure Projects
Andy, Faculty of Civil Engineering and Planning, Universitas Internasional Batam, Batam, Kepulauan Riau, Indonesia
Indrastuti, Faculty of Civil Engineering and Planning, Universitas Internasional Batam, Batam, Kepulauan Riau, Indonesia
Joewono Prasetijo, Faculty of Engineering Technology, Universiti Tun Hussein Onn Malaysia
Muhammad Isradi, Department of Civil Engineering, Universitas Mercu Buana Jakarta, Indonesia

Human Factors, Ergonomics and Healthcare System

ID 256   Correlation and Regression of Heart Rate Changes Due to Variations in Speed and Incline During Treadmill Exercise
I Wayan Sukania, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia
Marthinus Chandra, Industrial Engineering Department, Tarumanagara University, Jakarta, Indonesia
Florencia Charlene Teng, Industrial Engineering Department, Tarumanagara University, Jakarta, Indonesia

Lean Six Sigma and Operations Excellence

ID 74   Improvement of Productivity in Portland Cement Production Applying Lean Manufacturing and Six Sigma
Macarena Crespo Egúsquiza and Camila Belén Minauro Núñez, From the Faculty of Engineering, students of the Industrial Engineering program
Universidad de Lima, Santiago de Surco, Lima, Perú
Richard Meza Ortiz, Faculty of Industrial Engineering, Professor, School of Industrial Engineering, Member, Operations Management and Green Logistics Research Group, Industrial Engineering Career, Universidad de Lima, Santiago de Surco, Lima, Perú

Manufacturing, Assembly and Design

ID 221   Parametric analysis & iterative engineering design for low-cost sago processing machine
Daniel Kale, Jimmy Ovia, and Dr. Mohamed, School of Mechanical Engineering, PNG University of Technology, Lae 411, Papua New Guinea

Quality, Reliability and Maintenance

ID 5   Improvement of Output and Waste Reduction Through Equipment Reverse Deterioration in an FMCG Industry: A TPM 4-Phases to Zero Breakdowns Approach
Edward Sontaga Makua, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa
Mendon Dewa, Lecturer, Durban University of Technology, Durban, South Africa

Simulation, Optimization and Productivity Improvement

ID 134   Productivity systems used for improving the operational process of making building blocks for productivity growth within the small-scale masonry block manufacturing in Gauteng, South Africa
Lucky Boy Tebogo Makhubedu, University of Johannesburg, South Africa
Nelson Madonsela, Faculty of Engineering and Built Environment, University of Johannesburg, Doornfontein, Johannesburg, South Africa

Supply Chain and Logistics

ID 124   Performance Evaluation of Demand Forecasting Models for Textile industry in Bangladesh: Seasonality, Time Series, and Machine Learning Approaches
Amir Mohammad Mazed and Arjun Das, Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna, Bangladesh
Bhabna Das, Computer Science & Engineering, East Delta University, Chattogram, Bangladesh

Sustainability, Green Systems and Energy

ID 53   A Delphi Analysis on the Barriers of Battery Circularity in Indian Electric Vehicle Battery Infrastructure
Rudra Prakash Pradhan, Ann Mary Varghese, Himanshu Chandra, Akanksha Jaiswal, and P. Vanita, Vinod Gupta School of Management, Indian Institute of Technology, Kharagpur, WB- 721302, India

Case Studies and Best Practices

ID 192   Regional Clustering and Forecasting of Chili Prices in Indonesia Using K-means with Canberra Distance and VARD Modeling
Embay Rohaeti, Department of Mathematics, Pakuan University, Bogor, West Java, Indonesia
Ani Andriyati, Department of Mathematics, Pakuan University, Bogor, West Java, Indonesia
Muhammad Edy Rizal, Department of Physics and Mathematics, Tadulako University, Palu, Central Sulawesi, Indonesia

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