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2026 IEOM Annual Asia Pacific Bangkok Awards

Industrial Engineering and Operations Management International Conference

Bangkok, Thailand, March 25-, June 25-27, 2026

Venue: Novotel Bangkok on Siam Square

Distinguished Academic Leadership Award

Prof. Manukid Parnichkun
Vice President for Academic and Research (VPAR), Asian Institute of Technology (AIT)
Professor & Chair, Mechatronics and Machine Intelligence Program, School of Engineering and Technology
Asian Institute of Technology
Klong Luang, Pathumthani, Thailand

Professor Gurmeet Singh
Deputy Vice-Chancellor and Vice President, Research and Innovation
University of the South Pacific (USP)
Suva, Central, Fiji

Distinguished Researcher Award

Dr. Britta Gammelgaard
Full Professor in Supply Chain Management
Department of Operations Management
Syddansk Universitet – University of Southern Denmark
Odense, Denmark

Outstanding Professor in Multi-Criteria Decision Making (MCDM)

Professor Apichat Sopadang (PhD)
Dean of Multidisciplinary and Interdisciplinary School
Chiangmai University, Thailand

Outstanding Professor in Human Factors and Ergonomics Award

Dr. Naris Charoenporn
Professor, Human Factors in Manufacturing Systems: Ergonomics, Safety Engineering
Thammasat School of Engineering (TSE)

Outstanding Teaching and Accreditation Award

Dr. Angsumalin Senjuntichai, D.Eng
Head of the Department of Industrial Engineering
Faculty of Engineering
Chulalongkorn University

Outstanding Professor Award

Dr. Kullapa Soratana
Dean, Faculty of Logistics and Digital Supply Chain
Naresuan University, Thailand

Outstanding professor in lean and sustainable manufacturing

Dr. Yi-Chi Wang
Professor, Department of Industrial Engineering and Systems Management
Feng Chia University
Taichung, Taiwan

Outstanding Professor Award

Dr. Thammawit Prasert
Head of the Department of Industrial Engineering and Management.
Silpakorn University

Outstanding Teaching and Learning Award

Dr. Chompoonut Kasemset
Head of the Industrial Engineering Department at Chiang Mai University,
Faculty of Engineering
Chiang Mai University

Outstanding Teaching Award in Simulation and Digital Twin

Dr. Nara Samattapong
Head of Industrial Engineering Department at SUT (Nakhon Ratchasima)
School of Industrial Engineering
Suranaree University of Technology (SUT)

Outstanding Curriculum Development Award

Dr. Nikorn Sirivongpaisal
Head of Industrial and Manufacturing Engineering Department
Prince of Songkla University (PSU)

Healthcare Digitalization and Data Analytics Award

Dr. Duangpun Kritchanchai
Associate Professor, Department of Industrial Engineering
Faculty of Engineering
Mahidol University, Bangkok, Thailand

Entrepreneurship and Incubation Award

Dr. Panu Buranajarukorn
Head of the Industrial Engineering Department
Faculty of Engineering (Phitsanulok)
Naresuan University, Bangkok, Thailand

Global Manufacturing and Automation Award

Dr. Chayathach Phuaksaman, Ph.D.
Head of Industrial Engineering at KMUTNB.
King Mongkut's University of Technology North Bangkok (KMUTNB)
Bangkok, Thailand

Global Engineering Education Award

Dr. Narongsak Thammachot
Faculty of Engineering & Technology (Nakhon Ratchasima/Isan region)
Rajamangala University of Technology Isan (RMUTI)

Industrial Design Award

Dr. Kriengsak Masnok
Head of Industrial and Logistics Engineering Department
Srinakharinwirot University

Engineering Education Award

Sawat Pararach, D.Eng.
Manufacturing Processes and Automation
Department of Industrial Engineering
Thammasat University, Thailand

Operations Management Award

Dr. Krit Pattamaroj
Head, Department of Operations Management
Department of Operations Management
Thammasat Business School
Thammasat University, Bangkok, Thailand

Global Manufacturing Award

Dr. Vichathorn Piyathanavong
School of Manufacturing Systems and Mechanical Engineering (MSME)
Sirindhorn International Institute of Technology (SIIT)
Thammasat University

Asia-Pacific Education Contribution Award

Professor Kou Yamada
Graduate School of Science and Technology
Gunma University, Japan

Distinguished Woman in Industry and Academia Award

Dr Araya Kongsoonthorn
Group Chief Executive Officer of WICE Logistics

Global Supply Chain Management Award

Dr. Sathaporn Opananon
Head of the International Business Logistics and Transport Department
Thammasat Business School
Chairman of the Board of Sino Logistics

Logistics Leadership Award

Udom Kongkakate
Senior Vice President for B2B2C Business
SCGJWD Logistics Public Company Limited (SJWD)

Logistics Best Practice Award

Mr. Chalernsak Karnchanawarin
Chairman Thai International Freight Forwarder Association (TIFFA)
ASEAN Federation of Forwarders Association (AFFA)

Transportation Best Practice Award

Dr. Jirarothe Sukolrat
Director-General
Office of Transport and Traffic Policy and Planning

Azhar Jaimurzina Ducrest
Chief, Transport Connectivity and Logistics Section, Transport Division
UNESCAP – United Nations Economic and Social Commission for Asia and the Pacific

Outstanding Teaching Award in Transportation

Asst. Prof. Dr. Tipavinee Suwanwong Rodbundith
Lecturer in Aviation Business Management Programme
Mae Fah Luang University
Chiang Rai, Thailand

Outstanding Teaching Award – OM

Dr. Komn Bhundarak
Assistant Professor, Operations Management Department
Thammasat Business School
Thammasat University

Distinguished Leadership Award

Professor Ruth Banomyong (PhD)
Professor and Head of the Center of Excellence in Connectivity
Thammasat Business School
Thammasat University, Bangkok, Thailand

Outstanding Student Award

Ms Natthamon Ngai
4th year logistics student
Natthamon Ngai, a 4th-year logistics student
Thammasat Business School
Thammasat University, Bangkok, Thailand

Competition Winners

Competition Winners - Onsite

Supply Chain and Logistics Competition sponsored by aThingz - Onsite

First Place

ID 392 From Waste to Value in Drilling Operations: MFA of PERTAMINA's Circular Uniform Upcycling Initiative
Dina Nurul Fitria, Research Professor, Agribusiness Department, Universitas Trilogi, Jakarta Selatan, Indonesia
Ade Barkah Darmond, External Affairs, PT Pertamina Drilling Services Indonesia, Jakarta Selatan, Indonesia

Second Place

ID 232 The weight management issue at BPCL Loni: Managing quality and compliance
Bhawna Priya, IIM Raipur, India

Third Place

ID 361 Optimizing Inventory Management Through Advanced Demand Forecasting: A Case Study of Tejas Networks
Telecommunications Component Supply Chain
Chinmaya Nadig, Department of Industrial Engineering and Management, RV College of Engineering, Bangalore, Karnataka, India
Ramaa A, Associate Dean, Placement and Training, Department of Industrial Engineering and Management, RV College of Engineering
Bangalore, Karnataka, India
Amogh R Naik and Tejas Pathak, Dept. of Industrial Engineering and Management, RV College of Engineering, Bangalore, Karnataka, India

IEOM FlexSim Student Simulation Competition – Winners – Onsite

1st Place: IE KU KPS 2
2nd Place: SRU LogNextgen
3rd Place: SCT-LOG Chan
4th Place: Three Poppy

| Place | Team Name | Institution | Faculty/Dept. | Member |
|--------|-------------------|--|---|--|
| First | IE KU KPS 2 | KasetsartUniversity, Kamphaeng Saen Campus | Faculty of Engineering at Kamphaeng Saen, Industrial Engineering | Samatchaya Rattanakorn Kullaporn Darachad |
| Second | SRU LogNextgen | Suratthani Rajabhat University | Faculty of management sciences, Logistics Management program | Varayut Chantharit Chutimon Phetsut Nopphadol Chamnanmol |
| Third | SCT-LOG Chan | RajamangalaUniversity of Technology Tawan-ok | Social Technology | Phatsachon Pundech Ananya Promtao Kanokporn Somboon |
| Fourth | Three Poppy | RajamangalaUniversity of Technology Phra Nakhon | Faculty of Engineering, Industrial Engineering | Aungsumaleepalla. Ajcharaphanpoolsurman Jantimalekdee |

IEOM FlexSim Student Simulation Competition - Honorable - Onsite

| Team Name | Institution | Faculty/Dept. | Member |
|-------------------------|--|---|---|
| JamiaX | Jamia Millia Islamia | Faculty of Engineering And Technology | Shafat Yousuf Danish Anwar Khan |
| AD | Government Engineering College -Kozhikode | Applied Electronics and Instrumentation | Asma Muhammed Zahid Devananda PR |
| Mission Impossible | Srinakharinwirot University | Faculty of Engineering, Department of Industrial and Logistics Engineering | KebtawanManok VititaChaovanasai Janejiramichartchawanan |
| SRU Evolution Logistics | Suratthani Rajabhat University | Faculty of management sciences, Logistics Management program | Kritsada Nopparat Thiradet Chufong Thiraphat Keawprasom |
| IE KU KPS-1 | KasetsartUniversity | Faculty of Engineering at Kamphaeng Saen, Industrial Engineering | Jirayu Sangnak Chirasak Khongsaenkham Wasika Sasuk |
| Data Sold Out | Mahidol University | Faculty of Engineering | Tanawat Wisedsin Suriyon Sirithummapiti |
| IE@PBRU | Phetchaburi Rajabhat University | Faculty of Engineering, Industrial Technology | NatthaponPrempree Sirimanipromsaart Sitthichai Panain |

Undergraduate Research Competition sponsored by Daikin Applied - Onsite

First Place

ID 402 Development of a 3-DOF Robotic Arm with Gesture-Based Control to Support Intelligent and Sustainable Additive Manufacturing Environment
T. W. Quan, T. W. Harnq, O. C. Jie, K. Zakaria, A.Z.A. Kadir, M. A. Suhaimi, M.F.A. Zaharuddin, R. Yasak and S. Sharif, J.M. Rohani, Faculty of Mechanical Engineering Universiti Teknologi Malaysia, 81310 Skudai, Johor, Malaysia

Second Place

ID 22 Applying Lean Six Sigma to Enhance Supply Continuity and Service Efficiency in a Quick-Service Bubble Tea Operation in Saudi Arabia
Abdulmohsen Alali, Sanad Tawili and Hasan Balfaqih, Operations and Supply Chain Management Department, Effat University, Jeddah, Saudi Arabia

Master's Thesis Competition - Onsite

First Place

ID 11 Discrete-Event Simulation for design of source-segregated waste collection system to maximize recycling rates: A case study of Vietnam National University Ho Chi Minh City Urban Area
Nguyen Le Minh Hoa, International University, Vietnam National University, Ho Chi Minh City, Vietnam

Undergraduate Student Paper Competition sponsored by Siemens - Onsite

First Place

ID 215 Circular Supply Chain Model for Reducing Food Waste in Local Bakery Industry: A Case Study in Yogyakarta Tourism SME's
Ahmad Arro'uf Sulfuadi, Muhamad Salimudin Paripurna and Dwi Adi Purnama, Industrial Engineering Department, Faculty of Industrial Technology, Islamic University of Indonesia, Yogyakarta, Indonesia

AI-ML Competition - Onsite

First Place

ID 225 The Indigestion Hypothesis: Benchmarking Linear vs. Non-Linear Models in M&A Value Creation
Aviral Tripathi, Undergraduate, Indian Institute of Technology Kharagpur, India
Monika Sharma, Doctoral Scholar, Vinod Gupta School of Management, IIT Kharagpur, India
Prof. Chandra Sekhar Mishra, Professor, Finance and Accounting, Vinod Gupta School of Management, IIT Kharagpur, India

Second Place

ID 92 Application for Generative AI tools in Project Management practices
Depesh Banik, Project Management Officer, Webb Fontaine, Dhaka, Bangladesh

Third Place

ID 99 XAI in Healthcare
Sanjog Ray, Associate Professor, Information Systems, Indian Institute of Management Indore, India

Human Factors and Ergonomics Competition - Onsite

First Place

ID 184 The Impact of Ultrasonic Scalers on Musculoskeletal Disorder Risk During Dental Prophylaxis Among Dentists in the Philippines
Shanel Faith J. Santos, Lizbeth A. Mariano, Mark Anthony M. Baldoz, Miguel Darwin DC. Lapitan and Stephanie Caridad DR. Landicho, Department of Industrial Engineering, College of Engineering and Agro-Industrial Technology, University of the Philippines, Los Baños, Laguna, Philippines

Second Place

ID 40 Human Factors in Safety Conversations: Why Communication Fails to Reduce Risk
Jelena Lezdkalne, University of Latvia, Faculty of Medicine and Life Sciences, Aspazijas blvd. 5, LV-1050, Riga, Latvia

Simulation Technical Paper Competition - Onsite

ID 200 Off-Road Hazard Map for Emergency Logistics in Island Regions

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

Poster Competition Winners - Onsite

Poster Competition Winners – Category I (Onsite)

First Place

ID 155 Reduce Waiting Times at Electric Truck Charging and Battery Swapping Stations Through Optimized Facility Layout Design: Case Study ABC Company
Phongchai Jittamai, Associate Professor, School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology Nakhon Ratchasima, Thailand
Anurak Chanchainanthawong, Department of Industrial Engineering, School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

ID 203 Case Study: Application of QR Codes to Develop a Storage System for Pipe Spools in an Erection Yard

Pavee Siriruk, Assistant Professor in the School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology Nakhon Ratchasima, Thailand
Somporn Phuangpan, Systems Engineering Program, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

Second Place

ID 183 Development of an Artificial Intelligence System for Insulation Condition Assessment in Generators

Ekkawat Kinnares, Systems Engineering Program, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

Nara Samattapong, School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

Third Place

ID 515 Green Public Market Buildings as Catalysts for Sustainable Urban Development: A Case Study of Green Buildings in Gianyar Regency, Bali, Indonesia

Ni Wayan Sawitri, Student of Master's Study Program in Infrastructure and Environmental Engineering, Postgraduate Faculty, Warmadewa University, Bali, Indonesia

Fourth Place

ID 128 Optimising Efficiency in Manufacturing Processes Through Lean Approaches

Nuranisah Binte Hassim, Undergraduate Student, Bachelor of Science (Honours) in Supply Chain Management, Minor in Human Resource Management, Singapore University of Social Sciences, Singapore

Miti Garg, Associate Faculty, School of Business, Singapore University of Social Sciences, Singapore

Poster Competition Winners – Category II (Onsite)

First Place

ID 350 Post-Harvest Inefficiencies and Downstream Value Concentration: A Field-Based Value Chain Analysis of Thailand's Cacao Sector

Naravid Tejavaniya, Student, Shrewsbury International School Bangkok, Bangkok, Thailand

Second Place

ID 190 Development of a Posture Assessment Model Using Computer Vision to Analyze Musculoskeletal Injury Risk in Truck Drivers in Conjunction with the Nordic Musculoskeletal Questionnaire

Phiraphat Senorit, Industrial Systems and Environmental Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand
Pornsiri Jongkol, Lecturer, School of Industrial Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

ID 374 Chronic Kidney Disease Risk Prediction through Nail Abnormalities Identification using AI Image Processing

Nunnaphat Wongsuwan, Anglo Singapore International School

Piratchaya Tanjapatku, International Community School

Nattanan Singahapanich, International Community School

Natwasa Singahapanich, International Community School

Third Place

ID 366 Digital Transformation in Automotive Parts Manufacturing: Optimizing Resource Consumption and Monitoring Systems via Google Workspace

Phattarawadee Tookokkrud, Systems Engineering Program, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

Nattawat Pinrath, Lecturer, School of Industrial Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

Fourth Place

ID 193 A Techno-Economic Feasibility Assessment of On-Grid Rooftop Solar PV Systems for Urban Office Buildings in Thailand

Pavee Siriruk, Assistant Professor, School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

Nakarin Ponpitak, School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

High School STEM Competition - Onsite

First Place

ID 338 Application of Cellulose Nanocrystals from Sugarcane Bagasse in Eco-Friendly Detergent Formulations

Nattaya Kamwilaisak, Hathaichanok Promboot and Kantaphat, Khon Kaen Wittayayon School, Thailand

Second Place

ID 301 Volatile Organic Compounds (VOCs) Biomarker-based Early Warning System for Spodoptera frugiperda Detection and Monitoring Using an Electronic Nose

Pinyada Kaewket, Purimphat Sangkeaw and Noppawat Sirinam, The Prince Royal's College, Thailand

ID 307 Biomass-Derived Self-Doped Porous Carbon from Durian Peels as Anode Materials for High-Performance Lithium-Ion Batteries

Nuchyada Kaewket, Nannapat Lertmanligaporn and Pitchayapa Khamklong, High school student, The Prince Royal's College, Thailand

Third Place

ID 138 Design and Pilot Evaluation of a Low-Cost IoT-Based System for Optimising Cacao Fermentation

Naravid Tejavaniya, Student, Shrewsbury International School Bangkok, Bangkok, Thailand

ID 279 Phytochemical Screening, Bioactive Compound Determination in Relation to the Ethnomedicinal Uses of Tambae (*Phyllanthus buxifolius*) on Indigenous People

Joshen Thirdy C. Espiritu, Student Researcher, Nueva Gracia National High School, Nueva Gracia, Loreto, Agusan del Sur, 8507, Philippines

Thalia Illinsky A. Pantaleon, Student Researcher, Nueva Gracia National High School, Nueva Gracia, Loreto, Agusan del Sur, Philippines

Noraine Yzabelle Espiritu Fuentes, Nueva Gracia National High School, Nueva Gracia, Loreto, Agusan del Sur, 8507, Philippines

Merie Jean M. Tabaque, Student Researcher, Nueva Gracia National High School, Nueva Gracia, Loreto, Agusan del Sur, 8507, Philippines

Hannah Marie B. Casal, Student Researcher, Nueva Gracia National High School, Nueva Gracia, Loreto, Agusan del Sur, 8507, Philippines

Rafy D. Doroteo, Student Researcher, Nueva Gracia National High School, Nueva Gracia, Loreto, Agusan del Sur, 8507, Philippines

Competition Winners - Virtual

Undergraduate Student Paper Competition sponsored by Siemens - Virtual

First Place

ID 416 An Integrated AHP–Mathematical Programming Approach for Make-or-Buy Decisions in Pile Driving Machine Components
Bilge Öztürk, Şevval Ertan, and Syed Shah Sultan Mohiuddin Qadri, Çankaya University, Turkey

Second Place

ID 69 Production Improvement Model to Increase Productivity by Applying SMED and Preventive Maintenance in a Pet Products Company
Fabián Mauricio Ching-Fung and Juan Carlos Egusquiza-Campana, Jorge Antonio Corzo-Chavez and Gino Viacava-Campos, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Peru

Third Place

ID 141 SmartFort: Joint Dispatch and Response Coordination of Public Service Resources Using Artificial Intelligence
Abdullah Mahmood Al Kindi, Department of Operations Management, College of Economics and Political Science, Sultan Qaboos University, Muscat, Oman

Undergraduate Research Competition sponsored by Daikin Applied - Virtual

First Place

ID 274 Critical Path Method and Economic Analysis of a Smart Leak Detection System for Desalination Water Networks in Saudi Arabia
Reem N Alsaadi, Asrar A Al-shahrani, Jawharah A Al-Qasebah, Manar M Al-shahrani, Retaj S Al-muawi, Rand S Shukban, Wed I Shufflout, Mays A Alshahrani and Ghaida N Alghamdi, Undergraduate Student in the Industrial Engineering, Department, College of Engineering, University of Bisha, Bisha 61922, Saudi Arabia
Khaled Ali Abuhasel, Full Professor in the Industrial Engineering Department, College of Engineering, University of Bisha, Bisha, Saudi Arabia

Second Place

ID 468 RAG-Enhanced Cognitive Intelligent Recommendation agent for Self-Evolving Failure recovery in Manufacturing system operations
Liuyang Shan and Roger Jiao, Georgia Institute of Technology, Atlanta, USA

High School STEM Competition - Virtual

First Place

ID 302 Quantum-Inspired Machine Learning for S&P 500 Price Movement Prediction
G. Kaushik Raj, Indian High School, Dubai, United Arab Emirates

Second Place

ID 310 An experimental study on optimizing adolescent reaction time through auditory frequency exposure, an investigation of low-cost cognitive performance optimization methods for adolescents (aged 15-16)
Harem Luo, BSJ, Indonesia

ID 344 Bacterial Cellulose Based Scaffolds for Controlled Oxygen Delivery in Low-Resource Regions
Aarna Dwivedi and Goutham Koppolu, United States

Third Place

ID 285 A.I.-Automated School Bag Car
Ma Tsz Kit, Middle School Student, Holy Cross Lutheran School, Hong Kong
Lam Lap Jip, STEM Teacher, Delft University of Technology, Delft, Netherlands
Cheung Mei Yin, Associate, Hong Kong University of Science and Technology (HKUST)

Master's Thesis Competition - Virtual

First Place

ID 196 Antecedents of Green Energy Transition Adoption: A Meta-Analytic Assessment
Marvin Perez, Master of Engineering in Electrical Engineering, Technological Institute of the Philippines, Quezon City, Philippines
Jaypy Tenerife, Industrial Engineering Department, Technological Institute of the Philippines, Quezon City, Philippines
Rowel Facunla, Electrical Engineering Department, Technological Institute of the Philippines, Metro Manila, Philippines

Second Place

ID 513 A Model for Controlling Cost, Schedule, and Quality during the Construction of Hook-Type Units at Resvara Residence, Tanah Lot, Bali
Komang Sandiaskara Wibawa, Student of Master's Study Program in Infrastructure and Environmental Engineering, Postgraduate Faculty, Warmadewa University, Bali, Indonesia

Graduate Student Paper Competition sponsored by Eaton - Virtual

First Place

ID 414 The Mid-Term Forecast of South Sulawesi's Renewable Energy Supply and Demand: An Application of Long-Range Energy Alternatives Planning
Arham, Master's Program in Systems Engineering, University of Gadjah Mada, Yogyakarta, Indonesia
Saiful. M, Master's Program in Systems Engineering, University of Gadjah Mada, Yogyakarta, Indonesia

Muhammad Taufiq, Master's Program in Systems Engineering, University of Gadjah Mada, Yogyakarta, Indonesia
Ahmad Agus Setiawan, Ph.D., Department of Nuclear Engineering and Engineering Physics, University of Gadjah Mada, Yogyakarta, Indonesia
La Ode Masri Ande Kolewora, Master's Program in Systems Engineering, University of Gadjah Mada, Yogyakarta, Indonesia
Virtuous Ikmal Wicaksono, Master's Program in Systems Engineering, University of Gadjah Mada, Yogyakarta, Indonesia

Second Place

ID 214 Blind Box as an Experience-Based Business Strategy for ASEAN SMEs: A Stimulus–Organism–Response Approach
Indah Sepwina Putri and Twin Yoshua R. Destyanto, Lecturer, Department of Industrial Engineering, Universitas Atma Jaya Yogyakarta, Yogyakarta, Indonesia
Azizah Nur Ilmi, Independent Researcher, Jakarta, Indonesia

Third Place

ID 157 Automation of Reporting System Using Visual Basic for Application Macro: A Case Study in an Insurance Company
I Gede Susastra Gunawan, Department of Industrial Engineering, Sampoerna University, South Jakarta 12780, Indonesia
Filscha Nurprihatin, Department of Industrial Engineering, Sampoerna University, South Jakarta 12780, Indonesia
Allexiee Antoinette Sumarlin, Department of Industrial Engineering, Sampoerna University, South Jakarta 12780, Indonesia
Rafie Djajasoepeña, Department of Information Systems, Sampoerna University, South Jakarta 12780, Indonesia
Williem, Department of Informatics, President University, Bekasi Regency 17530, Indonesia

Human Factors and Ergonomics Competition - Virtual

First Place

ID 186 Exploring the Reasons Behind Hard Hat Non-Compliance Among Filipino Site Workers: A Qualitative Study
Joshua Elydor M. Butaslac, Mechanical Engineering Department, Technological Institute of the Philippines, Quezon City, Philippines
Jaypy T. Tenerife, Industrial Engineering Department, Technological Institute of the Philippines, Quezon City, Philippines

Second Place

ID 313 Visual Fatigue and Digital Ergonomic Risks among University Students in Screen-Based Learning Environments: A Review
Nilufa Yeasmin, Arnab Laskar, Nayan Debnath Pranta, Mohammad Iqbal, and Salma Akhter, Shahjalal University of Science and Technology, Sylhet-3114, Bangladesh

Senior Design Project Competition - Virtual

First Place

ID 176 Optimization of Job Shop Scheduling Using Dispatching Rules and Genetic Algorithms: An Industrial Case Study at Al-Rayef Factory for Aluminum and Glass
Norah Saeed Abdullah Aseri, Hawazin Ali Dhafer Alqhtani, Dareen Ali Salem Al-Ahmari, Ghadi Abdullah Mohamed Al-Asmari and Waad Ali Talhan Al-Ahmari, Undergraduate Students, Industrial Engineering Department, King Khalid University, Abha, Saudi Arabia
Abir Mouldi, Assistant Professor, Industrial Engineering Department, King Khalid University, Abha, Saudi Arabia

Second Place

ID 283 Enhancing Inventory Efficiency in Specialized Warehouses through AI-Powered Computer Vision
Imen Rashid Bouazzi, Assistant Professor, Industrial Engineering Department, College of Engineering, King Khalid University, Saudi Arabia
Reema Abdulwahab Abumilham, Senior Student, Industrial Engineering Dept., College of Engineering, King Khalid University, Saudi Arabia
Alya Mohammed Qasim, Senior Student, Industrial Engineering Department, College of Engineering, King Khalid University, Saudi Arabia
Maha Farouq Alqahtani, Senior Student, Industrial Engineering Department, College of Engineering, King Khalid University, Saudi Arabia
Enas Khalid Awad, Senior Student, Industrial Engineering Department, College of Engineering, King Khalid University, Saudi Arabia

Lean Six Sigma Competition - Virtual

First Place

ID 208 Process Improvement of Academic Advising for Engineering Students with GPAX Below 2.00: A Case Study at Suranaree University of Technology
Natnalin Chijiraphowadon, Systems Engineering Program, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand
Pornsiri Jongkol and Rachaneekorn Polpattapee, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima, Thailand

Doctoral Dissertation Competition sponsored by Airbus - Virtual

First Place

ID 360 Depression, Anxiety, Stress, and Coping Mechanisms among Parents of Children with Autism Spectrum Disorder and Non ASD
Dasari Srija and Somashekar Naraganti, Research Scholar, Dept. of Psychology, Besti University, Andhra Pradesh, India

Second Place

ID 270 Psychological Capital in Adolescents of Alcohol Dependence Parents and Its Role in Academic Adjustment
Dasari Srija and Dr.K.B. Kumar, Research Scholar, Dept. of Psychology, Besti University, Andhra Pradesh, India

Supply Chain and Logistics Competition sponsored by a Thingz - Virtual

ID 289 A Digital Twin-Enabled Circular Economy Framework for Cost Optimization and Sustainability in the Tomato Supply Chain in the Aseer Region
Nermine A. Harraz, Professor, Department of Industrial Engineering, College of Engineering, King Khalid University, Abha, Saudi Arabia

Dalia Alqahtani, Lamar Alabedi, Atheer Alghamdi and Lujain Alawwad, Department of Industrial Engineering, College of Engineering, King Khalid University, Abha, Saudi Arabia

AI-ML Competition - Virtual

First Place

ID 491 Design Knowledge-Powered Graph Attention Network (GAT) for Performance Prediction of Signal Transmission Devices
Liuyang Shan, Roger Jiao and Francisco Fernandez De Castro Bobadilla, Georgia Institute of Technology, Atlanta, USA
Shu Wang, TE Connectivity, Mechanicsburg, Pennsylvania, USA

Second Place

ID 495 Semi-Automatic Segmentation Dataset Generation for Cable-Layer Measurement
Francisco Alyf Fernandez de Castro Bobadilla and Roger J. Jiao, George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, Georgia

Best Track Papers

| Track ID | Track name | Best Track Paper ID | Paper Title | Country |
|----------|---|---------------------|---|-------------|
| 1 | Artificial Intelligence and Data Science | 39 | Reconceptualizing Groundwater Assessment Through a Synergistic DEA–Machine Learning Intelligence Framework | Oman |
| 2 | Automation, Robotics and Autonomous Systems | 183 | Development of an Artificial Intelligence System for Insulation Condition Assessment in Generators | Thailand |
| 3 | Business Management and Operations Management | 216 | Beyond MAPE: Product Mix Deviation and Inventory Response in Hierarchical Demand Forecasting | Russia |
| 4 | Digital Manufacturing, Industry 4.0 and IoT | 145 | Deep Progressive Learning for Grain Boundary Segmentation and Grain Size Estimation Using CNN-Based Models | India |
| 5 | Engineering Education and Curriculum Improvement | 31 | Designing an Academic Progress Monitoring Information System for Engineering Education: A Case Study at UPLB | Philippines |
| 6 | Engineering Management and Project Management | 187 | Application of a Systematic Approach for Monitoring Between Foresight and PEP in the C2CBridge Project, | Germany |
| 7 | Entrepreneurship and Innovation | 93 | Enhancing Entrepreneurial and Digital Marketing Skills among High School Students through Project-Based Community Engagement: A Case Study in Indonesia | Indonesia |
| 8 | Facility Planning and Layout | 155 | Reduce Waiting Times at Electric Truck Charging and Battery Swapping Stations Through Optimized Facility Layout Design: Case Study ABC Company | Thailand |
| 9 | Human Factors, Ergonomics and Healthcare Systems | 184 | The Impact of Ultrasonic Scalers on Musculoskeletal Disorder Risk During Dental Prophylaxis Among Dentists in the Philippines | Philippines |
| 10 | Lean Six Sigma and Operations Excellence | 182 | Enhancing Production Efficiency and Waste Reduction in Medical Tube Extrusion through Self-Centering Die Design and Material Optimization | Thailand |
| 11 | Manufacturing, Assembly and Design | 29 | Design and Evaluation of Oven Type Furnace Using Earth Materials for Roasting Foods | Philippines |
| 12 | Quality, Reliability and Maintenance | 197 | Vision-Based Vibration Monitoring with Lighting Normalization and Fault Classification | Malaysia |
| 13 | Simulation, Optimization & Productivity Improvement | 293 | A Simulation-Based Analysis of Campus Characteristics and Free-Floating Bike-Sharing System Design on Accessibility and Usage | Japan |
| 14 | Supply Chain and Logistics | 398 | Improvement Process to Increase Inventory Turnover through Random Forest and Slotting in a Solar Water Heater Trading Company | Peru |
| 15 | Sustainability, Green Systems and Energy | 365 | A Structured Method for Energy Performance Evaluation within ISO 14001 Environmental Management Systems | Italy |
| 16 | Case Studies and Best Practices | 185 | Study of Odor Nuisance and Mitigation Measures for Cup Lump Rubber Used in Rubber Manufacturing Plants | Thailand |

