



2023 IEOM Manila Awards

13th International Conference on Industrial Engineering and Operations
Management, Hilton Hotel, Manila, Philippines

Fellows

1. Dr. Grace Mukondeleli Kanakana-Katumba, Executive Dean, Faculty of Engineering and the Built Environment, Tshwane University of Technology, Montana, Pretoria, South Africa
2. Dr. Jafri Mohd. Rohani, Associate Professor, Materials, Manufacturing & Industrial Engineering, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Malaysia
3. Dr. Lianfeng (Linda) Zhang, Professor, IESEG School of Management, Paris, France
4. Dr. Mario Chauca, Professor, Department of Industrial Engineering, Universidad Ricardo Palma, Santiago de Surco, Lima, Peru
5. Dr. Mario Fargnoli, Associate Professor, Universitas Mercatorum, Rome, Italy
6. Dr. Mohammad Shamsuzzaman, Professor, Department of Industrial Engineering and Engineering Management, College of Engineering, University of Sharjah, UAE
7. Dr. Mohammed Manzoor Hussain, Registrar, Professor, Department of Mechanical Engineering, Jawaharlal Nehru Technological University (JNTU), Hyderabad, Telangana, India
8. Dr. Paul Ako, Head, Department of Mechanical Engineering, University of Nigeria, Nsukka, Nigeria
9. Dr. Rosemary Seva, Professor, Department of Industrial Engineering, Gokongwei College of Engineering, De La Salle University, Manila, Philippines

Outstanding Researcher Award

Dr. M. Manzoor Hussain
Registrar
Professor, Department of Mechanical Engineering
Jawaharlal Nehru Technological University (JNTU)
Hyderabad, Telangana, India

Distinguished Industry Achievement Award

Mr. Jeremy Lim
Business Process Transformation Vice-President
Robotic Process Automation (RPA) and Workflow Program Lead
Robinsons Bank Corporation
Manila, Philippines

Innovation Award

Mr. Dominic Ligot
Founder and Chief Technology Officer
CirroLytix
Manila, Philippines

Global Manufacturing Award

Joyce Ramos
Senior Vice President
Head of Country and Business Development
LF Logistics Philippines
Manila, Philippines

Global Engineering Education Award

Dr. Mohammad T. Khasawneh, Ph.D.
SUNY Distinguished Professor
Chair, Systems Science and Industrial Engineering
Associate Director, Watson Institute for Systems Excellence
Director, Healthcare Systems Engineering Center
Graduate Program Director, Executive Master of Science in Health Systems
Thomas J. Watson School of Engineering and Applied Science
State University of New York at Binghamton
Binghamton, New York 13902, U.S.A.

Global Supply Chain and Logistics Award

Rai Antonio De Jesus, MBA, CPSM®
VP & Group Head of IT Procurement
PLDT
Manila, Philippines

Renee Desquitado
Operations and Supply Chain Leader
Eaton Corporation
Calabarzon, Philippines

Global Business Management Award

Albert Wee Kwan Tan, PhD
Associate Professor
Academic Program Director, Online Master in Business Administration
Asian Institute of Management (AIM)
Manila, Philippines

Dr. Ayham Jaaron
Senior Lecturer in Business and Management
De Montfort University
Leicester, UK

Industry Solutions Award

Bryan Jay Capistrano, IE, MSc. in IEM
Senior Process Engineer
Toyota Motor Philippines Corporation
Manila, Philippines

Industry 4.0 Award

Dr. Marcelo Ang
Professor of Control & Mechatronics
National University of Singapore
Singapore

Lean Six Sigma Award

Felix Concepcion Veroya
Founder & CEO
Ask Lex PH Academy
3F BitSpace, Citywalk Building, Darasa, Tanauan City, Batangas,
Philippines

Curriculum Development Award

Prof. Edgardo Atanacio
Chair, Technical Committee for Industrial Engineering, Commission on Higher Education

Women in Academia Award and Distinguished Professor Award

Prof. Ts. Dr. Massila Kamalrudin
Vice Chancellor
Universiti Teknikal Malaysia Melaka (UTeM)
Hang Tuah Jaya, Durian Tunggal
Malacca, Malaysia

Women in Industry and Academia Award

Dr. Cecilia Carlos
Senior Vice President for Finance and Administration
Mesaland Development Company, Inc.
Makati City, Philippines

Dr. Marilyn Mabini
Professor of Industrial Engineering
University of Santo Tomas
Manila, Philippines

Dr. Aura Matias
Professor, Department of Industrial Engineering and Operations Research
UP Diliman, Philippines

Dr. Venusmar Quevedo
Vice President for Administrative Affairs
Adamson University
Manila, Philippines

Outstanding Teaching Award

Ir. Rosnani Ginting, MT, Ph.D, IPU, ASEAN Eng.
Head of Graduate Program of Industrial Engineering
Department of Industrial Engineering, Faculty of Engineering
Universitas Sumatera Utara, Indonesia

Outstanding Teaching Award in SCM

Dr. Anak Agung Ngurah Perwira Redi
Interim Head of Industrial Engineering Study Program
Sampoerna University, Jakarta, Indonesia

Outstanding Professor Award

Prof Dr. Ir. Frans Jusuf Daywin
Tarumanagara University, Indonesia

Service Award

Dr Adianto, MSc
Tarumanagara University, INDONESIA

IEOM Distinguished Service Award

Dr. Rafaelita “Fita” M. Aldaba, Undersecretary for the Competitiveness and Innovation Group
Philippine Department of Trade and Industry (DTI), Manila, Philippines

Engr. Rodel Emmanuel Adviso
Philippine Institution of Industrial Engineers

IEOM Society Outstanding Service Award

Dr. Rosemary Seva (De La Salle University)
Dr. Charlle Sy (De La Salle University)
Dr. Joehanna Ngo (University of Santo Tomas)
Dr. Josefa Angelie Revilla (University of the Philippines-Los Banos)

Giselle Joy Esmeria (De La Salle University)
Lourdes Lasian (Adamson University)
Michelle Adiwang (Saint Louis University)
Nanette Salazar (University of San Jose Recoletos)
Regine Tejada (University of the Philippines-Diliman)

IEOM Student Chapter Faculty Advisor Award

Prof. Rene D. Estember - Faculty Advisor
School of Industrial Engineering and Engineering Management
Mapua University, Manila, Philippines

Engr. Ryan Jeffrey Curbano - Faculty Advisor
IEOM Student Chapter at LPU Laguna, Philippines

Engr. Dyan G. Rodriguez, MSIE, PIE, ASEAN Engr. - Faculty Advisor
IEOM Student Chapter at Integrated Students of Industrial Engineering, Bulacan State University, Philippines
IEOM ISIE-BuISU Student Chapter

Dr. Miriam F. Bongo - Faculty Advisor, IEOM DLSU Chapter
Associate Professor, Department of Industrial & Systems Engineering
De La Salle University, Manila City, Philippines

Engr. Sheila Mae C. Carungay, PIE- Faculty Advisor
Adviser, Industrial Engineering Department, Adamson University, Manila, Philippines

Student Academic Excellence Award

Ms. Cristina Beatrice Mallari, DLSU
Mr. Aaron William Sy, DLSU
Kianna Denise Villapando, Mapua University

Outstanding Student Leadership Award

Chapter President: Ms. Aubrey Dadulo, IEOM DLSU Student Chapter
Chapter President: Christian Loui D.L. Correa, IEOM ISIE-BuISU Student Chapter
Chapter President: Allysya Mae M. Castillo, IEOM Mapua University Student Chapter
Chapter President: Nomiel Castillo, IEOM Student Chapter at LPU Laguna, Philippines
Chapter President: Julia Kate Culong, Industrial Engineering Department, Adamson University, Manila, Philippines

Competition Winners

Undergraduate Student Paper Competition (Virtual)

First Place

ID 427 A Sustainable Supplier Selection Adapting Triple Bottom Line Framework for The Construction Industry using Multi-Criteria Decision-Making

Aubrey A. Angeles, Aprile C. Ilano, Darwyn P. Ong, Vince B. Reoyan and Gabriel C. Bucu, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Second Place

ID 94 Production Management Model to Reduce Production Costs Using the SLP Technique in the Curtain Making Process: Textile Sector Case

Renzo Sebastián Bernalda Vara and Raúl Alejandro García Ruiz, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Perú
Carlos-Augusto Lizárraga-Portugal, Research Professor, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Perú

Third Place

ID 92 A Logistic Regression Model to Predict the Induction of Professional Baseball Players into the Hall of Fame

Jesús Adrián Betancourt Ferreira, Daniela Chaveznavia Soto, Sofía Juárez Garza and Debanie Alejandra García Bustos, Undergraduate Student

Department of Computer and Industrial Engineering, Universidad de Monterrey, San Pedro Garza García, NL 66238, México
Fernando González-Aleu, Associate Professor and Researcher, Department of Computer and Industrial Engineering, Universidad de Monterrey

San Pedro Garza García, NL 66238, México

Jesús Vázquez-Hernández, Professor, Advisor, and Researcher, Department of Master's in Engineering Management, Instituto Tecnológico y de Estudios Superiores de Monterrey, San Pedro Garza García, NL 66238, México

ID 583 A PDCA Approach on Determining Factors to Increase the Profit Contribution of the IT Department of a Local Online Delivery Service Company

Alexa Mae I. Manrique, Aliyah Geeña L. Naldoza, Mae Angelica S. Salonga, and Maxine Hannah S. Villanueva, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila 1008, Philippines
Charlie A. Marquez, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila 1008, Philippines

Undergraduate Paper Competition (Onsite)

First Place

ID 589 Service Efficiency Analysis of the Outpatient Department (OPD) of a public hospital in the Philippines by Service Quality Model and Queuing Theory

Essey Misaki V. Andres, Franz C. Dator, Pamela Rose A. Juan, Joeyette Therese E. Macato and John Carl R. Mendevil, Industrial Engineering Department, Technological Institute of the Philippines, Manila, Philippines
Janina Elyse A. Reyes, Industrial Engineering Department – Adviser, Technological Institute of the Philippines, Philippines

Second Place

ID 553 Ergonomically Designed Fishing Equipment to Improve the Occupational Safety and Health Among Fisherfolks at Jala-Jala, Rizal

Gallardo, Christine Joy B., Oliveros, Zina Marie G., Ople, Vazh Chloey V., Protacio, Etthandan Zeus C. and Sibulan, Kenneth Dane S., Industrial Engineering Department, Technological Institute of the Philippines – Manila
Janina Elyse A. Reyes, Industrial Engineering Department, Technological Institute of the Philippines- Manila

Third Place

ID 558 Risk assessment in health systems for COVID-19

Betül Avcı, School of Engineering and Natural Sciences, Industrial Engineering, Istanbul Medipol University, Beykoz, Istanbul, Turkey
Özgür Erol Yeşilsirt, Professor, Department of Industrial Engineering, Istanbul Medipol University, Beykoz, Istanbul, Turkey

Undergraduate Research Competition (Virtual)

First Place

ID 505 Establishing a Predictive Model on Internet Service Provider Preference of Work-From-Home (WFH) Employees Based on Customer Satisfaction on The Leading Internet Service Providers

John Depp C. Adorna, Cheska Nicole A. Cuevas, Eunice Jessica M. Fernandez, Zaver JB S. Pascual and Carlos Ignacio Jr. P. Lugay, Department of Industrial Engineering, University of Santo Tomas, España Blvd, Sampaloc, Manila, 1008 Metro Manila, Philippines

Second Place

ID 110 A Comparative Analysis on the Effectiveness and Cost of Homemade Calamansi (Citrofortunella microcarpa)-Vinegar Solution and a Commercially-Known Fabric Softener

Renz Martin Barrozo, Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines
Andrea Lorize D. Mendoza, Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines
Vinz Adrienne Oliveros, Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines
Josiah Victor Ramos, Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines
Maximillian Yleandre Yanez, Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines
Carlos Ignacio P. Lugay Jr., Phd, Pie, Asean Engr., Assoc. Prof., Department of Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines

ID 376 Re-engineering of Gold Precious Metal Production Process in Mining Companies

Achmad Gunawan Wibisono, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, Indonesia

Third Place

ID 504 A SERVQUAL Approach to Improving the Railway Experience amidst Pandemic using Multi-Criteria Decision Making

Engr. Gabriel C. Bucu, Professor of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Manila, Philippines
Xinjin Kendrick Araos, Ralph Erickson Balbin, Arjay Paul Dequito and Marcus Jericho Pineda, Industrial Engineering Department, Faculty of Engineering, University of Santo Tomas, Manila, Philippines

Undergraduate Research Competition (Onsite)

First Place

ID 670 Use of Taguchi Method-Based Design of Experiments (DOE) in the Optimization of the Drilling Parameters of Structural A572 Steel

Guia Lorraine R. Ong, Johan Mikaela A. Simon, Jonah Marie T. Chan, Warren Miguel G. Benito, and Nestor R. Ong, Department of Industrial Engineering, University of Santo Tomas, Manila, Philippines

Second Place

ID 172 Redesigning Electronic Recruitment Platform to Optimize the Utilization of the Users in the Philippines: Applying Ordinal Regression Analysis

Lovynne Claire Montojo, Monessa Sales, John Carlo Ydel, John Carlo Sicat, Laurice Gonzales and Ma. Teodora Gutierrez, Technological Institute of the Philippines, Philippines

Third Place

ID 26 A New Approach to Evaluate the Impact of SNS on Market

Kenshiro Tammachi, Advanced Course in Production Systems Engineering, Salesian Polytechnic, Machida, Tokyo, Japan

Yoichi Shimakawa, Department of Computer Science and Technology, Salesian Polytechnic, Machida, Tokyo, Japan

Taiki Otsuka, Faculty of IT and Business, Cyber University, Fukuoka, Japan

Hiroyuki Goto, Department of Industrial and Systems Engineering, Hosei University, Tokyo, Japan

Graduate Student Paper Competition

First Place

ID 268 The Evaluation of Station Workload Through the Application of Work-Study Principles: A Case Study in The Automotive Industry

Kemlall R. Ramdass, Professor of Industrial Engineering, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa

Fulufhelo P. Doyoyo, Student of Industrial Engineering, Department of Industrial Engineering, University of South Africa, Roodeport, South Africa

Bongumenzi T Mncwango, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

Second Place

ID 348 Optimization Strategy for User Acquisition of Financial Digital Apps in Indonesia Largest MSMEs Bank

Kevin Prasetyo and Yenita, Faculty of Economics and Business, Universitas Tarumanagara, Jakarta, 11440, Indonesia

Third Place

ID 248 Examining the Influence of Interruptions in Online Learning on Student's Perceptions and Comprehension

Adva Epstein, Industrial and Management Department, Sami Shamoon College of Engineering (SCE), Ashdod, Israel

Sagit Kedem-Yemini, Logistics Department, Sapir Academic College, Sderot, Israel

Adi Katz, Industrial and Management Department, Head of YOUsability, the usability center in SCE, Sami Shamoon College of Engineering (SCE)

Ashdod, Israel

Master Thesis Competition

First Place

ID 145 Effectiveness of Reliability and Asset Lifecycle Management Practices in Railway Traction Substation

Thabo Madonsela, Bheki Makhanya and Jan-Ham Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

Second Place

ID 503 Analysis on Driving Safety of Syiah Kuala University Students of Human and Vehicle Factors

Suci Qurratul Aini, Master of Civil Engineering, Faculty of Engineering, Universitas Syiah Kuala, Banda Aceh, Indonesia

Yusria Darma, Rennu Anggraini and Sugiarto, Department of Civil Engineering, Faculty of Engineering, Syiah Kuala University, Banda Aceh, Indonesia

Third Place

ID 511 Motorcyclist Driving Behavior Analysis

Mutia Irani, Postgraduate of Industrial Engineering Student, University of North Sumatra, Medan, Indonesia

Rahim Matondang, Professor of Industrial Engineering, Faculty of Engineering, University of North Sumatra, Medan, Indonesia

Listiani Nurul Huda, Lecturer of Industrial Engineering, Faculty of Engineering, University of North Sumatra, Medan, Indonesia

Doctoral Dissertation Competition

First Place

ID 237 A Biomimetic Framework for Evaluating the Functional Trait Diversity and Adaptive Capacity of the Firm

Manuel Christian Orias, PhD Student, Industrial Engineering, De La Salle University, Manila, Philippines

Second Place

ID 634 Exploring the Link Between Organization Justice and Turnover Intentions: Evidence from The Higher Education

Noor Azlina Yusoff, Student of Doctor Philosophy, Faculty of Business, Economics and Social Development, University Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Universiti Sains Malaysia, Penang, Malaysia

Yusliza Mohd Yusoff, Professor of Business, Economics and Social Development Faculty, University Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

Third Place

ID 633 In bojongsari district, depok west java, a strategy for implementing the blue economy concept in the neon tetra ornamental fish cultivation group

Harlis Setiyowati, Pradita University, Indonesia

Mulyanto Nugroho, University of 17 Agustus 1945 Surabaya, Indonesia

Senior Design Project / FYP Competition

First Place

ID 620 Garbage Collection Vessel

Natasya Riana, Rafael ThreeGoenawan, Ammarullah Widjnyaka Digda, Lina Gozali, and Erwin Siahaan, Mechanical and Industrial Engineering, Universitas Tarumanagara, Indonesia

Second Place

ID 669 An Application of the Vehicle Routing Problem Model to a Local Company in Kuwait

Lara Kakouly, Noura Al-Mansour, Zain Alsabeeh, Hessa Aldeghaishem, Reem Almutairy, and Magdy Helal, College of Engineering and Technology, Industrial Engineering Department, American University of the Middle East, Eqaila, Kuwait

Third Place

ID 707 Redesign Glass Cut Process to Increase Production Capacity at Window Manufacturing Company (WMC), Puerto Rico

Adiary Vicéns Agosto, Julio E. Rodríguez Colón and Jannette Pérez-Barbosa, Department of Engineering, Universidad Ana G. Méndez, Gurabo, Puerto Rico 00778, USA

ID 586 Market Research for Multifunction Salon Cabinet

Jennifer Juyanto, Elizabeth Clara Santoso, Mario Ajipangestu, Lina Gozali, Frans Jusuf Daywin, I Wayan Sukania, Wilson Kosasih, Adiando, Carla Olyvia Doaly, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

Maitri Widya Mutiara, Interior Design Department, Universitas Tarumanagara, Jakarta, Indonesia

Human Factors and Ergonomics Competition

First Place

ID 546 Ergonomic Assessment of Copra Cake Manual Material Handling Process: A Basis for the Design of an Ergonomic Equipment

Roland Emerson Mabuting, Dr. James Louie R. Meneses and Laurence Binasa, College of Engineering, Manuel S. Enverga University Foundation, Lucena City, Quezon, Philippines

Second Place

ID 674 Factors Affecting Employee Retention In The Philippine Business Process Outsourcing Industry: Integrating Job Embeddedness Theory

Yoshiki B. Kurata, Kervin Victor S. Belisario, Mariah Mervette D. Mescala, and Rafael Lorenzo L. Valenzuela, Department of Industrial Engineering, University of Santo Tomas, España Blvd, 1015, Manila, Philippines

Third Place

ID 554 Relieving the Pain: An Ergonomic Analysis of Low Back Pain among Tricycle Drivers in the Vicinity of University of Santo Tomas-Manila

Ruth Dorothy G. Dela Cruz, Cherry Rose V. Estrada, Honey Katrieze A. Lastimososa and Kaye C. Valdezotto, Student of Industrial Engineering

Faculty of Engineering, University of Santo Tomas, Manila, Philippines

Lean Six Sigma Competition

First Place

ID 5 Production Planning and Inventory Control Using Odoo Open Source ERP Simulation in PT. XYZ

Vanessa Angelica Budiono, Lina Gozali, I Wayan Sukania and Katya Victory Liu, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

Second Place

ID 139 Planning Production and Inventory Control in Managing Bullwhip Effect at Electronics Industry

Stiven Tjen, Lina Gozali, Helena Juliana Kristina, and Victor Imanuel, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

Third Place

ID 617 Improving the Efficiency of Teamwork Using Online Kaizen Workshop During COVID -Case of Assertive Community Treatment

Marzieh Ghiyasinab, Postdoctoral fellow, Canada

Samira Keivanpour, Professor, Department of Mathematical and Industrial Engineering, Polytechnique Montreal, Montréal, Canada

Simulation Competition

First Place

ID 660 Springbed Production Floor Relay Layout Using SLP, CORELAP, CRAFT, and BLOCPAN Methods with Promodel and FlexSim Simulations

Geraldo Rafael, Christyfanie Elva Angelica, and Natasia Aurelia, Industrial Engineering Department, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia

Lamto Widodo, Adianto, and Lina Gozali, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia

Second Place

ID 3 Safety Stock and Inventory Control in System Dynamics Modeling at PVC Industry

Thomson Richard, Lina Gozali and Frans Jusuf Daywin and Ricky Farrel, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

Third Place

ID 208 Optimal Buffers Allocation in an Inter-facility Material Transfer System Modelled as a Closed Queueing Network and Analysed Through a Simulation-Optimisation Approach

Mohamed Amjath, PhD Student, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar

Laoucine Kerbache, Professor, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar; and HEC Paris

Adel Elomri, Assistant Professor, Division of Engineering Management and Decision Sciences, College of Science and Engineering, Hamad Bin Khalifa University, Doha, Qatar

James MacGregor Smith, Professor, Dept. of Mechanical and Industrial Engineering, University of Massachusetts, Amherst, MA, USA

Supply Chain and Logistics Competition

First Place

ID 548 Soft Drink Supply Chain Sustainability in Kuwait

Kawthar Fadhullah, Souad Alothman, Fayi Malallah, Daniah Albahouh, Fay AlSanae and Abdullah S. Karamanf, College of Engineering and Technology, American University of the Middle East, Kuwait

Second Place

ID 220 A Comprehensive Evaluation Framework for Assessing Vaccine Supply Chain Performance Using Real Time Data

Pratik Rai and Sasadhar Bera, Department of Operations Management, Indian Institute of Management Ranchi, Ranchi, India

Shiv Charan Banerjee, National Informatic Center, Ministry of Electronics and Information Technology, Government of India

Third Place

ID 545 A Conceptual Model for Developing a Selection Error Measurement Method to Measure the Effectiveness of the Time Series Forecasting Method

Nattavadee Mahanil and Premporn Khemavuk, Department of Industrial Engineering, Faculty of Engineering, King Mongkut's University of Technology North Bangkok, Bangkok, 10800, Thailand

Best Track Papers

Business Analytics Track Best Paper

ID 58 Customer Churn Prediction using Predictive Analytics: Basis for the Formulation of Customer Retention. Strategy in the Context of Web-based Collaboration Platform

Neil T. Awit, College of Business Administration, Lyceum of the Philippines University, Manila, Philippines

Ramon M. Marticio, Higher Education Department, University of Santo Tomas- Angelicum College, Quezon City, Philippines

Business Management Track Best Paper

ID 700 Competency and Innovation on Street Vendors.

Susi Desmaryani, Research and Development Agency, Jambi Province. Indonesia and Lecturer at Faculty of Economics and Business, Muhammadiyah University, Jambi Indonesia

Mardianis Mardianis, Research and Development Agency, Jambi Province. Indonesia

Case Studies Track Best Paper

ID 560 Productivity of Academic Personnel across universities in implementing the Tridharma PT and supporting the Indonesian Government's MBKM program

Sri Wiwoho Mudjanarko, Departement of Civil Engineering, Narotama University, Surabaya, 60117, Indonesia

Ninis Trisyani, Departement of Fishery, Faculty of Marine Technology and Science, UHT, Surabaya, Indonesia

Agus Budianto, Departement of Chemical, Institut Teknologi Adhi Tama Surabaya, Indonesia

I Putu Artaya, Departement of Management, Narotama University, Surabaya, Indonesia

Nawir Rasidi, Departement of Civil Engineering, Politeknik Negeri Malang (Polinema), Malang, 65141, Indonesia

Zulkifli Iubis, Departement of Civil Engineering, Universitas Islam Lamongan, East Java, Indonesia

Dadang Supriyatno, Departement of Civil Engineering, Universitas Negeri Surabaya, Indonesia

Hendramawat Aski Safarizki, Veteran Bangun Nusantara University, Sukoharjo, Indonesia

Rizal Bahaswan, Departement of Civil Engineering, Narotama University, Surabaya, 60117, Indonesia

Mayastuti, Student Doktorat, Management, Airlangga University

Mohd Haziman Wan Ibrahim, Department Jabatan Kejuruteraan Awam, Universiti Tun Hussein Onn Malaysia, Malaysia

Mohd Fadzil Bin Arshad, Departement of Civil Engineering, Universiti Teknologi Mara, Malaysia

Firdaus Pratama Wiwoho, Faculty of Civil and Environmental Engineering's Master Program, Institut Teknologi Bandung, Indonesia

Data Analytics and Big Data Track Best Paper

ID 21 Modeling the relationship between Overtime Rate and Manufacturing KPIs: A Case Study in the OSAT Manufacturing Company using CRISP-DM

Jonathan D. Mondero, Associate Professor, College of Business Administration and Accountancy, Graduate Studies in Business, De La Salle University – Dasmariñas, Cavite, Philippines

Jonathan Anthony C. Ac-ac, College of Computer Studies, Graduate School, De La Salle University, Manila, Philippines

Shenalie M. Lopena, College of Computer Studies, Graduate School, De La Salle University, Manila, Philippines

Christopher Josh A. Cuevas, College of Engineering, University of Santo Tomas, Manila, Philippines

Engineering Economy Track Best Paper

ID 438 Valuation of Mini Hydropower Plant in Indonesia by Considering the Effect of Risk Factors using Value at Risk Approach

Muhammad Fakhri Pratama and Armand Omar Moeis, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Depok, 16424, Indonesia

Engineering Education Track Best Paper

ID 236 The Use of Collaborative Intervention to Reduce the Depression and Anxiety of Students with Learning Difficulties

Jean R. Baloloy, Public Schools District Supervisor, Schools Division Office of Albay, Department of Education, Region 5, Philippines

Rodel E. Pancho, Education Program Supervisor, Schools Division Office of Sorsogon Province, Department of Education, Region 5, Philippines

Human Factors and Ergonomics Track Best Paper

ID 554 Relieving the Pain: An Ergonomic Analysis of Low Back Pain among Tricycle Drivers in the Vicinity of University of Santo Tomas-Manila

Ruth Dorothy G. Dela Cruz, Cherry Rose V. Estrada, Honey Katrieze A. Lastimoso and Kaye C. Valdezotto, Student of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Manila, Philippines

Inventory Control Track Best Paper

ID 83 Joint Replenishment Dealing with Various Inventory Policies

Victor Suhandi, Ph.D. Candidate, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Chungli, Taoyuan, Taiwan and Lecturer, Department of Industrial Engineering, Universitas Kristen Maranatha, Bandung, Indonesia

Ping-Shun Chen, Professor, Dept. of Industrial and Systems Engineering, Chung Yuan Christian University, Chungli, Taoyuan, Taiwan

Lean Track Best Paper

ID 170 Productivity Improvement of Coal Barge Loading Conveyor using Lean Concept: A Case Study in Coal Mining Industry

Selamat W. Hia, Graduate Student, Management and Technology, Institut Teknologi Sepuluh November, Surabaya, Indonesia

Logistics Track Best Paper

ID 2 An Empirical Investigation of Factors Affecting Humanitarian Logistics Operations: The Case of Palestine

Rafat Mahmoud Kittaneh, Executive Engineer, Institutional Development Unit, An-Najah National University, Nablus, West Bank, Palestine
Ayham A.M. Jaaron, Senior Lecturer in Business and Management, School of Leadership, Management and Marketing, The Centre for Enterprise and Innovation, Leicester Castle Business School, De Montfort University, Leicester, LE2 7BY, United Kingdom

Machine Learning Track Best Papers

ID 410 Laser Cutting Time Estimate for Sheet Metal Parts of Various Geometries by Machine Learning Approach

Yearn-Tzuo (Andrew) Hwang, Department of Mechanical Engineering, National Yang Ming Chiao Tung University, Hsinchu, Taiwan
Jun-Min Yang, Taiwan Semiconductor Manufacturing Company, Hsinchu, Taiwan

ID 529 The Use of Machine Learning in Supply Chain Management - A Systematic Review

Hossein Soltani and Pawan Bhandari, Dept. of Manufacturing Engineering Technology, Minnesota State University, Mankato, MN, USA

Manufacturing Track Best Paper

ID 9 Utilizing DMAIC Process to Identify Successful Completion of SRAD Phases of Waterfall Development

Niamat Ullah Ibne Hossain, Alexandr M. Sokolov, Tim Petersen and Brian Merrill, Engineering Management and Construction Management, College of Engineering and Computer Science Arkansas State University, State University, AR 72467, USA

Modeling and Simulation Track Best Paper

ID 329 Solar Technology Enabled Operational Robot: An Interconnected Cybernetics System with (IoV) and Multidisciplinary Implementation for an Intelligent Robot Control and Monitoring System

Abdullah All MamunAnik, Military Institute of Science and Technology, Bangladesh

Occupational Safety and Health (OSH) Track Best Paper

ID 519 Effects of Prolonged Sitting Posture on Neck and Shoulder Joints During Occupational Driving: Human Ergonomic Simulation Software

Aisha Ali Hasan Mohamed Dhaiban, MSc. Student, Department of Industrial Engineering, Khalifa University, Abu Dhabi, UAE
Areej Mabrouk Abdrabo Bin Amro, MSc. Student, Department of Industrial Engineering, Khalifa University, Abu Dhabi, UAE
Saed Amer, Faculty Member, Industrial and Systems Engineering Department - Khalifa University, Abu Dhabi, United Arab Emirates

Operations Management Track Best Paper

ID 19 Analysis of ore quality influence on crusher energy efficiency

Mpho Selepe and Joe Amadi-Echendu, Department of Engineering and Technology Management, University of Pretoria, South Africa

Production Planning and Control Track Best Paper

ID 264 Aggregate Production Planning with Organizational Learning and Social Sustainability Considerations – Current Gaps and Future Opportunities

Mostafa Tarek, Ahmad E. Elhabashy, Hadi Fors and M. Hamdy Elwany, Production Engineering Department, Alexandria University, Alexandria 21544, Egypt

Sustainable Manufacturing Track Best Paper

ID 86 Sustainable Operations in Paper and Pulp Industry: Analysis of Challenges

Biswaksen Mishra and Rajesh Kumar Singh, Management Development Institute, Gurgaon, India

Sustainability and Green Systems Track Best Paper

ID 371 Passive Design Approach to Improve Energy Efficiency for Office Building

Muhammad Tarique Lakhari, Shalini Sanmargaraja, AbdulLateef Olanrewaju and Chong Hooi Lim, Faculty of Engineering and Green Technology, Universiti Tunku Abdul Rahman, Jalan Universiti Bandar Barat, 31900, Kampar Perak, Malaysia
Vignes Ponniah, Faculty of Science and Engineering, Manchester Metropolitan University, United Kingdom

Service Systems and Service Management Track Best Paper

ID 480 Designing an Inventory Management System for Convenience Store X Using Design Thinking Approach

Ann Kathryn T. Laping, Charmaine Anne R. Mendoza, Keith Nathan L. Tiulentino and Ryan Mikael M. Villaraza, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines
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Supply Chain Management Track Best Paper

ID 557 Employing the Internet of Things to Attain Resilience across Supply Chain

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Teaching and Learning Track Best Paper

ID 222 Using Place-Based Outdoor Learning (PBOL) Teaching Model in Promoting Students' Conceptual Understanding of Ecological Concepts

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Technology Management Track Best Paper

ID 702 How Do Trucking Carriers Differ from Third-Party Logistics, Couriers, and Private Fleets in their Resilience?

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