



IEOM Society

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2023 IEOM Lisbon Awards

6th European International Conference on Industrial Engineering and Operations Management, Doubletree by Hilton Lisbon Fontana Park, Portugal

<http://ieomsociety.org/ieom/awards/>

Distinguished Industry Leadership Award

João Paulo Ribeiro
Senior Vice President of Manufacturing and Supply Chain
Visteon, Portugal

António Novais
Managing Director
Palmetal / Thyssenkrupp Group
Portugal

Luis Lopes Pereira
Country Director of Medtronic Portugal
Lisbon, Portugal

Distinguished Academic Leadership Award

Prof. Virgílio Cruz Machado
Dean and Professor, Nova School of Science and Technology - FCT NOVA
Universidade NOVA de Lisboa
Caparica, Portugal

Dr. António Grilo
Presidente da Agência Nacional de Inovação, Portugal
Full Professor in Industrial Engineering and Management, NOVA School of Science and Technology,
Caparica, Portugal

Distinguished Industry Achievement Award

Vânia Gomes
Director of Quality and Food Safety and Assistant to the production management
Chocolates Excelsior Company
Lisbon, Portugal

Outstanding Researcher Award

Prof. Jürgen H. Lenz
Research Professor
Augsburg Technical University of Applied Science
Nördlingen, Bavaria, Germany

Distinguished Educator Award

Professor Ramón Barber Castaño
Director of the Master in Industrial Engineering
Universidad Carlos III de Madrid, Spain

Javier Ribera Regal
Coordinator of Industrial Doctorates
Escola de Doctorat de la Universitat de València
46010, València, Spain

Distinguished Professor Award

Dr. José Fernando Oliveira
Full Professor and Head of the Department of Industrial Engineering and Management
Faculty of Engineering
University of Porto
Porto, Portugal

Dr. Ricardo J. Machado
Full Professor of Information Systems Engineering at the University of Minho
Founder & Scientific Coordinator of the SEMAG (Software-based Information Systems Engineering and Management) R&I group of the ALGORITMI Research Centre
President of the CCG/ZGDV Institute and of the DTx Digital Transformation CoLab

Outstanding Professor Award

Dr. João Matias
Full Professor
Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT)
Universidade de Aveiro
Portugal

Dr. Luís Ferreira
Professor, Faculty of Science and Technology
Universidade Coimbra
Portugal

Outstanding Professor in Operations Management Award

Dr. Ana Paula Póvoa
Full Professor in Operations and Logistics
Engineering and Management Department
Instituto Superior Técnico (IST)
University of Lisbon
Portugal

Outstanding Professor in Ergonomics Award

Prof. Dr.-Ing. Verena Nitsch
University Professor
Director, Institute of Industrial Engineering and Ergonomics
RWTH Aachen University, North Rhine-Westphalia, Germany
Head of the Product and Process Ergonomics Department, Fraunhofer Institute for Communication, Information Processing and Ergonomics FKIE

Teaching, Learning and Assessment Award

Dr. Krzysztof Nowacki
Head of the department
Department of Production Engineering (RM1)
Faculty of Faculty of Materials Engineering
Silesian Technical University, Katowice, Poland

Diversity, Equity, and Inclusion Award

Stela Suils Cuesta Shihab
Diversity, Inclusion & Belonging Consultant
Founder & DEI Practitioner, Diversitude
Associate Director of Diversity and Inclusion, CollectiveUP
Lisbon, Portugal

Industry Solutions Award

Cristina Barros
CEO, SINMETRO Lda
Leiria, Portugal

Engineering Education Award

Dr. Carina Pimentel
Assistant Professor in Industrial Engineering
Department of Production and Systems
University of Minho, Portugal

Global Engineering Education Award

Dr. Bill Williams
Senior Associate Editor at the Journal of Engineering Education
Associate Editor at the European Journal of Engineering Education
Adjunct Senior Research Fellow, TU Dublin
Researcher, CEGIST | Centre for Management Studies of Instituto Superior Técnico, Lisbon, Portugal Moita,
Setúbal, Portugal

Professor Min Xie
Chair Professor of Industrial Engineering
Department of Systems Engineering
City University of Hong Kong
Hong Kong SAR, China

Global Business Management Award

Dr. Armindo Frias
Commander at Portuguese Navy. PhD in Management
Professor in the Portuguese Naval Academy
Lisbon, Portugal

Manufacturing Engineering Education Award

Dr. Alexandra Tenera
Assistant Professor
Department of Mechanical and Industrial Engineering
NOVA School of Science and Technology

Universidade NOVA de Lisboa
Portugal

Global Supply Chain and Logistics Award

António Pita
Transportation and Supply Chain Manager and Consultant
Germany

Healthcare Improvement Award

Dr. Gerard O'Connor
Adelaide and Meath Hospital
Retired - Tallaght University Hospital
Dublin, Ireland

Innovation Award

Carlos Guilherme Frias
Innovation Digital Transformation Leader & Product Owner
Millennium bcp
Lisboa, Portugal

Sustainability Award

Dr. Inês A. Ferreira
Invited Assistant Professor
ISEG, Lisbon School of Economics & Management
Portugal

Industry 4.0 Award – Digital Transformation

Luís Bastos
Digital Industries Country Head
Siemens Portugal
Amadora, Lisbon, Portugal

Data Analytics Award

Dr. Hamed Gholami
Asst. Professor of Industrial Engineering
Mines Saint-Étienne
France

Lean Six Sigma Award

Pedro Monteiro
Operational Excellence Manager for Europe, Asia and New Zealand, Allied Motion Technologies
Founder and Editor, theleanmag
Associate Founder, projectoSONAR
Porto, Portugal

Operations Excellence Award

Amanda Breeden, MA, MA
Board Member and Director of Communications, Colorado Lean Network
Sr. Director, Office of Research, Denver Health & Hospital Authority
Denver, Colorado, United States

Eduardo Sousa
CI Coach - Operations Excellence
Galp
Lisbon, Portugal

Distinguished Leadership Award

Dr. Susana Duarte
Assistant Professor, UNIDEMI
Dept. of Mechanical and Industrial Engineering
NOVA School of Science and Technology
Universidade Nova de Lisboa (FCT NOVA)
Caparica, Portugal

Dr. Helena Carvalho
Associate Professor
Coordinator of Master's in Maritime Logistics
Vice Director of UNIDEMI
Department of Mechanical and Industrial Engineering
NOVA School of Science and Technology
Universidade Nova de Lisboa (FCT NOVA)
Caparica, Portugal

Outstanding Student Chapter Faculty Advisor Award

António João Pina da Costa Feliciano Abreu, PhD
Associate Professor with Habilitation
Coordinator of the MSc in Industrial Engineering and Management
Department of Mechanical Engineering
ISEL – INSTITUTO SUPERIOR DE ENGENHARIA DE LISBOA
R. Conselheiro Emídio Navarro 1
1959-007 Lisboa, Portugal

Outstanding Student Chapter Leadership Award

Vicente Murjal
President, IEOM ISEL Student Chapter
Department of Mechanical Engineering
ISEL – INSTITUTO SUPERIOR DE ENGENHARIA DE LISBOA
R. Conselheiro Emídio Navarro 1
1959-007 Lisboa, Portugal

Cláudia Sofia Basílio Estudante
President, IEOM FCT Student Chapter
UNIDEMI, Department of Mechanical and Industrial Engineering
NOVA School of Science and Technology
Universidade NOVA de Lisboa
Caparica, Portugal

Outstanding Student Conference Volunteer Leadership Award

NOVA School of Science and Technology, Universidade NOVA de Lisboa, Caparica, Portugal

- Mariana Faria
- André Rosa
- Cláudia Estudante
- António Benoliel

- Diogo Fonseca
- Joana Sardinha
- Francisco Amaro
- Rodrigo Soares
- Rita Pina
- Francisco Levi Merlo
- Mónica Gamboleiro

Universidade de Aveiro, Portugal

- Prabalta Rijal

Competition Winners

Undergraduate Student Paper Competition Sponsored by Siemens

First Place

ID 205 Machine Learning-Based Forecasting of Ambulance Arrivals: Insights for Shift-Based ED Resource Allocation

Jordan Larot, Dang Minh Nhu Nguyen, Likhitha Yelamanchili, Evelyn Tran, Egbe-Etu Etu and Imokhai Tenebe, San Jose State University, San Jose, CA, 95192, USA

Satheesh Gunaga, Department of Emergency Medicine, Henry Ford Wyandotte Hospital & Envision Healthcare, Wyandotte, MI, USA

Joshua Emakhu, Joseph Miller, Department of Emergency Medicine, Henry Ford Health, Detroit, MI, USA

Onome Edo, Department of Information Systems, Auburn University at Montgomery, Montgomery, AL, USA

Second Place

ID 216 Optimization of Economic Viability for Meat Alternatives

Helen Zhong, The Estée Lauder Companies Inc., Markham, Ontario, Canada

Bedis Elkamel, Department of Health Sciences, University of Central Florida, Orlando, Florida, USA

Tong Li Han, Toyota Motor Manufacturing Canada, Woodstock, Ontario, Canada

Gholamreza Zahedi, Beyond Meat, Food and Beverage Services El Segundo, California, USA

Third Place

ID 8 Electromagnetic Performance Analysis of Electrically Excited and Interior Permanent Magnet Motor for Electric Vehicle Application

Tieu Xuan Hoang, and Nguyen Huu Duc, Electric Power University, Vietnam

Bui Minh Dinh, Hanoi University of Science and Technology (HUST), Vietnam

ID 281 Exploring Innovative Solutions for Enhancing Warehouse Management Efficiency

Sura Alharthy, Middle East College, Oman

Supply Chain and Logistics Competition

First Place

ID 290 Moving from STEM to STEAM

Kandis Boyd Wyatt, American Public University, United States

Second Place

ID 103 Leagility in the Healthcare Research - A Systematic Literature Review

Xueying LI, PhD student in Strategy and Entrepreneurship, Business Research Unit (BRU-IUL), Iscte - Instituto Universitário de Lisboa
Lisbon, Portugal

Ana Lúcia Martins, Associate Professor in Operation Management, Integrated Researcher at Business Research Unit (BRU-IUL), Iscte - Instituto Universitário de Lisboa, Lisbon, Portugal

Third Place

ID 271 The Impact of Supply Chain Management on South African Local Government Municipalities' Financial Performance

Ernest Lasie Mgidi, University of Johannesburg, South Africa

Professor Pule Kholopane, University of Johannesburg, South Africa

ID 381 Evaluating the Efficiency of a Procurement Process at an Institution of Higher Learning

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

Kemlall Ramdass, Professor in Industrial Engineering, University of South Africa, Johannesburg, South Africa

ID 226 The last-mile distribution of fresh e-commerce logistics: Case Study in Guiyang, China

Yuechen Chen, International Logistics and Supply Chain Management, School of Management, Mae Fah Luang University, ChiangRai, Thailand

Sunida Tiwong, Logistics and Supply Chain Management, School of Management, Mae Fah Luang University, ChiangRai, Thailand

Graduate Student Paper Competition sponsored by Eaton

First Place

ID 367 First-Come, First-Serve? Gig Worker Performance and Task Allocation in an On-demand Platform

Reeju Guha, PhD Candidate, Operations Management, IE Business School, IE University, Madrid, Spain

Second Place

ID 274 Design and Operation of a GPT-powered Smart Manufacturing System

Yiyun Fei, Shu Wang and Mulang Song, School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA

Jianxin (Roger) Jiao, Associate Professor of Mechanical Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA

Third Place

ID 113 Towards Data-Driven, Sustainable Supply Chain Quality Management 5.0 Indicators

Joana Lazzaris, Department of Production and Systems, School of Engineering, University of Minho, Braga, Portugal

André M. Carvalho, Department of Mechanical and Industrial Engineering, NOVA School of Science and Technology, NOVA University Lisbon, Caparica, Portugal

Maria Sameiro Carvalho, Department of Production and Systems, School of Engineering, University of Minho, Braga, Portugal

Master's Thesis Competition

First Place

ID 270 Digital Twin Enhanced Smart Assembly System Design and Analysis for Resilient Operations

Mulang Song, Ph.D. Candidate of Mechanical Engineering, Georgia Institute of Technology, Atlanta, USA

Shu Wang, Ph.D. Candidate of Mechanical Engineering, Georgia Institute of Technology, Atlanta, USA

Yiyun Fei, Ph.D. Candidate of Mechanical Engineering, Georgia Institute of Technology, Atlanta, USA
Jianxin (Roger) Jiao, Associate Professor of Mechanical Engineering, Georgia Institute of Technology, Atlanta, USA

Second Place

ID 463 Maintenance Optimization Model of a Railway Workshop Incorporating Opportunistic Maintenance

Md. Ariful Alam and Md. Rafiquzzaman, Department of Industrial Engineering and Management, Khulna University of Engineering & Technology, Khulna, Bangladesh

Third Place

ID 104 Consumer Behavior Towards Consumption, Disposal, and Awareness of Household E-waste: A Study in Portugal

Giulia Molinari, Department of Business and Management, Luiss University, Italy

Fourth Place

ID 360 Application of Statistical Process Control for Monitoring the Administered Dose in PET/CT Nuclear Medicine Examinations

Joana Carmelo, Research Fellow, Department of Mechanical & Industrial Engineering, NOVA School of Science and Technology, Caparica, Portugal

Ana Sofia Matos, Associate Professor in Industrial Engineering and Management, Department of Mechanical & Industrial Engineering, NOVA School of Science and Technology, Caparica, Portugal

Vanessa de Sousa and Gabriela Cardoso, Hospital Physician, Nuclear Medicine Department, Hospital Garcia de Orta, E.P.E., Almada, Portugal

Ana Isabel Santos, Director of Nuclear Medicine Department, Hospital Garcia de Orta, E.P.E., Almada, Portugal

High School STEM Competition

First Place

ID 159 Predictive Analysis of Invasive Plants

Nicholas Lu, Student, The Haverford School, Haverford, PA 19041, United States

Second Place

ID 273 CRISPR solution to cure Acute Myeloid Leukemia

Shrinidhi Kulkarni, International Academy East, United States

Senior Design Competition sponsored by Tooling Tech Group

First Place

ID 330 E-Commerce Optimal Packaging Project

Alara Kumru, Kerem Tuna, Berfin Kondakcı, Efe Doğruer, Şevval Berksöz and Onat Gürcanok, Ozyegin University, Department of Industrial Engineering, Faculty of Engineering, Turkey

Lean Six Sigma Competition sponsored by Tooling Tech Group

First Place

ID 275 Utilizing the DMAIC Methodology to Drive a Built-In-Quality Changeover Process in a Thermoforming Line for an Automotive Component Manufacturer

Edward Sontaga Makua, Department of Industrial Engineering, Durban University of Technology, Durban, South Africa

Mendon Dewa, Lecturer, Durban University of Technology, Durban, South Africa

Second Place

ID 219 Reducing Waste in The Production of Agricultural Machinery Parts: Case Study Manufacturing Process of Collar A Tractor Parts

Natthanicha Jantree, System Engineering Program, School of Industrial Engineering Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima Province, Thailand

Jongkol Srithorn, System Engineering Program, School of Industrial Engineering Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima Province, Thailand

Third Place

ID 208 Improve Process to Reduce Wastes in Production: Case Study of Agricultural Machinery Parts Manufacturing Company

Juthamat Khamboonngam, System Engineering Program, School of Industrial Engineering Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima Province, Thailand

Jongkol Srithorn, System Engineering Program, School of Industrial Engineering Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima Province, Thailand

Doctoral Dissertation Competition

First Place

ID 262 The Impact of Logistics Service Provider Integration on Manufacturing Company Competitiveness

Ana Isabel Bento, Luís Miguel D. F. Ferreira and Gabriela Fernandes, University of Coimbra, CEMMPRE, ARISE, Department of Mechanical Engineering, Polo II, Coimbra, 3030-788, Portugal

Second Place

ID 181 Improved Dynamic Latent Variable Modeling for Process Monitoring and Diagnosis

Haitian Zhang, PhD Candidate in the Department of Chemical Engineering, University of Waterloo, Canada

Qinqin Zhu, Assistant Professor in the Department of Chemical Engineering, University of Waterloo, Canada

Ali Elkamel, Full Professor in the Department of Chemical Engineering, University of Waterloo, Canada

Third Place

ID 260 Supply Chain Responsiveness: Dimensions, Relationships and Impact on Performance

Carla Cruz and Luís Miguel D. F. Ferreira, University of Coimbra, CEMMPRE, ARISE, Department of Mechanical Engineering, Polo II, Coimbra, 3030-788, Portugal

Undergraduate Research Competition sponsored by Daikin Applied

First Place

ID 241 Optimizing Nurse and Dialysis Unit Scheduling for Hemodialysis Patients

Bedis Elkamel, Department of Health Sciences, University of Central Florida, Orlando, Florida, USA

Second Place

ID 366 Re-engineering Arnis Sticks Bag for CTU-MC Martial Artists Using Design Thinking Principle

John Cadogdog, Cebu Technological University-Main Campus, Philippines

Third Place

ID 440 Awareness of e-waste management and disposal practices among engineering students in South India

S.M.Hasanuddin, Student, Methodist College of Engineering and Technology, Hyderabad, India
Qutubuddin S.M., Associate Professor, P.D.A. College of Engineering, Kalaburagi, India
Ayesha Fatima, Student, Stanley College of Engineering and Technology for Women, Hyderabad, India
Saheba Aijaz, Student, Stanley College for Women, Hyderabad, India
Namra Mahveen and Umaira Shahneen, Student, P.D.A.College of Engineering, Kalaburagi, India

Fourth Place

ID 298 Consumer Preferences: Sensory Attributes of Sea Urchin Chips

Abatayo, Sarah Jane; Armenton, Exchel; Misa, Philbert And Pastor, Lainesie, Cebu Technological University – Main Campus, Department of Industrial Engineering, M.J. Cuenco Ave., Cor. R. Palma Street, Cebu City, Cebu

COVID-19 Analytics Competition

First Place

ID 223 The adoption of Industry 4.0 in Moroccan industrial companies to overcome the crisis Covid-19

Mephtaha Guennoun, PhD student, Engineering, Systems and Applications Laboratory, ENSA, Fez, Morocco
Fatima Bennouna, Professor, Engineering, Systems and Applications Laboratory, ENSA, Fez, Morocco

Second Place

ID 235 A Review of Employees Training and Development in Navigating through Pandemic Covid-19: Malaysian Perspective

Ahmed Saleh Ahmed Saif Al-Shameri, Siti Sarah Omar and Sharaf Al-Azam, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia
Mahdi Mohammed Abdullah Abkar, Faculty of Civil Engineering and Built Environment, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia
Talaat Hassan Alhaj Ali Alawadhi, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Johor, Malaysia

Third Place

ID 105 Optimizing the Implementation of Sustainable Green Construction Strategies Post the Covid-19 Pandemic in Jakarta

Yenita, Faculty of Engineering, Universitas Tarumanagara, Letjen S. Parman No. 1 West Jakarta, Indonesia

Simulation Competition

First Place

ID 258 Interlaminar Stresses in Hemp Reinforced Composite Laminates

Som R. Soni, AdTech Systems Research Inc., 1342 North Fairfield Road, Beavercreek, Ohio 45432, USA
Craig Schluttenhofer and Subramania I. Sritharan, Agricultural Research and Development Program (ARDP), College of Engineering, Science, Technology and Agriculture, Central State University, 1400 Brush Row Road, Wilberforce, OH 45384, United States

Second Place

ID 148 A Data-driven Approach for PID's Tuning in Energy-intensive Industry: Application to Evaporator in Kraft Pulp Mill

Haitian Zhang, PhD Candidate in the Department of Chemical Engineering, University of Waterloo, Waterloo, Canada

Mohamed El Koujok, Research Scientist in Energy Efficiency and Technology Dept, Canmet ENERGY-NRCAN in Varennes, QC, Canada

Qinqin Zhu, Assistant Professor in the Department of Chemical Engineering, University of Waterloo, Canada

Hakim Ghezzaz, Process Engineer in Energy Efficiency and Technology Department, Canmet ENERGY-NRCAN, Varennes, Qc, Canada

Ali Elkamel, Full Professor in the Department of Chemical Engineering, University of Waterloo, Canada

Third Place

ID 329 Innovative Students-Based Course Project Methodology for Modeling and Simulation of Industrial Systems

Faris Ashraf, Ahmed Mohsen, Mohamed Salhen and Ahmed Shaban, Mechanical Engineering Department, Faculty of Engineering, Fayoum University, Fayoum 63514, Egypt

Poster Competition - Onsite

First Place

ID 93 Operational Risks Evaluation in Cement Industry using Bayesian Network with Uncertainty

Khaled Ali Abuhasel, Full Professor in Mechanical Engineering Department-Industrial Engineering Program, College of Engineering

University of Bisha, Bisha 61922, Saudi Arabia

Mohammed Alquraish, Associate Professor in Mechanical Engineering Department-Industrial Engineering Program, College of Engineering, University of Bisha, Bisha 61922, Saudi Arabia

Second Place

ID 350 Information and Digital Technologies of Industry 4.0 as Enablers of a Sustainable Supply Chain

Lesther Pachely Flores, University of Jaén, Jaén, Spain

Juan Manuel Maqueira-Marín, José Moyano-Fuentes and Diéssica de Oliveira-Dias, Department of Business Organization, Marketing and Sociology, University of Jaén, Jaén, Spain

Third Place

ID 161 Leveraging Operations Research to Improve Outpatient Chemotherapy Management: A Data-Driven Research

Majed Hadid, HBKU, Qatar

Fourth Place

ID 320 Industry 4.0 paradox

Dennis Chapman and Han Zhang, Coventry University, United Kingdom

Human Factors and Ergonomics Competition sponsored by CINTAS

First Place

ID 269 Dynamic Task Allocation for Human-automation Symbiosis with an Application to Medical Product Assembly

Shu Wang, Mualng Song and Yiyun (Cindy) Fei, School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA, USA

Dandan (Emily) Zhang, Fellow and Director of TE Connectivity, Shanghai, China

Nagi Z. Gebraeel, Professor of H. Milton Stewart School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, GA, USA

Roger J. Jiao, Associate Professor of School of Mechanical Engineering, Georgia Institute of Technology, Atlanta, GA 30332, USA

Second Place

ID 177 Analyzing the Benefits of Incorporating Human Factors in Socio-Technical Systems

Mfundo Nkosi, University of Johannesburg, South Africa

Third Place

ID 64 Relationship between Ergonomic Assessment and Physical Discomfort of Workers in the Twining Process

Ma. Concepcion D. Marchan, James Louie R. Meneses, Hannah P. Santonil, Rendell Neil S. Ogis, and Leonito G. Magkulang, College of Engineering, Manuel S. Enverga University Foundation, Lucena City, Quezon, Philippines

Fourth Place

ID 65 Ergonomic Risk Assessment of LPG Hose Handling Process at a Gantry Operation: A Basis for Administrative and Engineering Improvement

Mc Ronel P. Olivario, Dr. James Louie R. Meneses, Ramil Joshua L. Peñamante, Bryan Dave G. Bermundo and Engr. Gervin S. Espinosa, College of Engineering, Manuel S. Enverga University Foundation, Lucena City, Quezon, Philippines

Doctoral Dissertation Competition - Onsite

First Place

ID 82 A Waste to 3D Printing: the development of additive symbiotic networks

Inês A. Ferreira, PhD Student, Department of Mechanical & Industrial Engineering, NOVA School of Science and Technology, Caparica, Portugal
Helena Carvalho, Associate Professor, Industrial and Management Engineering, UNIDEMI – Department of Mechanical and Industrial Engineering, NOVA School of Science and Technology, Caparica, Portugal

Second Place

ID 303 Big Data Analytics for Financial Decision Making by Small and Medium Scale Enterprises in South Africa

Lawrance Seseni, Faculty of Engineering and the Built Environment, Postgraduate School of Engineering Management, Department of Quality and Operations Management, University of Johannesburg, Auckland Park, South Africa

Charles Mbohwa, Faculty of Engineering and the Built Environment, Postgraduate School of Engineering Management, Full Professor in Department of Quality and Operations Management, University of Johannesburg, Auckland Park, South Africa

Nelson Sizwe Madonsela, Faculty of Engineering and the Built Environment, Postgraduate School of Engineering Management, HOD of Department of Quality and Operations Management, University of Johannesburg, Auckland Park, South Africa

Third Place

ID 228 Building an Interoperable, Open, and Patient-Centric Global Architecture for Personal Health Data Management

Ricardo Silva Ribeiro, Ph.D. student in the Doctoral Programme of the Department of Mechanical & Industrial Engineering, NOVA School of Science and Technology, Caparica, Portugal

Aneesh Zutshi Assistant Professor, Department of Industrial Engineering and Management at NOVA University Lisbon, Portugal

UNIDEMI, Department of Mechanical and Industrial Engineering, NOVA School of Science and Technology, Caparica, Portugal

Laboratório Associado de Sistemas Inteligentes, LASI, Guimarães, Portugal

Fourth Place

ID 418 Embedding Small-Scale Poultry Producers into Sustainable Supply Chain Management: A South African Perspective

Sebonkile Thaba, Lecturer for Supply Chain Management, Department of Transport and Supply Chain Management, University of Johannesburg, Johannesburg, South Africa

Charles Mbohwa and Nelson Madonsela, Department of Quality and Operations Management, University of Johannesburg, Johannesburg, South Africa

Undergraduate Student Paper Competition - Onsite

First Place

ID 3 Evaluating the effectiveness on AR filters: The mediating role of technology acceptance, customer satisfaction, loyalty, and behavioral intention

Young Tsz Ting Angela, Au Mei Yan and Luk Kwok To, Department of Industrial and Systems Engineering, Faculty of Engineering, The Hong Kong Polytechnic University, Hung Hom, HKSAR, CHINA

C.K.M. LEE, Associate Professor, Department of Industrial and Systems Engineering, Faculty of Engineering, The Hong Kong Polytechnic University, Hung Hom, HKSAR, CHINA

Second Place

ID 108 Simulation of the Environmental and Socio-economic Impact from the Lithium Industry within Producing Countries

Carlos D. López, Ma. Fernanda Reyes, Constanza J. Martínez and José D. Morcillo, Ph.D., School of Engineering and Technology, Universidad de Monterrey, Monterrey, Mexico

Undergraduate Research Competition - Onsite

First Place

ID 4 Study of how the experience and behavior of consumers are affected by user experience (UX) design in the online fashion retailing industry

AU Mei Yan, YOUNG Tsz Ting Angela and YEH Mau Wong, Department of Industrial and Systems Engineering, Faculty of Engineering, The Hong Kong Polytechnic University, Hung Hom, HKSAR, CHINA

C.K.M. LEE, Associate Professor, Department of Industrial and Systems Engineering, Faculty of Engineering, The Hong Kong Polytechnic University, Hung Hom, HKSAR, China

Graduate Student Paper Competition - Onsite

First Place

ID 98 From Concept to Industry: Implementation of a Capability Roadmap and Strategy Development Towards Quality 4.0

Ana Rita Dias, School of Engineering, ALGORITMI Research Centre/LASI, University of Minho, Braga, Portugal

André M. Carvalho, Assistant Professor, NOVA School of Science and Technology, NOVA University Lisbon, Caparica, Portugal

Pedro Domingues, Principal Researcher, School of Engineering, ALGORITMI Research Centre /LASI, University of Minho, Braga, Portugal

Paulo Sampaio, Associate Professor with Habilitation, School of Engineering, ALGORITMI Research Centre /LASI, University of Minho, Braga, Portugal

Second Place

ID 106 The role of digital technologies in the development of resilient and sustainable supply chains

Paulo Alexandre Pereira, Full-time Phd student at Iscte Business School, Business Research Unit (BRU-IUL), Iscte - Instituto Universitário de Lisboa, Lisboa, Portugal and Researcher at INESC TEC, Porto, Portugal
Ana Lúcia Martins, Associate Professor in Operations Management at Iscte Business School, Integrated Researcher at Business Research Unit (BRU-IUL), Iscte - Instituto Universitário de Lisboa, Lisboa, Portugal
Ricardo Augusto Zimmermann, Senior researcher at INESC TEC, Porto, Portugal

Supply Chain and Logistics Competition - Onsite

First Place

ID 197 Process improvement for the manufacture of excavator bucket for a construction equipment manufacturer

M. Mdletshe, Department of Industrial Engineering, Durban University of Technology, South Africa