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2025 IEOM South American Awards – Industrial Engineering and Operations Management International Conference **Sorocaba, Sao Paulo, Brazil, May 13-15, 2025. Venue: Facens University**

Distinguished Industry Leadership Award

Claudio Castro
Director of Research and Development,
Schaeffler Latin America
Sorocaba, São Paulo, Brazil

Distinguished Academic Leadership Award

Prof. Dr. Patricia Klahr
Director
Facens University
Sorocaba, SP, Brazil

Industry Best Practice Award in Logistics

Adilson Spolidoro
Diretor Técnico – Divisão Biscoito
M Dias Branco Ind. e Com. de Alimentos
SP, Brazil

Distinguished Professor Award

Prof. Luciano Freire
Pro-Rector
Facens University
Sorocaba, SP, Brazil

Outstanding Researcher Award

Paulo A. Cauchick-Miguel, PhD (The University of Birmingham)
Graduate Program of Production Engineering, Federal University of Santa Catarina, Florianópolis, SC, Brazil
Graduate Program of Production Engineering, Polytechnique School, University of São Paulo, São Paulo, SP, Brazil

Dr. Takaaki Ohishi
Professor, Faculdade de Engenharia Elétrica e de Computação
State University of Campinas (UNICAMP)

Outstanding Professor Award

Dr Guilherme F. Frederico, PhD
Professor of Operations, Supply Chain and Project Management
Universidade Federal do Paraná
Curitiba e Região, Brasil

Prof. Dr. Nilo Antonio de Souza Sampaio

Universidade do Estado do Rio de Janeiro
Rio de Janeiro State University, Brazil

Dr. Christian Trapp
Professor of Powertrain Technologies
University of the Bundeswehr Munich
Neubiberg, Bavaria, Germany

Woman in Industry and Academia Award

Evelyn Ramos
Professor in Undergraduate and Postgraduate Engineering courses
Facens
Sorocaba, Sao Paulo, Brazil

Industry Best Practice Award

Johana Delgado
Bachelor of Science in Industrial Engineering
Research And Development Engineer
UCAB - Universidad Católica Andrés Bello
Caracas, Venezuela

Industry 4.0 Award

Dr. Antonio Carlos Gomes Junior
Diretor Indústria & Serviços
Head Indústria & Tecnologias 4.0
Facens University
Soroca, SP, Brazil

Project Management Teaching Award

Dima Jawad
Associate Professor, Department of Mechanical and Manufacturing Engineering
Faculty of Engineering and Applied Science
Ontario Tech University, Oshawa, Canada

Lean Six Sigma Award

Dr. Anibal Azevedo
Professor, School of Applied Sciences
University of Campinas
Campinas, SP, Brazil

Outstanding Professor in Applied Optimization and Statistics

Dr Hugo A. Pérez-Vicente
Professor of Industrial Engineering
Department of Chemical, Industrial and Food Engineering
Universidad Iberoamericana, Mexico City, Mexico

Young Research Professor Award

Dr. Alexander Semenov
Research Assistant Professor
Department of Industrial and Systems Engineering
University of Florida
Gainesville, Florida, United States

Outstanding Teaching Award in Operations Management

Dr. Ahmed Hamzi
Department of Industrial Engineering
College of Engineering and Computer Science
Jazan University, Saudi Arabia

Outstanding Global Engineering Education and Learning Award

M.Sc. Ginamaria Garcia Garces
Directora de la carrera de Ingeniería Industrial
Departamento de Ciencias Exactas e Ingeniería
Universidad Católica Boliviana
Sede Académica de Cochabamba, Bolivia

Outstanding Professor in Manufacturing Systems Award

Dr. Eng. Federico Walas Mateo
Professor in Integrated Manufacturing Systems
Universidad Nacional Arturo Jauretche, Argentina
CEO and Founder of Chaska Analytics

Outstanding Professor Award

Dr. Martín Enrique Durán García
Profesor Asociado / Director
Departamento de Tecnología Industrial
Universidad Simón Bolívar
Sartenejas, Miranda, Venezuela

Data Analytics Best Practice Award

Maldonado Calixto
Consultor - Ing. en sistemas de Información
Argentina

AI in Education Award

Jonas Vieira
Founder of FALA, an EdTech startup
Sao Paulo, Brazil

Outstanding Teaching Award in Energy

Prof. Felipe Ramos
Postgraduate Course of Industry 4.0.
Federal Institute of São Paulo, Sorocaba, Brazil

Outstanding Teaching Award

Cristian Rincón-Guio
Professor of Industrial Engineering
Corporación Universitaria Politécnico Grancolombiano
Bogotá, Colombia

Global Supply Chain Management Award

Dr. Rohit Kapoor
Professor in Operations Management and Quantitative Techniques
Indian Institute of Management, Indore, India

Distinguished Conference Leadership Award

Dr. Rodrigo Luiz Gigante
Coordinator of Production Engineering
FACENS University, Sorocaba, Sao Paulo, Brazil

IEOM Society Outstanding Leadership Award

Vitor Mendes Caldana
Federal Institute of Sao Paulo (IFSP)
Sorocaba Campus, Sao Paulo, Brazil
Director of IEOM South America Operations

Outstanding Conference Service Award

Marcela Spinosa Pereira
Events Analyst
Facens University, Sorocaba, Brazil

Outstanding Student Academic Excellence Award

Miguel Batista Heitor, Facens
Larissa Cristina, IFSP
Julia Moraes, IFSP

Outstanding Student Award

Gabriela Pereira
Estágio em engenharia de qualidade
Bosch Brasil

Maria Eduarda Ferreira
Student of Production Engineering
FACENS University, Sorocaba, SP, Brazil

Competition Winners

Undergraduate Student Paper Competition sponsored by Siemens - Onsite

First Place

ID 42 Leveraging Human-Robot Collaborative Systems in Quality 4.0: The Case of Fasteners in Door Assembly

Mariana C. Prantl Padilla and Camila Delgadillo, Undergraduate Students, Industrial Engineering, Department of Chemical, Industrial and Food Engineering, Universidad Iberoamericana, Mexico City, Mexico
Hugo A. Pérez-Vicente, Professor of Industrial Engineering, Department of Chemical, Industrial and Food Engineering, Universidad Iberoamericana, Mexico City, Mexico
Pablo Segura, Adjunct Professor, Industrial Engineering Department, Department of Chemical, Industrial and Food Engineering, Universidad Iberoamericana, Mexico City, Mexico

Second Place

ID 2 Integration between RFID and OPC-UA applied to a Flexible Manufacturing System (FMS)

Gabriel Siles Petrocchi and Eduardo Paciência Godoy, Control and Automation Engineering Department, São Paulo State University (UNESP) – Sorocaba Campus, Sorocaba, São Paulo, Brazil
Vitor Mendes Caldana, Electronics Department, Federal Institute of Sao Paulo (IFSP) – Sorocaba Campus, Sorocaba, São Paulo, Brazil

Third Place

ID 94 Edge-based Microservice Orquestration using Node-RED for Process Control in Industry 4.0

Matheus River de Souza, Eduardo A. Viana, Fábio A. Nogueira, Eduardo Paciência Godoy and Ricardo Pasquati Pontarolli, São Paulo State University (Unesp), Sorocaba, Sao Paulo, Brazil

Fourth Place

ID 78 Routing and Reduction of Logistical Costs in the Recyclables' Collection from the Coreso Company

Guilherme Coli, Student of Production Engineering, FACENS University, Sorocaba, Sao Paulo, Brazil
João Vitor Pereira, Student of Production Engineering, FACENS University, Sorocaba, Sao Paulo, Brazil
Maria Clara da Silva Nogueira, Student of Production Engineering, FACENS University, Sorocaba, Sao Paulo, Brazil
Maria Eduarda Ferreira, Student of Production Engineering, FACENS University, Sorocaba, Sao Paulo, Brazil

Undergraduate Student Paper Competition sponsored by Siemens - Online

First Place

ID 86 Operations Management in Servuction Systems: A Systematic Review of the Literature: A Case Study in the Health Sector
Gladis María Saltarin Camacho, CIPTEC Research Group - TIPS Research Incubator, Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production, Fundación Universitaria Tecnológico Comfenalco, Bolívar, Cartagena, Colombia

Valeria Stephanie Ortiz Las Calles, CIPTEC Research Group - TIPS Research Incubator, Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production, Fundación Universitaria Tecnológico Comfenalco, Bolívar, Cartagena, Colombia
Hernando Garzón Sáenz, CIPTEC Research Group - Faculty of Engineering - Industrial Engineering Program - Technology in Industrial Production, Fundación Universitaria Tecnológico Comfenalco, Cartagena de Indias, Colombia
Andrés Redchuk, ETSII, Department of Computer Sciences and Statistics, University Rey Juan Carlos, Madrid, Spain

Second Place

ID 137 Developing a Multivariate Time Series Forecasting Model to Estimate the State of Battery of Drone Battery

Abdulsalam Ahmed Alqarni, Assistant Professor, Industrial Engineering Department, King Khalid University, Abha, Saudi Arabia
Ali Rizqan, Industrial Engineer and a Teaching Assistant, King Khalid University, Abha, Saudi Arabia
Reena AlAmri, Rama AlAmri, Lina Mohammed AlShabaily and Dalal Khaled AlDiwash, Senior Industrial Engineering Students, King Khalid University, Abha, Saudi Arabia

Third Place

ID 51 Management Model 4.0 For Planning and Control of Production in The Cauca Liquor Industry (IIC)

Jhon Leander Gómez Gómez, Student, Industrial Engineering Program, Fundación Universitaria de Popayán, Popayán, Cauca, Colombia
Nora Fernanda Arciniegas Sánchez, Professor, Industrial Engineering Program, Fundación Universitaria de Popayán, Cauca, Colombia

Undergraduate Research Competition sponsored by Daikin Applied - Online

First Place

ID 136 Exploring Urban Mobility in NCR: A Study on Ride-Hailing App Satisfaction

Bryan Edric G. De Castro, Marya Kryzel Z. Francisco, and Neilson Luke E. Arcala, Students, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines
Nestor R. Ong, Professor, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Second Place

ID 120 Optimizing Load Utilization and Routing Efficiency in CVRP: Varying Vehicle Capacity Case in the Automotive Industry Closed-Loop Supply Chain

Mertcan Karakaya, Aybüke Sözer, Canberk Tuğcu, İrem Görmez, Syed Shah Sultan Mohiuddin Qadri, and Cihan Kaan Güngördü, Department of Industrial Engineering, Çankaya University, Ankara, Türkiye

Third Place

ID 153 Analysis of Heavy Metal Pollution in XYZ River with RF and Xgboost Methods

Christyfanie Elva Angelica, Universitas Tarumanagara, Jakarta, Indonesia
Lina Gozali, Tarumanagara University, Jakarta, Indonesia
Adianto Adianto, Tarumanagara University, Jakarta, Indonesia

AI-ML Competition

First Place

ID 158 Input-Validation System Interface for Indonesia Buyer

Rymartin Jonsmith Djaha, Universitas Tarumanagara, Jakarta, Indonesia
Lamto Widodo, Tarumanagara University, Jakarta, Indonesia
Lina Gozali, Tarumanagara University, Jakarta, Indonesia

Second Place

ID 46 The Role of GenAI Chatbots in Customer Service: An Application in a Brazilian Luxury Pool Company

Ana Julia Dal Forno, UFSC - Santa Catarina Federal University, Brazil

Third Place

ID 75 Smart Maintenance with IoT and Artificial Intelligence: A Case Study on Slat Conveyors in the Automotive Industry

Makbule Nalkıran Birinci, PhD Student in Industrial Engineering, Yıldız Technical University, Beşiktaş, İstanbul, Türkiye
Serkan Altuntaş, Professor Doctor in Industrial Engineering, Beşiktaş, İstanbul, Türkiye

Graduate Student Paper Competition sponsored by Eaton Corporation

First Place

ID 11 Robustness of a Metal Finishing Process Using the Taguchi Method Following the Lean-Sigma Approach.

Omar Celis-Gracia, Jorge Luis García Alcaraz, Francisco Javier Estrada Orantes, Fabiola Hermosillo Villalobos, Department of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juárez, Ciudad Juarez, Chihuahua, Mexico

Second Place

ID 15 Application of lean manufacturing tools as a factor of change to address external factors in the industry

Fabiola Hermosillo Villalobos, Omar Celis Gracia, Jorge Luis García Alcaraz and Francisco Javier Estrada Orantes, Autonomous University of Ciudad Juárez, Ciudad Juarez, Chihuahua, Mexico

Third Place

ID 72 Unleashing Potential: The Impact of Entrepreneurial Autonomy And Risk-taking Capabilities on SMEs' Performance: Does Ownership Matter?

Mebrahtom Teklehaimanot Tesfa, Quality and Operations Management chair, School of Mechanical and Industrial Engineering, Ethiopian Institute of Technology -Mekelle, Mekelle University, Mekelle, Ethiopia
Hailekiros Sibhato Gebremichael, Industrial Systems Engineering chair, School of Mechanical and Industrial Engineering, Ethiopian Institute of Technology -Mekelle, Mekelle University, Mekelle, Ethiopia
Kinfe Tsegay Beyene, Quality and Operations Management chair, School of Mechanical and Industrial Engineering, Ethiopian Institute of Technology -Mekelle, Mekelle University, Mekelle, Ethiopia

ID 117 The Influence of Industry 4.0 on the Lessons Learned Process in Project Management

Thaís Maria de Albuquerque Korndorfer, Master Student in Federal University of Paraná (UFPR), Curitiba, Parana, Brazil
Guilherme Francisco Frederico, Professor of Operations, Supply Chain and Project Management, Federal University of Paraná (UFPR), Curitiba, Parana, Brazil

Senior Design Project Competition

First Place

ID 118 Integrated Maintenance Planning, Process Quality and Production Scheduling Optimization

Deniz Karataş, Gamze Güçlüer, Zeynep Ece Abay, Syed Shah Sultan Mohiuddin Qadri, Doruk Torunoğlu, Emre Can Gök, and Enes Can Erkoç, Department of Industrial Engineering, Çankaya University, Ankara, Türkiye

Second Place

ID 143 Designing of an automated platform for workforce scheduling optimization under Demand Uncertainty

Madiha Razaqat, Professor, Al Yamamah University, Saudi Arabia
Abdulaziz Ramiz Yousef Alswilem, Student, Al Yamamah University, Saudi Arabia
Mohammed Saad Essa Jumaiah, Student, Al Yamamah University, Saudi Arabia
Shaker Sami Mohammed Mardini, Student, Al Yamamah University, Saudi Arabia
Tirad Abdulkarim Thamer Almu, Student, Al Yamamah University, Saudi Arabia
Mohammed Ibrahim Jameel Aref, Student, Al Yamamah University, Saudi Arabia

Third Place

ID 36 Sustainable Design of a Solar-Photovoltaic Electrocoagulation Wastewater Treatment System for Kuwait Oil Industry

Mohamed Abouelela, Associate Professor, College of Engineering and Technology, American University of the Middle East, Kuwait
Asmaa Abhar, Layali Obaid, Rimas Almutairi and Shahad Almutairi, Students, College of Engineering and Technology, American University of the Middle East, Kuwait

High School STEM Competition - Onsite

First Place

ID 88 Using De-characterized TV BOX in Industry 4.0 Applications

Guilherme Henrique Pinheiro and Eduardo Paciência Godoy, Scientific Initiation Program PIBIC Junior CNPQ/Reitoria UNESP, Universidade Estadual de São Paulo (UNESP) – Campus Sorocaba, Sorocaba, São Paulo, Brasil
Vitor Mendes Caldana, Professor, Eletronics Department, Instituto Federal de São Paulo (IFSP) – Campus Sorocaba, Sorocaba, São Paulo, Brasil

Second Place

ID 76 Developing a reprogrammable structure for RFID routing using Node-RED

André Oliver Litvay and Eduardo Paciência Godoy, Scientific Initiation Program PIBIC Junior CNPQ/Reitoria UNESP, Universidade Estadual de São Paulo (UNESP) – Campus Sorocaba, Sorocaba, São Paulo, Brasil

Vitor Mendes Caldana, Professor, Eletronics Department, Instituto Federal de São Paulo (IFSP) – Campus Sorocaba, São Paulo, Brasil

Third Place

ID 81 Understanding the Robotic Manipulator RV-2AJ for future viability study of integration into a Legacy FMS Digital Twin application

Leonardo Henrique Camilo Patrão and Eduardo Paciência Godoy, Scientific Initiation Program PIBIC Junior CNPQ/Reitoria UNESP, Universidade Estadual de São Paulo (UNESP) – Campus Sorocaba, Sorocaba, São Paulo, Brasil

Vitor Mendes Caldana, Professor, Electronics Department, Instituto Federal de São Paulo (IFSP) – Campus Sorocaba, São Paulo, Brasil

Simulation Competition

First Place

ID 115 Textile and Apparel Sector Outlook Confecciones Del Peru

Piero Fabrizio Ardito Xavier, Carrera de Ingeniería Industrial, Universidad de Lima, Peru

Second Place

ID 79 International Logistics and Environmental Impact

Guilherme Coli, Student of Production Engineering, FACENS University, Sorocaba, Sao Paulo, Brazil

João Vitor Pereira, Student of Production Engineering, FACENS University, Sorocaba, Sao Paulo, Brazil

María Clara da Silva Nogueira, Student of Production Engineering, FACENS University, Sorocaba, Sao Paulo, Brazil

María Eduarda Ferreira, Student of Production Engineering, FACENS University, Sorocaba, Sao Paulo, Brazil

Third Place

ID 157 Raw material inventory handling of MCB import component cluster with ABC-XYZ pareto analysis and dynamic system

Rina Gunawan, Universitas Tarumanagara, Jakarta, Indonesia

Ahmad Ahmad, Universitas Tarumanagara, Jakarta, Indonesia

Lina Gozali, Tarumanagara University, Jakarta, Indonesia

Supply Chain and Logistics Competition sponsored by aThingz

First Place

ID 58 Reverse Logistics in the Sorocaba Metropolitan Region

Lucas Barbosa, Bachelor's in industrial engineering, Facens University, Sorocaba, Sao Paulo, Brazil

Second Place

ID 160 Forecasting Carton Box Company Demand Using Artificial Neural Networks

Wildan Wildan, Universitas Tarumanagara, Jakarta, Indonesia

Lina Gozali, Tarumanagara University, Jakarta, Indonesia

I Wayan Sukania, Tarumanagara University, Jakarta, Indonesia

Third Place

ID 156 Production Control and Packaging Product Inventory Planning at PT.XYZ

Reyner Tebiono, Universitas Tarumanagara, Jakarta, Indonesia

Lina Gozali, Tarumanagara University, Jakarta, Indonesia

Lamto Widodo, Tarumanagara University, Jakarta, Indonesia

Master's Thesis Competition

ID 172 Development of a Framework to Support Tool Selection in the DMAIC Method, in Lean Six Sigma

Evelyn Amanda de Abreu Lopes Ramos, Professor of Production Engineering, FACENS University, Sorocaba, Sao Paulo, Brazil

Lean Six Sigma Competition

First Place

ID 152 Suggestion Of Fmea Method And Oee Application In Battery Production Machine Maintenance To Reduce Failure Risk In Battery Company

Abner Christofer, Universitas Tarumanagara, Indonesia

Lina Gozali, Tarumanagara University, Indonesia
Lamto Widodo, Tarumanagara University, Indonesia

Second Place

ID 90 Productivity Improvement In The Glass Enameling Process Of A SME Using 5S And SLP

Luis Eduardo Aguilar Vigo, Faculty of Engineering and Architecture, Universidad de Lima
Santiago de Surco, Lima, Perú
Vanessa Ivette Montoya del Solar, Faculty of Engineering and Architecture, Universidad de Lima, Santiago de Surco, Lima, Perú
Maria Claudia Aguilar Vigo, Faculty of Engineering and Architecture, Universidad de Lima, Santiago de Surco, Lima, Perú

Third Place

ID 135 Framework to Measure Organizational Culture Readiness to Adopt AI in Qatar

Farah Taha Khalil Shabana, Department of Computer Engineering, Qatar University, Qatar
Khalifa Nasser Al-Khalifa, Department of Industrial System Engineering, Qatar University, Qatar

Poster Competition

First Place

ID 189 LSTM & XGBoost: A Powerful Hybrid Approach for Lithium-Ion Battery Capacity Prediction

Contreras D. Bruno, Faculty of Engineering and Management, Professional School of Mechanical and Electrical Engineering, National Technological University of Lima South, Villa El Salvador, Lima, Peru

Second Place

ID 190 Improving the performance of a photovoltaic panel in its energy generation through the use of solar concentrators

Brandon Chero, Luis Guerrero, Hector Mendo, Rosmer Rodriguez, Faculty of Engineering and Management, Professional Degree in Mechanical and Electrical Engineering, National Technological University of South Lima, Peru

Third Place

ID 187 Slope Stability Analysis With Limit Equilibrium Methods for the Chinchipe-Cajamarca Bridge Access

Ampuero J. Eduardo, Arostegui S. Giovanni, Ataus L. Junior y Gutiérrez H. Ricardo
Faculty of Civil Engineering, Ricardo Palma University, Lima, Peru