



IEOM Society

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2022 IEOM Awards – 3rd South American Paraguay Conference

IEOM Distinguished Leadership Award

Mr. Sumihiro Takaoka
President
Sumi S.A. President
Japan Paraguay Chamber of Commerce

Alfred Fast
CEO, Fecoprod Ltda.
President, El Instituto de Biotecnología Agrícola (INBIO)
Asuncion Paraguay

Claudio Vierci
Director-Presidente
Vierci Development
Paraguay

IEOM Distinguished Educator Award

Heriberto García-Reyes, PhD
Regional Chairman
Industrial Engineering Department
Tecnologico de Monterrey
Monterrey, Mexico

Distinguished Industry Achievement Award

Marco Carvalho
CEO
Matza Education
São Paulo (SP), Brazil

Distinguished Professor Award

Professor Duc Truong Pham
Chance Professor of Engineering
Director of Research
Department of Mechanical Engineering
School of Engineering
College of Engineering and Physical Sciences
The University of Birmingham
Birmingham B15 2TT United Kingdom

Prof. Dr. Marcelo Castier
Dean of the Faculty of Engineering Sciences
UPA – Universidad Paraguayo Alemana / German Paraguayan University
San Lorenzo, Paraguay

Outstanding Professor Award

Prof. Samuel Wiens Bartel
Profesor
Universitario para Liderazgo y Desarrollo Personal
Paraguay

Dr. Sergio Salimbeni, Eng, MBA, PhD
Professor & Researcher – Industrial and Management Engineering – Industry 4.0 – Quality 4.0 – PLM4.0
Universidad del Salvador

Buenos Aires, Argentina

Innovation and Entrepreneurship Award

Aldo Marcos Moscarda
Director
MARCOS Ingenieros constructores. (Antes Hidrovial Consultores)
Paraguay

IEOM Woman in Industry and Academia Award

Maria Carolina Diaz
Business Process Optimization Manager
Spirit Airlines
Miami, Florida, USA

Ph.D (c) Rosa Patricia Larios-Francia
Docente – Investigador
Laboratorio Textil y Confecciones
Carrera de Ingeniería Industrial
Facultad de Ingeniería y Arquitectura
Universidad de Lima
Peru

IEOM Global Engineering Education Award

Prof. Daniel Ohata
Mobile Developer and Game Designer, Ibug Solutions
Part Time Professor, Centro Universitário Facens
Sorocaba, São Paulo, Brazil

Teaching Award

Dr. Nubia Velasco
Associate professor
Universidad de los Andes
Bogota, Colombia

Rodolfo Sabonge
Secretario General
Asociación de Estados del Caribe
Trinidad and Tobago

IEOM Industry 4.0 Award

Guillermo Parra Romero, MSCSE
Control Systems Engineer
TEACS – Technology, Engineering and Control Systems
Paraguay

Industry Solutions Award

Felix Peña
CEO
Coworking Labs EAS
Paraguay

Supply Chain Management Award

Dr. Mesbahuddin Chowdhury
Senior Lecturer in Operations and Supply Chain Management
University of Canterbury
Canterbury, New Zealand

Lean Six Sigma Award

Gabriel Gonzalez Morra
Director – Lean Six Sigma Institute LLC
Director – Advance Business Advisors
Associate Professor, UCOM – Universidad Comunera
Paraguay

Aracelli Centeno
Senior Process Architect
Registro Nacional de Identificación y Estado Civil (RENIEC)

Peru

IEOM Distinguished Service Award

Dr. Jorge Kurita, Research Faculty, Department of Industrial Engineering, Asuncion National University, Paraguay
Prof. Vitor M. Caldana, IFSP – Instituto Federal de São Paulo – Campus Sorocaba, SP, Brazil

IEOM Outstanding Student Leadership Award

Ana Arévalos, Asuncion National University, San Lorenzo, Paraguay

Completion Awards

Undergraduate Student Paper Competition Sponsored by SIEMENS

1st place winner

ID 290 Productivity increasing through the implementation of a service management model based on Lean Service, MRP, and SLP in cleaning and pet care services SMEs

Leonardo Calmet-Olivos, Alexandra Rosas-Herrera, Juan Carlos Quiroz-Flores and Martin Fidel Collao-Díaz
Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima Perú

2nd place winner

ID 112 Application of Machine Learning algorithms for the prediction of payment by agreement in a debt collection company with the CRISP-DM methodology

Martín Calero Pérez, María Baldeon Calisto, Universidad San Francisco de Quito, USFQ, Colegio de Ciencias e Ingeniería, Departamento de Ingeniería Industrial and Instituto de Innovación en Productividad y Logística CATENA-USFQ, Diego de Robles s/n y Vía Interoceánica, Quito, Ecuador

Sebastián Bonilla, Universitat Politècnica de Catalunya- Barcelona Tech, Facultad de Matemáticas y Estadística, Carrer de Jordi Girona, 31, Barcelona España

Daniel Riofrío, Universidad San Francisco de Quito USFQ, Colegio de Ciencias e Ingenierías, Carrera de Ingeniería en Ciencias de la Computación and The Applied Signal Processing and Machine Learning Research Group USFQ, Quito, Ecuador

ID 146 Discrete Event Modeling for Operational Management of Restaurants

Marcelo Caballero, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

Gabriel Quesada, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

Marcos Fernando Ruiz-Ruiz, Associate Professor, Universidad de Lima, Lima, Perú

Wilfredo Yushimito, Associate Professor, Universidad Adolfo Ibáñez, Viña del Mar, Chile

3rd place winner

ID 384 Comparison Between Davies-Bouldin Index And Silhouette Coefficient Evaluation Methods In Retail Store Sales Transaction Data Clusterization Using K-Medoids Algorithm

Kholiq Amrulloh, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia

Tacbir Hendro Pudjiantoro, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia

Puspita Nurul Sabrina, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia

Asep Id Hadiana, Informatics Department, Faculty of Science and Informatics, Universitas Jenderal Achmad Yani, Cimahi, Indonesia

ID 180 Production Model to increase OEE through the application of Lean Manufacturing and Total Production Maintenance tools in animal feed manufacturing SMEs

Angelo Paolo Espinoza-Monge, Yibely Alexandra Zenteno-Correa, Juan Carlos Quiroz-Flores and Martin Fidel Collao-Díaz

Universidad de Lima Facultad de Ingeniería y Arquitectura Lima, Perú

4th place winner

ID 429 Thermal Vacuum Chamber Structure Design for a 1U CubeSats

Esteban Acosta Mellid, Undergraduated Student, Facultad de Ingeniería, Universidad Nacional de Asuncion, Asunción, Paraguay

Jorge Kurita, Research Professor, Facultad de Ingeniería, Universidad Nacional de Asunción, Asunción, Paraguay

ID 422 Assignment of Patients to ICU Beds in Health Emergency Situations through Mathematical Programming

Betania Echagüe, Sannie Román, Estudiantes de Ingeniería en Sistemas de Producción, Facultad Politécnica – Universidad Nacional de Asunción, Asunción, Paraguay

María M. López, Jorge L. Recalde-Ramírez, Grupo de Investigación de Operaciones e Inteligencia Artificial (GIOIA), Facultad Politécnica – Universidad Nacional de Asunción, Asunción, Paraguay

Graduate Student Paper Competition sponsored by EATON Corporation

1st place winner

ID 269 The Potential of Rainwater Harvesting as an Optional Water Supply of Building XYZ

Rombert Brian B. Malate, Klint Allen A. Mariñas, Michael N. Young, and Yogi Tri Prasetyo, School of Industrial Engineering and Engineering Management, Mapúa University, 658 Muralla St., Intramuros, Manila 1002, Philippines
Klint Allen A. Mariñas and Yung-Tsan Jou, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City, Taiwan
Reny Nadlifatin, Department of Information Systems, Institut Teknologi Sepuluh November, Kampus ITS Sukolilo, Surabaya, Indonesia

2nd place winner

ID 71 Using Fuzzy Logic in Manual Test Script Authoring Effort Estimation in Software Test Planning

Ralph Andre C. Roque, Klint Allen A. Mariñas, Michael N. Young, and Yogi Tri Prasetyo, School of Industrial Engineering and Engineering Management, Mapúa University, 658 Muralla St., Intramuros, Manila 1002, Philippines
Klint Allen A. Mariñas and Yung-Tsan Jou, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City, Taiwan
Satria Fadil Persada, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

High School STEM Competition

First Place

ID 275 Portfolio Management of Social Projects: A Case Study in IFSP - 2021

Anne Karolyne de Almeida Lima and Vitor Mendes Caldana
Federal Institute of Sao Paulo (IFSP) – Sorocaba Campus
Sorocaba, Sao Paulo, Brazil

2nd Place

ID 213 Pedals Clean Energy and Health: Smartphone and Tablets Charger

Cesar Hipólito Pinto, Instituto Tecnológico da Aeronautica, Brazil

Master Thesis Competition

1st place winner

ID 193 Selection Of Power Plant Management In Order To De-Dieselisation Program Of Pltd Kangean Using Analytical Hierarchy Process (Ahp) And Goal Programming

Dwi Septyan Waluyo, Master's Student of Sekolah Interdisiplin Manajemen Teknologi
Udisubakti Ciptomulyono, Lecturer of Sepuluh Nopember Institute of Technology, Sepuluh Nopember Institute of Technology
Surabaya, Indonesia

2nd place winner

ID 173 The Impact of Korean Celebrity Endorsements Toward Purchase Intention in Indonesia Marketplace that mediated by Brand Image and Brand Attitude

Friska Tiara, Business Management, Management Department, Binus Business School Master Program, Bina Nusantara University, Jakarta, Indonesia
Willy Gunadi, Business Management, Management Department, Binus Business School Master Program, Bina Nusantara University, Jakarta, Indonesia 11480

Lean Six Sigma Competition sponsored by Tooling Tech Group

1st place winner

ID 196 Application of Lean Six Sigma in Water Testing Laboratory to Increase Efficiency and Enhance Customer Satisfaction

Nomalungelo Magwaza, Department of Quality and Operations Management, University of Johannesburg, South Africa
Dr Anup Pradhan, Department of Quality and Operations Management, University of Johannesburg, South Africa

2nd place winner

ID 222 Improvement of the Output of a Berries Producer Through Lean Six Sigma: A Case Study

Isidora Venegas and Mervyn Márquez, Industrial and Systems Engineering Institute, Universidad Austral de Chile, Valdivia, Chile

3rd place winner

ID 69 Material Variance Reduction Through Six Sigma Approach

Marilou Agapay-Bigcas, Klint Allen A. Mariñas, Michael N. Young, and Yogi Tri Prasetyo, School of Industrial Engineering and Engineering Management, Mapúa University, 658 Muralla St., Intramuros, Manila 1002, Philippines
Klint Allen A. Mariñas and Yung-Tsan Jou, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City, Taiwan
Reny Nadlifatin, Department of Information Systems, Institut Teknologi Sepuluh November, Kampus ITS Sukolilo, Surabaya, Indonesia

Simulation Competition

1st place winner

ID 30 Machining process optimization using simulation in Flexsim

Gabriela Barbosa, Gabriela Padilha, Halana Bueno, Renan Pontes, Samuel Francisco das Virgens, Rodrigo Luiz Gigante, Henrique Ewbank Facens University, Sorocaba, São Paulo, Brazil

Supply Chain and Logistics Competition

1st place winner

ID 385 Why Service Climate Matters for Supply Chain Adaptability and Resilience of Logistics Service Provider: A Study of Blockchain Applications

Dicky Hida Syahchari, Assistant Professor, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Darjat Sudrajat, Assistant Professor, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Hardijanto Saroso, Assistant Professor, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Engkos Achmad Kuncoro, Associate Professor, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Andre Kreie, Director Logistics Education – LEED, Kuehne Foundation, Switzerland

2nd place winner

ID 75 Modelling the Risk Susceptibility of Agro-Industry Circular Supply Chain During Major Disruptions: A Life Cycle Perspective

Klint Allen A. Mariñas, Michael N. Young, and Yogi Tri Prasetyo, School of Industrial Engineering and Engineering Management, Mapúa University, 658 Muralla St., Intramuros, Manila 1002, Philippines
Klint Allen A. Mariñas and Yung-Tsan Jou, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City, Taiwan
Satria Fadil Persada, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

Third Place

ID 387 Moderating Effect of Supply Chain Complexity on Supply Chain Alignment and Resilience: A Study of Blockchain Applications on Logistics Service Providers

Dicky Hida Syahchari, Assistant Professor, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Darjat Sudrajat, Assistant Professor, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Hardijanto Saroso, Assistant Professor, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Hendry Hartono, Assistant Professor, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia
Andre Kreie, Director Logistics Education – LEED, Kuehne Foundation, Switzerland

COVID-19 Competition

1st place winner

ID 395 Design of a Localized Air Exhaust System For an Undergraduate Dental Practice Room Under Covid-19 Context, a Case Study

Elías Espínola, Universidad Nacional de Asunción, Asunción, Paraguay
Vivian González, Universidad Nacional de Asunción, Asunción, Paraguay
Liz Esquivel, Universidad Nacional de Asunción, Asunción, Paraguay