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2025 IEOM Annual Awards – Industrial Engineering and Operations Management International Conference

Rabat, Morocco, April 8-10, 2025

Venue: Institut National des Postes et Télécommunications (INPT), Rabat, Morocco

Distinguished Academic Leadership Award

M Ahmed TAMTAOUI
Interim Director
National Institute of Posts and Telecommunications (INPT)
Rabat, Morocco

Dr. Rupa Vasudevan
Chancellor
Bharatiya Engineering Science and Technology Innovation University (BEST IU)
Anantapur, Andhra Pradesh, India

Distinguished Industry Achievement Award

Najlaa ELGUENNOUNI
Plant Manager
FORVIA FAS
Kenitra, Morocco

Woman in Industry and Academia Award

Pr. Dr. Laila EL ABBADI
Professor of Industrial Engineering
National School of Applied Sciences of Kenitra (ENSA-Kenitra)
Ibn Tofail University, Morocco

Outstanding Industry Leadership Award

Professor Mohammed BENOUARREK
Director of Strategy, Organization and Human Capital – PROMAMEC Group
Vice-President, Reach Out

Lean Six Sigma Best Practice Award

Ing. Imane Boumsisse
Senior Operational Excellence Manager
Lean Six Sigma Black Belt, Certified QMS ISO 9001: 2015 and Lead Auditor

Distinguished Professor Award

Professor Nawfel Azami
Professor, National Institute of Posts and Telecommunications (INPT)
Rabat, Morocco

Outstanding Professor Award

Professor Jamal El Baz
Full Professor, Ibn Zohr University

Agadir, Morocco

Professor Nadia Benabdeljilil
Head
Department of Industrial Engineering
École Mohammadia d'Ingénieurs (EMI)
Mohammed V University
Rabat, Morocco

Outstanding Professor Lean Six Sigma Award

Dr. Ali Saeed Almuflih
Head, Department of Industrial Engineering and Associate Professor
King Khalid University, Abha, Saudi Arabia

Outstanding Professor in Lean Six Sigma Award

Dr. Ali Saeed Almuflih
Head, Department of Industrial Engineering and Associate Professor
King Khalid University
Abha, Saudi Arabia

Outstanding Researcher Award

Salima Hammadi
Higher Institute of Nursing Professions and Health Techniques, Fez
Ministry of Health and Social Protection, Morocco

Outstanding International Collaboration Award

Leila Karrakchou
Service de la Communication et des Relations Internationales
INPT
Rabat, Morocco

Supply Chain Management Award

Dr. Jabir Arif
Associate Professor of Logistic & SCM
Science and Management Techniques Department
Ecole Supérieure De Technologie
Sidi Mohamed Ben Abdellah University of Fez
Fez, Morocco

Distinguished Leadership Award

Dr Abdelaziz Berrado
Professor, Department of Industrial Engineering
École Mohammadia d'Ingénieurs (EMI)
Mohammed V University
Rabat, Morocco

Dr Omar SOUSSI
Professor
The National Institute of Posts and Telecommunications
Rabat, Morocco

Outstanding Leadership Award

Dr Zoubida Chorfi
Industrial Engineering Department
Ecole Mohammadia d'Ingénieurs
Rabat, Morocco

Outstanding Student Achievement Award

Yuana Delvika
Research Scholar
Mechanical and Industrial Engineering Department
Indian Institute of Technology
Roorkee, Uttarakhand, India

Outstanding Conference Service Award

Dr Yassine ERRAOUI
EMI, Mohammed V University
Rabat, Morocco

Outstanding Student Volunteer Award

Achchab Ihsane
Amiri Karima
Id Said Oubella Ijja
Ihrouchen Zineb
Jabri Maryam
Malk Malak
Rami Khalil
Sait Yassine
Serji Asmae

Competition Winners

Undergraduate Student Paper Competition sponsored by Siemens – Part I

First Place

ID 47 Designing and Manufacturing of Efficient Injection Mold

Mohamed Gaber, Senior Student, Manufacturing Engineering Department, German International University, Cairo, Egypt
Ahmed Gabr, Teaching assistant, Faculty of Engineering, German International University, Cairo, Egypt
Amr Nounou, Associate Professor, Faculty of Engineering, German International University, Cairo, Egypt

Second Place

ID 62 Comparing Machine Learning Forecasting Models Based on Accuracy and Efficiency for Predicting Demand in a Food and Beverage Company

Ray Baltazar Alunen, Cyrene Franchesca Molina, Raven Franchesca Quesada and Chloe Nicole Reyes, Department of Industrial Engineering
Faculty of Engineering, University of Santo Tomas, Manila, Philippines
Engr. Delfin Jacob, MSIE, PIE, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Manila, Philippines

Third Place

ID 92 Design and Control of 3-axis CNC Milling Machine

Abdelrahman Amr Elsayed, Department of Robotics and Automation Engineering, German International University, New Administrative Capital, Cairo, Egypt
Seif Salah, Teaching and Research Assistant, Faculty of Engineering, German International University, New Administrative Capital, Cairo, Egypt
R. Shenouda, Assistant Professor, Faculty of Engineering, German International University, New Administrative Capital, Cairo, Egypt

ID 96 Optimizing Task Scheduling in Cloud Computing: A Comparative Analysis of Min-Min, Max-Min, AIGA, and ELOA

Kıvılcım Naz Böke, Department of Industrial Engineering, Çankaya University, Ankara, Türkiye
Syed Shah Sultan Mohiuddin Qadri, Department of Industrial Engineering, Çankaya University, Ankara, Türkiye
Ahmet Kabarcık, Department of Industrial Engineering, Çankaya University, Ankara, Türkiye

Undergraduate Student Paper Competition sponsored by Siemens – Part II

First Place

ID 108 Comparative Analysis of the Mechanical Properties of Fiberboard Reinforced with Banana Pseudostem (BPS) Fibers and Conventional Medium-Density Fiberboards

Joehanna K. Ngo, Ph.D, Pie, Asean Engr., Assoc. Prof., Professor of Industrial Engineering, Faculty of Engineering, University of Santo Tomas
Manila, Philippines
Jennica Ashley G. Chua, Joseph Anthony M. Macatangay, Ma. Raphaelle Aldea B. Mendoza and Nian Keizer P. Obias, Roque Ruano,
Faculty of Engineering, Industrial Engineering University of Santo Tomas, Manila, Philippines

Second Place

ID 105 Determining the Risk Factors Affecting the Work-Related Musculoskeletal Disorders Among Street Sweepers In Quezon City, Philippines

Joehanna K. Ngo, PhD, PIE, ASEAN Eng., UST Faculty of Engineering Faculty Member, Department of Industrial Engineering, University of Santo Tomas (UST), Manila, Philippines

Zyra Mae V. Sicat, MOH, Asst. Prof., College of Rehabilitation Sciences Faculty Member, Department of Physical Therapy, University of Santo Tomas (UST), Manila, Philippines

ID 153 Development and Evaluation of a Multimodal Sensory Integrated Device for Autonomous Grocery Assistance for Visually Impaired Filipinos

Nestor R. Ong, MSIE, PIE, ASEAN Engr., Asst. Prof., Instructor, Department of Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines

Rayden Baluyut, James Julian, Justine Moises and Edrian Santos, Faculty of Engineering, Industrial Engineering Department, University of Santo Tomas, Sampaloc, Manila, Philippines

Castillo, Patrick A., De Mesa, Jamie Angelica B., Plazuelo, Louise Ken, Santos, Joaquin Carlos, 4th Year Faculty of Engineering Students Department of Industrial Engineering, University of Santo Tomas (UST), Philippines

Third Place

ID 155 Analyzing the Factors Affecting Learning Motivation and Academic Performance In Hybrid Learning Setup Among UST Engineering Students

Joehanna K. Ngo, Associate Professor, Department of Industrial Engineering, University of Santo Tomas, Sampaloc, Manila, Philippines

Gabriel Majul, Kiel Joshua Rodriguez, William Emmanuel Solamo and Leander Tubeza, Faculty of Engineering, Industrial Engineering Department

University of Santo Tomas Sampaloc, Manila, Philippines

Undergraduate Research Competition sponsored by Daikin Applied

First Place

ID 8 Developing a Maintenance Management Model for Service Level Optimization: A Case Study in Peruvian Heavy Goods Transport SMEs

Danny Daniel Salazar-Ccaccya, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

Alvaro Odon Valverde-Gonzales, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

Yván Jesús García-López, Research Professor, Facultad de Ingeniería, Universidad de Lima, Perú

Second Place

ID 43 Real-Time Markerless Hand-Eye Calibration for Robotic Systems Using Latent Space Representations and Enhanced Autoencoder Networks

César Augusto Marín-Moreno, Facultad de Ciencias Empresariales, Ingeniería Industrial, Universidad Tecnológica de Pereira, Pereira, Colombia

Juan Pablo Chávez-Candamil, Zeir Fernando Morales-Franco and Andrea Valentina García-Moreno, Research, Development, and Innovation (R&D&I) Area, Integra SA, Pereira, Colombia

Rubén-Iván Bolaños, Faculty of Engineering, Mechatronics and Electromechanics Program, Instituto Tecnológico Metropolitano, Medellín, Colombia

Óscar-Danilo Montoya-Giraldo, Grupo de Compatibilidad e Interferencia Electromagnética, Facultad de Ingeniería, Universidad Distrital Francisco José de Caldas, Bogotá, Colombia

Jesús C. Hernández, Department of Electrical Engineering, Universidad de Jaén, Jaén, Spain

ID 128 Mexican Sign Language Translator

Angelica Hernandez-Rayas, Professor, Department of Physical Engineering, Division of Science and Engineering, University of Guanajuato, Leon Campus

Oscar César Cajina Malagón, Professor, Department of Data Science & Business Analytics, Florida Polytechnic University, Lakeland, Florida, USA

Rafael Guzmán-Cabrera, Professor, Engineering Division. Dept. of Electrical Engineering. Salamanca - Valle de Santiago Highway Km. 3.5 + 1.8; Palo Blanco Community; Salamanca, Gto., Mexico

Third Place

ID 35 Automation and Digitisation of photographic records for Zimbabwe's women of the liberation struggle at the Ministry of War Veterans Affairs

Amos Bishi, Harare Polytechnic, Zimbabwe

Graduate Student Paper Competition sponsored by Eaton Corporation

First Place

ID 209 Trade-offs in Robotic Assembly Line Balancing: Investigating Cycle Time, Energy Consumption, and Efficiency through Mathematical Optimization

Rehab Seif ElMolouk, Department of Design & Production Engineering, Faculty of Engineering, Ain-Shams University, Cairo, Egypt
Amin M.K. El-Kharbotly, Department of Design & Production Engineering, Faculty of Engineering, Ain-Shams University, Cairo, Egypt
Raghda B. Taha, Department of Supply Chain Management, College of International Transport and Logistics, Arab Academy for Science, Technology and Maritime Transport, Cairo, Egypt

Second Place

ID 30 Examining Operations and Financial Performance Amongst Agricultural Cooperatives in South Africa

Simo Khumalo, Department of Quality and Operations Management, Faculty of Engineering and the Built Engineering, University of Johannesburg

55 Beit St, Doornfontein, Johannesburg, 2028, South Africa

Sizwe Mkwana, Department of Business Management, College of Business and Economics, University of Johannesburg, Chris Hani, Soweto, Johannesburg, 1809, South Africa

Nelson Sizwe Madonsela, Department of Quality and Operations Management, Faculty of Engineering and the Built Engineering, University of Johannesburg, 55 Beit St, Doornfontein, Johannesburg, 2028, South Africa

Third Place

ID 5 Lean Manufacturing and SLP Integration: A Case Study of Process Optimization in Peruvian Garment SMEs

Nadia Naomi Calderon-Suarez, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

Diana Alexandra Vásquez-Altuna, Bachelors in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

Yván Jesús García-López, Research Professor, Facultad de Ingeniería, Universidad de Lima, Perú

Senior Design Project / FYP Competition

First Place

ID 113 Bottleneck Identification and Production Improvement in Manufacturing Systems Using Discrete-Event Simulation

Zeynep Ece Abay, Emre Can Gök, Syed Shah Sultan Mohiuddin Qadri, Deniz Karataş, Gamze Güçlüer, Enes Can Erkoç and Doruk Torunoğlu

Department of Industrial Engineering, Çankaya University, Ankara, Türkiye

Second Place

ID 98 Automated Supply Chain Management Platform for Optimization of Truck Assignment and Trip Route

Osamah Abdulhameed, Sali Ghanem, Rafal Sadeq, Reemas Al Ghamdi and Dalal Al Mazyad, Industrial Engineering Department, College of Engineering and Architecture, Al-Yamamah University, Riyadh-11512, Saudi Arabia

ID 127 Sustainable Design and Development of Industrial Automation Controller of Booster Pump using Variable Frequency Drives

Nasser Musaad M Almuqbil, Nawaf Badr Eid Alharbi, Abdullaziz Shabib Shafi Almutlaq, Hassan Thabet Mohammad Mohammad and Abdullaziz Ahmed S Alqarawi, Al Yamamah University, Saudi Arabia

Ali M Alsamhan, Al Yamamah University, Saudi Arabia

Third Place

ID 133 Developing a digital twin to predict sheet metal forming operation parameters

Hesham Elkanani, Al Yamamah University, Saudi Arabia

Lean Six Sigma Competition

First Place

ID 64 Improvement of Medical Consultation Service Level through the Use of Lean Six Sigma at MedSalud Medical Center

Kathia Vásquez-Moncada, Luciana Tejada-Alarcón and Carlos Urbina-Rivera, Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Peru

Second Place

ID 142 Improvement of the Conformity of Production (CoP) Test Process to Minimize Wastes: A Case Study of a Motorcycle Manufacturing Company

Chatchay Boonman, System Engineering Program, School of Industrial Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima 30000, Thailand

Jongkol Srithom, Industrial Engineering, Institute of Engineering, Suranaree University of Technology, Nakhon Ratchasima 30000, Thailand

Third Place

ID 135 Strategic Analysis of Digital Service Quality in Digital Transformation of Healthcare using Intuitionistic Fuzzy AHP Method

Gülçin Büyükoçkan and Orhan Feyzioğlu, Professor, Ph.D., Department of Industrial Engineering, Galatasaray University, 34349, Istanbul, Turkey

Celal Alpay Havle, Assistant Professor, Ph.D., Department of Professional Flight, Özyeğin University, 34794, Istanbul, Turkey

Supply Chain and Logistics Competition sponsored by aThingz

First Place

ID 136 Improving Fresh Egg Waste Levels in A Lima Warehouse of a Producer and Distributor Company Using Lean Six Sigma Tools and EOQ Method

Manuel Gustavo Ausejo Alva, University of Lima, Lima, Peru
Alejandro Nicolas Salazar Renteria, University of Lima, Lima, Peru
Rafael Mauricio Villanueva Flores, Universidad de Lima, Lima, Peru

Second Place

ID 234 A Framework for Vertical and Horizontal Supply Chain Integration in Cooperatives: COPAG Case

Oufkiri Mariam and Elkorchi Akram, Systems Engineering and Decision Support Laboratory, Agadir National School of Applied Sciences University Ibn ZOHR, Agadir, Morocco

Third Place

ID 44 The Impact of Adopting Green Supply Chains on the Competitive Advantage of Arab Potash Company

Prof. Refat Alfaouri, Yarmouk University - Faculty of Business Department of Public Administration, Jordan
Rania Ali Rababa'a, Yarmouk University - Faculty of Business Department of Business Administration, Jordan

Doctoral Dissertation Competition sponsored by Airbus

First Place

ID 97 Critical Chain Project Management in Engineering Projects under the Corps of Engineers, Armed Forces of the Philippines

Romalyn Galingan, Philippine Military Academy, Philippines

Second Place

ID 176 Strategies and Obstacles in Curating Data for Breast Cancer Prediction Models: A Foundation for AI-Driven Models

Ismail Chitaouy and Abdelaziz Berrado, Research Team AMIPS, École Mohammadia d'Ingénieurs, Mohammed V University in Rabat Rabat, Morocco

Third Place

ID 206 Integrating AI Agents and Business Intelligence for Smart Industry

Achraf Ballari, PhD Student, National Institute of Posts and Telecommunications – INPT, Rabat, Morocco
Omar Souissi, Professor, Department of Data Analytics, Operations and Decision (DATA), National Institute of Posts and Telecommunications – INPT, Rabat, Morocco

Human Factors and Ergonomics Competition

First Place

ID 222 A Preliminary Study of Detecting Human Decision by interpreting neural signal via Electroencephalography (EEG) and Machine Learning in a Binary Decision (Yes/No) paradigm

Kazi Farzana Firoz, School of Computing, Applied Science, & Engineering, Carolina University, Winston-Salem, NC 27101, USA
Younho Seong, Department of Industrial and Systems Engineering, North Carolina Agricultural and Technical State University, Greensboro, NC, USA

Second Place

ID 106 Analysis of the Mental Workload of Inbound Voice Contact Center Agents under the Hybrid Work Setup in the Philippines

Aaron James DC. Abutar, Alyssa Justine D. Avanzado, Ral-jean L. Bongga, Derick Deo D. Pedenes and Maria Isabel R. Samson, Students, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas – Manila
Carlos Ignacio P. Lugay, Jr., Professor, Dept. of Industrial Engineering, Faculty of Engineering, University of Santo Tomas – Manila, Philippines

Third Place

ID 217 Seat Comfort Prediction with Pressure and Posture

Hala Bermamet, Engineering Systems and Management Khalifa University, Abu Dhabi, UAE
Shayaan Syed, Engineering Systems and Management Khalifa University, Abu Dhabi, UAE
Saed Amer, Engineering Systems and Management Khalifa University, Abu Dhabi, UAE
Mecit Can Emre Simsekler, Engineering Systems and Management Khalifa University, Abu Dhabi, UAE
Ravindra S. Goonetilleke, Engineering Systems and Management Khalifa University, Abu Dhabi, UAE

Best Track Papers

Business Management and Operations Management

ID 172 Evaluation Business Process of Songket Industries in Indonesia to Increase Time Efficiency

Yuana Delvika, Research Scholar, Mechanical and Industrial Engineering Department, Indian Institute of Technology Roorkee, Uttarakhand, India

Industrial Engineering Department, Universitas Medan Area, North Sumatra, Indonesia

Akshay Dvivedi, Professor, Mechanical and Industrial Engineering Department, Indian Institute of Technology Roorkee, 247667, Uttarakhand, India

ID 175 Prioritizing the Key Internal Capabilities for Nurturing the post-war recovery and sustainable competitiveness of SMEs: Fuzzy Delphi Approach

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

Digital Transformation

ID 211 A SWOT-SWARA Analysis of the Digital Transformation in Turkish SMEs

Gülçin Büyüközkan, Professor, Department of Industrial Engineering, Galatasaray University, Ortaköy, İstanbul, Türkiye

Başak Çelik, Galatasaray University, Ortaköy, İstanbul, Türkiye

Facility Planning and Layout

ID 58 Redesign of The Warehouse of a Beverage Distributor Company to Decrease the Rate of Damaged Products by Applying SLP, ABC Matrix and Standardized Work

Sheramy A. Guanilo Juli, Ana Micaela Meza Cáceres and Rafael Villanueva Flores, Industrial Engineering Department, University of Lima, Peru

Healthcare Systems

ID 180 A Conceptual Framework for Integrating Exoskeleton Technologies in Healthcare

Andile Dube, Fadzai Dzehonye, Hillary Muzenda, Tanyaradzwa Nyamupaguma and Sibusisiwe Dube, Department of Informatics and Analytics

National University of Science and Technology, Bulawayo, Zimbabwe

Sinokubekezela P. Dube, School of Engineering, The University of Zambia, Lusaka, Zambia

Human Factors and Ergonomics

ID 89 Analyzing Passenger Comfort in Modern Jeepneys: Measuring Compatibility with the Anthropometric Measurements of Metro Manila Commuters

Carlos Ignacio Lugay Jr., PhD, PIE, ASEAN Engr., Professor/Adviser, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, Philippines

Edward P. Atencio, Eugene Mark G. Bagahansol, Aren Carlo S. Batenga, and Shigeki C. Uchida, Bachelor of Science in Industrial Engineering

University of Santo Tomas, España Boulevard, Sampaloc, Manila, Philippines

ID 90 Assessing Decision-Making Abilities of Medical Students in Trauma Radiography Using a Signal Detection Theory

Osama T. Al Meanazel, Associate Professor, Industrial Engineering Department, College of Engineering, Al Yamamah University, Al Khobar, KSA

Abdalmageed Almotari, Assistant Professor, Industrial Engineering Department, College of Engineering, Al Yamamah University, Al Khobar, KSA

Osayd Mowafaq Quran, Research Assistant, Industrial Engineering Department, College of Engineering, The Hashemite University, Zarqa, Jordan

Mutaz Jamil Aburahma, Student, Industrial Engineering Department, College of Engineering, The Hashemite University, Zarqa, Jordan

Lean Manufacturing

ID 171 Production Model Based on Lean Manufacturing to Increase Productivity in The Cutting Area in A Textile SME

Giancarlo Alberto Barrantes-Sánchez, Facultad de Ingeniería, Universidad de Lima, Peru

José Luis López-Vargas, Facultad de Ingeniería, Universidad de Lima, Peru

Nicolás Salazar-Medina, Research Professor, Facultad de Ingeniería, Universidad de Lima, Peru

Maintenance and Safety

ID 241 Developing a safety training program focusing on machine maintenance

Mphakiseng Mofokeng and Takalani Tshabalala, Department of Quality and Operations Management, University of Johannesburg, South Africa

Manufacturing

ID 10 Crashworthiness of Micro-Fiber-reinforced Foam-Filled Carbon Fiber Composite Tubes

Tamer Ali Sebaey, Engineering Management Department, College of Engineering, Prince Sultan University, Riyadh, Saudi Arabia
Tabrej Khan, Engineering Management Department, College of Engineering, Prince Sultan University, Riyadh, Saudi Arabia

Operations Management

ID 251 Enhancing Non-Fare Box Revenue of Light Rail Transit (LRT) in South Sumatra

Muhamad Firman Ridho, Erika Buchari, Melawaty Agustien and Kiagus Muhammad Aminuddin, Department of Civil Engineering, Faculty of Engineering, Sriwijaya University, Indralaya, Indonesia

Supply Chain and Logistics

ID 148 Digital Twins for Food Supply Chain Sustainability: Rapid Literature Review and Conceptual Model

Sara Bouraya, PhD Researcher, LISAD, National School of Applied Sciences, University of Ibn Zohr, Agadir, Morocco
Akram El Korchi, LISAD, National School of Applied Sciences, University of Ibn Zohr, Agadir, Morocco

ID 223 Designing a Blockchain Framework for Optimized Supply Chain Management

Lebhar Ikram, PhD Researcher - Industrial Engineering, ENSAM-Meknes School of Engineering, University Moulay Ismail, Morocco
Dadda Afaf, Full Professor of Industrial Engineering, ENSAM-Meknes School of Engineering, University Moulay Ismail, Morocco
Lhachimi Ilyas and Imioussaka Zakarya, Industrial Engineering Students, ENSAM-Meknes School of Engineering, University Moulay Ismail, Morocco
Ezzine Latifa, Full Professor of Industrial Engineering, ENSAM-Meknes School of Engineering, University Moulay Ismail, Morocco



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