

Award Recognition and Competition Winners

5th South American IEOM Conference, Bogota, May 9, 2024



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2024 IEOM
South American
Bogota Awards



IEOM

5th South American International Conference
Industrial Engineering and Operations Management

Bogota, Comlombia



HOST UNIVERSITIES

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INTERNACIONAL DE LA RIOJA
COLOMBIA



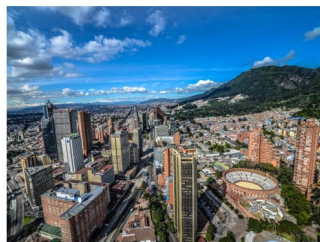
May 7–9, 2024

ORGANIZER



Conference Highlights

- 256 submissions
- 22 keynote speakers
- 1 panels
- 4 workshops
- 9 student competitions
- International participations
- Networking



IEOM President



Prof. Eldon G. Caldwell Marin,
Ph.D., Sc.D, Dr.Ed.
Professor, Industrial Engineering
Department
Engineering School
University of Costa Rica
San Jose, Costa Rica



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– Proyecto Orquídeas
Facultad de Ciencias Económicas y
Administrativa
Universidad Cooperativa de Colombia
Bogotá, Colombia





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Federal Institute of Sao Paulo (IFSP)
Sorocaba Campus
Sorocaba, Sao Paulo, Brazil



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Keynote Speakers - Bogota

5th South American IEOM Conference



5th South American Conference on
**Industrial Engineering &
Operations Management**
Bogota, Colombia, May 7-9 2024
Venue: Doubletree by Hilton, Bogota



Thanks



- Speakers
- Presenters
- Competition participants
- Authors
- Reviewers
- Track chairs
- Student volunteers
- and more



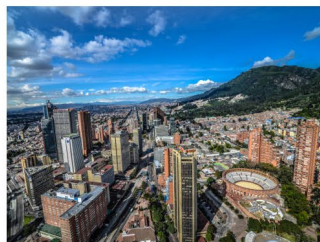
IEOM Vision

The IEOM Society International strives to be the premier global organization dedicated to the advancement of industrial engineering and operations management discipline for the betterment of humanity.



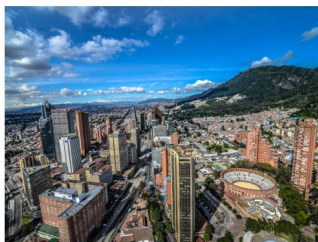
IEOM Mission

IEOM Society's mission is to foster critical thinking, innovation, and knowledge dissemination of Industrial Engineering (IE) and Operations Management (OM) among diversified people globally, especially in emerging countries.



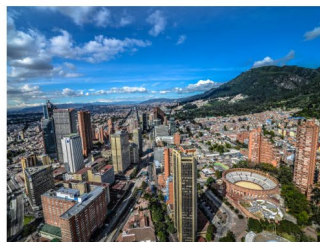
Values:

- Globalization, Diversity, and Inclusion
- Innovative and Entrepreneurial Thinking
- Student Empowerment and Mentoring
- Professional Development and Lifelong Learning
- Building Partnerships among Industry, Academia, and Government
- Sustainability and Community Development



IEOM – Professional Organization

- Membership
- IEOM Professional and Student Chapters
- Conferences - USA, EU, Asia, Africa and South America
- IEOM Journal - IJIEOM
- Forums:
 - Global Engineering Education Forum
 - Global Supply Chain and Logistics Forum
 - Industry Solutions Forum
 - Women in Industry and Academia Forum
- Certification – LSS, FMEA, GD&T, FTA
- Awards and Fellows
- Newsletters



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Past Pro-Vice Chancellor Strategic Partnerships and Industrialisation
University of Zimbabwe
Mt Pleasant, Harare, Zimbabwe



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University Research & Technology Partnerships Manager
Airbus Americas
Mobile, Alabama, United States



Prof. Vitor Mendes Caldana
Federal Institute of Sao Paulo (IFSP)
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Brazil



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Full Professor/Cathedraticus
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San Jose, Costa Rica



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College of Business, Law and Social Sciences
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Department of Chemical Engineering
University of Waterloo
Canada



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Professor of Systems Engineering
Air Force Institute of Technology
Wright-Patterson Air Force Base
Dayton, Ohio, USA



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Dept. of Industrial Engineering
The Ecole Mohammadia d'Ingénieurs (EMI), Mohammed V University,
Rabat, Morocco



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Department of Management
IESEG School of Management
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Vice Dean, Faculty of Engineering, Universitas Sebelas Maret (UNS),
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President, 2021-2023
Professor, Industrial and Systems Engineering and Director, College of Engineering Accreditation and Assessment, Texas A&M University,
College Station, USA



Luz María Valdez de la Rosa, Ph. D.
Professor
School of Engineering and Technology
Universidad de Monterrey
Nuevo León, Mexico



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Industrial Engineering and Operations Management Society International



Conferences

Annual

- 2010 – Dhaka
- 2011 – Kuala Lumpur
- 2012 – Istanbul
- 2014 – Bali
- 2015 – Dubai
- 2016 – Kuala Lumpur
- 2017 – Rabat
- 2018 – Bandung
- 2019 – Bangkok
- 2020 – Dubai
- 2021 – Singapore
- 2022 – Istanbul
- 2023 – Manila
- 2024 – Dubai
- 2025 - Singapore

North American

- 2015 – Orlando
- 2016 – Detroit
- 2018 – Washington, DC
- 2019 – Toronto
- 2020 - Detroit
- 2021 – Monterrey
- 2022 – Orlando
- 2023 – Houston
- 2024 – Washington DC

European

- 2017 – UK
- 2018 – Paris
- 2019 – Czech Republic
- 2021 – Rome, Italy
- 2022 – Rome, Italy
- 2023 – Lisbon
- 2024 – Munich, Germany

Asian

- 2021 – Harbin, China
- 2021 – Surakarta, Indonesia
- 2022 – Jahor Baru, Malaysia
- 2023 – Vietnam
- 2024 - Tokyo

South American

- 2017 – Bogota
- 2019 – Costa Rica
- 2021 – Sao Paulo, Brazil
- 2022 – Paraguay
- 2023 – Peru
- 2024 – Bogota
- 2025 – Sorocaba, Brazil

African

- 2019 - Pretoria
- 2020 – Harare
- 2022 – Nigeria
- 2023 - Zambia
- 2024 – Pretoria
- 2025 – Rabat, Morocco

Australian

- 2022 – Sydney
- 2023 – Melbourne
- 2024 - Sydney



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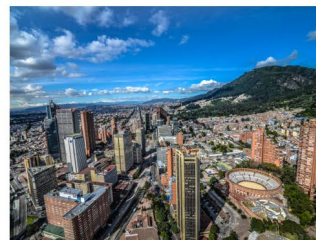
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IEOM Student Chapters



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IEOM Student Chapters around World

Algeria	1. Adrar University	84. Ramaiah University of Applied Sciences	164. Pontificia Universidad Católica del Perú (PUCP)
Australia	2. Queensland University of Tech., Brisbane	85. Nawab Shah Alam Khan College Eng & Tech (NSAKCET)	165. Universidad Privada del Norte (UPN)
3. UNSW-Canberra	86. Global Institute Of Eng and Technology, Hyderabad	166. Universidad Continental (UContinental)	167. Universidad de Ingeniería y Tecnología (UTEC)
4. University of Melbourne	87. VNR Vignana Jyothi Institute of Eng and Technology	168. Universidad Nacional de Ingeniería (UNI)	169. University of San Martín de Porres (USMP)
5. University of Wollongong	88. Siddhartha Institute of Engineering & Technology	169. YTI Mumbai - Vastava Jyothi Technologic Institute	
6. University of Adelaide	89. Osmania University – The University College of Eng		Philippines
Bahrain	90. BML Munjal University, Gurugram, India	91. AKTU University, Kanpur, India	170. Bulacan State University, Malolos City, Bulacan
7. University of Bahrain	92. Mumukshu Bhawan Varanasi Institute of Technology	93. Mumukshu Bhawan Varanasi Institute of Technology	171. LPU Laguna
Bangladesh	94. Bangladesh University of Textiles (BUTEX)	95. Bangladesh University of Textiles (BUTEX)	172. Mapua University
8. Anisul Ullah University of Sci & Tech (AUST)	96. Bangladesh University of Textiles (BUTEX)	97. Bangladesh University of Textiles (BUTEX)	173. De La Salle University (DLSU) Manila
9. Bangladesh Institute of Management (BIM)	98. Bangladesh University of Textiles (BUTEX)	99. Bangladesh University of Textiles (BUTEX)	174. Adamson University
10. Bangladesh University of Textiles (BUTEX)	99. Bangladesh University of Textiles (BUTEX)	100. Bangladesh University of Textiles (BUTEX)	175. CEBU Technological University
11. BUET	100. Bangladesh University of Textiles (BUTEX)	101. Bangladesh University of Textiles (BUTEX)	176. University of San Jose-Recoletos
12. CUET	101. Bangladesh University of Textiles (BUTEX)	102. Bangladesh University of Textiles (BUTEX)	Portugal
13. Daffodil International University (DIU)	102. Bangladesh University of Textiles (BUTEX)	103. Bangladesh University of Textiles (BUTEX)	177. ISEL – Instituto Superior De Engenharia de Lisboa
14. DUET, Gazipur	103. Bangladesh University of Textiles (BUTEX)	104. Bangladesh University of Textiles (BUTEX)	Qatar
15. European University of Bangladesh	104. Bangladesh University of Textiles (BUTEX)	105. Bangladesh University of Textiles (BUTEX)	178. Qatar University
16. International Islamic University of Chittagong	105. Bangladesh University of Textiles (BUTEX)	106. Bangladesh University of Textiles (BUTEX)	Saudi Arabia
17. IUBAT	106. Bangladesh University of Textiles (BUTEX)	107. Bangladesh University of Textiles (BUTEX)	179. Alfaisal University
18. Jessore University of Science and Technology	107. Bangladesh University of Textiles (BUTEX)	108. Bangladesh University of Textiles (BUTEX)	180. Effat University
19. Khulna University (KU)	108. Bangladesh University of Textiles (BUTEX)	109. Bangladesh University of Textiles (BUTEX)	181. King Abdulaziz University (KAU)
20. Khulna University of Eng and Tech (KUET)	109. Bangladesh University of Textiles (BUTEX)	110. Bangladesh University of Textiles (BUTEX)	182. King Abdulaziz University, Rabigh
21. Military Institute of Science and Technology	110. Bangladesh University of Textiles (BUTEX)	111. Bangladesh University of Textiles (BUTEX)	183. King Fahd Univ of Petroleum and Minerals (KFUPM)
22. National Institute of Textile Eng & Res (NITER)	111. Bangladesh University of Textiles (BUTEX)	112. Bangladesh University of Textiles (BUTEX)	184. King Khalid University, Abha
23. Rajshahi University (RU)	112. Bangladesh University of Textiles (BUTEX)	113. Bangladesh University of Textiles (BUTEX)	185. King Saud University (KSU)
24. SUST	113. Bangladesh University of Textiles (BUTEX)	114. Bangladesh University of Textiles (BUTEX)	186. Umm Al-Qura University (UQU)
25. University of Chittagong	114. Bangladesh University of Textiles (BUTEX)	115. Bangladesh University of Textiles (BUTEX)	187. Princes Nourah University (PNU)
26. World University Bangladesh (WUB)	115. Bangladesh University of Textiles (BUTEX)	116. Bangladesh University of Textiles (BUTEX)	188. Prince Sattam Bin Abdulaziz University
27. BAUST	116. Bangladesh University of Textiles (BUTEX)	117. Bangladesh University of Textiles (BUTEX)	189. Prince Sultan University (PSU)
28. American International University-Bangladesh (AIUB)	117. Bangladesh University of Textiles (BUTEX)	118. Bangladesh University of Textiles (BUTEX)	190. Taibah University
Botswana	118. Bangladesh University of Textiles (BUTEX)	119. Bangladesh University of Textiles (BUTEX)	191. University of Tabuk
29. University of Botswana	119. Bangladesh University of Textiles (BUTEX)	120. Bangladesh University of Textiles (BUTEX)	192. Taibah University
Brazil	120. Bangladesh University of Textiles (BUTEX)	121. Bangladesh University of Textiles (BUTEX)	193. University of Business and Technology
30. Federal University of Sao Carlos (UFSCar)	121. Bangladesh University of Textiles (BUTEX)	122. Bangladesh University of Textiles (BUTEX)	194. King Khalid University, Abha
31. Federal University of Santa Catarina (UFSC)	122. Bangladesh University of Textiles (BUTEX)	123. Bangladesh University of Textiles (BUTEX)	195. University of Bisha
32. University of Sao Paulo (USP) – Sao Carlos	123. Bangladesh University of Textiles (BUTEX)	124. Bangladesh University of Textiles (BUTEX)	196. Taif University
33. Federal Institute of Sao Paulo, Sorocaba	124. Bangladesh University of Textiles (BUTEX)	125. Bangladesh University of Textiles (BUTEX)	South Africa
34. FACENS University, Sorocaba	125. Bangladesh University of Textiles (BUTEX)	126. Bangladesh University of Textiles (BUTEX)	197. Durban University of Technology (DUT)
Canada	126. Bangladesh University of Textiles (BUTEX)	127. Bangladesh University of Textiles (BUTEX)	198. Tshwane University of Technology (TUT)
35. Concordia University	127. Bangladesh University of Textiles (BUTEX)	128. Bangladesh University of Textiles (BUTEX)	199. University of Johannesburg (UJ)
36. Humber Institute of Tech and Adv Learning	128. Bangladesh University of Textiles (BUTEX)	129. Bangladesh University of Textiles (BUTEX)	200. University of South Africa (UNISA)
37. Polytechnic Montreal	129. Bangladesh University of Textiles (BUTEX)	130. Bangladesh University of Textiles (BUTEX)	201. Vaal University of Technology (VUT)
38. University of New Brunswick at Fredericton	130. Bangladesh University of Textiles (BUTEX)	131. Bangladesh University of Textiles (BUTEX)	Sn Lanka
39. University of Waterloo	131. Bangladesh University of Textiles (BUTEX)	132. Bangladesh University of Textiles (BUTEX)	202. University of Kelaniya
40. University of Windsor	132. Bangladesh University of Textiles (BUTEX)	133. Bangladesh University of Textiles (BUTEX)	203. University of Peradeniya
Colombia	133. Bangladesh University of Textiles (BUTEX)	134. Bangladesh University of Textiles (BUTEX)	Sudan
41. Fundación Univ. Tecn. Comfenalco, Cartagena, Bolivar	134. Bangladesh University of Textiles (BUTEX)	135. Bangladesh University of Textiles (BUTEX)	204. Sudan University of Science and Tech Khartoum
42. University of Rosario, Bogota	135. Bangladesh University of Textiles (BUTEX)	136. Bangladesh University of Textiles (BUTEX)	Thailand
43. University of Quindío	136. Bangladesh University of Textiles (BUTEX)	137. Bangladesh University of Textiles (BUTEX)	205. Chulalongkorn University, Bangkok
44. Universidad de San Buenaventura, Cali, Valle	137. Bangladesh University of Textiles (BUTEX)	138. Bangladesh University of Textiles (BUTEX)	206. Chiang Mai University
45. Institución Universitaria Colegios de Colombia	138. Bangladesh University of Textiles (BUTEX)	139. Bangladesh University of Textiles (BUTEX)	Turkey
46. Escuela Colombiana de Ingeniería, Julio Gararito	139. Bangladesh University of Textiles (BUTEX)	140. Bangladesh University of Textiles (BUTEX)	207. Turkish-German University
47. Universidad Católica de Colombia	140. Bangladesh University of Textiles (BUTEX)	141. Bangladesh University of Textiles (BUTEX)	UAE
48. Universidad Santo Tomás de Aquino	141. Bangladesh University of Textiles (BUTEX)	142. Bangladesh University of Textiles (BUTEX)	208. University of Science & Technology of Fujairah
49. Fundación Universitaria Internacional de La Rioja	142. Bangladesh University of Textiles (BUTEX)	143. Bangladesh University of Textiles (BUTEX)	UK
50. Universidad América	143. Bangladesh University of Textiles (BUTEX)	144. Bangladesh University of Textiles (BUTEX)	209. University of Derby
51. Universidad Militar Nueva Granada (UMNG)	144. Bangladesh University of Textiles (BUTEX)	145. Bangladesh University of Textiles (BUTEX)	210. University of the West of England, Bristol
52. Universidad Cooperativa de Colombia (UCC)	145. Bangladesh University of Textiles (BUTEX)	146. Bangladesh University of Textiles (BUTEX)	USA
Costa Rica	146. Bangladesh University of Textiles (BUTEX)	147. Bangladesh University of Textiles (BUTEX)	211. Central Connecticut State University
53. University of Costa Rica	147. Bangladesh University of Textiles (BUTEX)	148. Bangladesh University of Textiles (BUTEX)	212. Eastern Michigan University
Czech Republic	148. Bangladesh University of Textiles (BUTEX)	149. Bangladesh University of Textiles (BUTEX)	213. Lawrence Technological University, Michigan
54. University of West Bohemia, Pilsen	149. Bangladesh University of Textiles (BUTEX)	150. Bangladesh University of Textiles (BUTEX)	214. University of the District of Columbia
Ecuador	150. Bangladesh University of Textiles (BUTEX)	151. Bangladesh University of Textiles (BUTEX)	215. Indiana State University
55. Technical University of Ambato	151. Bangladesh University of Textiles (BUTEX)	152. Bangladesh University of Textiles (BUTEX)	216. Florida Polytechnic University
Egypt	152. Bangladesh University of Textiles (BUTEX)	153. Bangladesh University of Textiles (BUTEX)	217. Buffalo State College
56. Zagazig University	153. Bangladesh University of Textiles (BUTEX)	154. Bangladesh University of Textiles (BUTEX)	218. Southern Arkansas University
57. Fayoum University	154. Bangladesh University of Textiles (BUTEX)	155. Bangladesh University of Textiles (BUTEX)	219. Western Michigan University
58. British University in Egypt	155. Bangladesh University of Textiles (BUTEX)	156. Bangladesh University of Textiles (BUTEX)	220. Loyola University Chicago
Ethiopia	156. Bangladesh University of Textiles (BUTEX)	157. Bangladesh University of Textiles (BUTEX)	221. Minnesota State University, Mankato
59. Bahir Dar Institute of Technology	157. Bangladesh University of Textiles (BUTEX)	158. Bangladesh University of Textiles (BUTEX)	222. Central State University
Finland	158. Bangladesh University of Textiles (BUTEX)	159. Bangladesh University of Textiles (BUTEX)	223. University of Central Florida
60. University of Vaasa	159. Bangladesh University of Textiles (BUTEX)	160. Bangladesh University of Textiles (BUTEX)	Venezuela
France	160. Bangladesh University of Textiles (BUTEX)	161. Bangladesh University of Textiles (BUTEX)	224. Catholic University Andrés Bello, Caracas
61. IESEG School of Management	161. Bangladesh University of Textiles (BUTEX)	162. Bangladesh University of Textiles (BUTEX)	Vietnam
62. Lorraine University, Metz	162. Bangladesh University of Textiles (BUTEX)	163. Bangladesh University of Textiles (BUTEX)	225. CFVG, Ho Chi Minh City, Vietnam
Ghana	163. Bangladesh University of Textiles (BUTEX)	164. Bangladesh University of Textiles (BUTEX)	Zambia
63. Technological Education Institute (TEI), Larissa	164. Bangladesh University of Textiles (BUTEX)	165. Bangladesh University of Textiles (BUTEX)	226. University of Zambia
Greece	165. Bangladesh University of Textiles (BUTEX)	166. Bangladesh University of Textiles (BUTEX)	227. Copperbelt University
64. Accra Technical University	166. Bangladesh University of Textiles (BUTEX)	167. Bangladesh University of Textiles (BUTEX)	228. Evelyn Hone College
Haiti	167. Bangladesh University of Textiles (BUTEX)	168. Bangladesh University of Textiles (BUTEX)	Zimbabwe
65. Université Quisqueya	168. Bangladesh University of Textiles (BUTEX)	169. Bangladesh University of Textiles (BUTEX)	229. University of Zimbabwe, Harare
India	169. Bangladesh University of Textiles (BUTEX)	170. Bangladesh University of Textiles (BUTEX)	230. National University of Science and Technology
66. College of Eng and Tech, Bhubaneswar, Odisha, India	170. Bangladesh University of Textiles (BUTEX)	171. Bangladesh University of Textiles (BUTEX)	231. Harare Institute of Technology (HIT)
67. College of Engineering Guindy, Chennai	171. Bangladesh University of Textiles (BUTEX)	172. Bangladesh University of Textiles (BUTEX)	232. Women's University in Africa (WUA)
68. Guru Nanak Dev Engineering College	172. Bangladesh University of Textiles (BUTEX)	173. Bangladesh University of Textiles (BUTEX)	233. Chitrony University of Technology (CUT)
69. Pandit Dendayal Petroleum Univ., Gujrat	173. Bangladesh University of Textiles (BUTEX)	174. Bangladesh University of Textiles (BUTEX)	High School Chapters
70. P.D.A. College of Engineering, Gulbarga	174. Bangladesh University of Textiles (BUTEX)	175. Bangladesh University of Textiles (BUTEX)	234. Bay Area of San Francisco & San Jose, CA
71. Vellore Institute of Technology	175. Bangladesh University of Textiles (BUTEX)	176. Bangladesh University of Textiles (BUTEX)	235. Arongghata, Khulna, Bangladesh
72. Veda Jyothi Institute of Technology, Hyderabad	176. Bangladesh University of Textiles (BUTEX)	177. Bangladesh University of Textiles (BUTEX)	
73. Universal College of Eng & Tech (UCET), Guntur	177. Bangladesh University of Textiles (BUTEX)	178. Bangladesh University of Textiles (BUTEX)	
74. National Institute of Technology (NIT), Warangal	178. Bangladesh University of Textiles (BUTEX)	179. Bangladesh University of Textiles (BUTEX)	
75. Jawaharlal Nehru Technological University Hyderabad	179. Bangladesh University of Textiles (BUTEX)	180. Bangladesh University of Textiles (BUTEX)	
76. IITS, India	180. Bangladesh University of Textiles (BUTEX)	181. Bangladesh University of Textiles (BUTEX)	
77. Birla Institute of Tech & Sciences (BITS Pilani)	181. Bangladesh University of Textiles (BUTEX)	182. Bangladesh University of Textiles (BUTEX)	
78. Amrita School of Business – Bangalore	182. Bangladesh University of Textiles (BUTEX)	183. Bangladesh University of Textiles (BUTEX)	
79. Amrita school of Arts and Sciences, Mysuru	183. Bangladesh University of Textiles (BUTEX)	184. Bangladesh University of Textiles (BUTEX)	
80. Amrita School of Business, Coimbatore	184. Bangladesh University of Textiles (BUTEX)	185. Bangladesh University of Textiles (BUTEX)	
81. Aligarh Muslim University, Aligarh	185. Bangladesh University of Textiles (BUTEX)	186. Bangladesh University of Textiles (BUTEX)	
82. Mahant Sachidanand Singh College Eng & Tech, Jammu	186. Bangladesh University of Textiles (BUTEX)	187. Bangladesh University of Textiles (BUTEX)	
83. Baba Banda Singh Bahadur Eng College	187. Bangladesh University of Textiles (BUTEX)	188. Bangladesh University of Textiles (BUTEX)	



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Chinhoyi University of Technology (CUT), Zimbabwe



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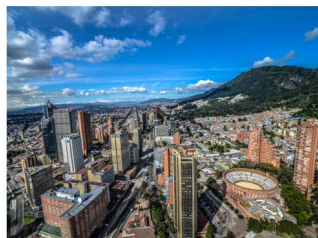
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University of Johannesburg, South Africa 2023-2024 Committee



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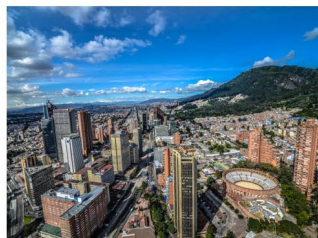


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IEOM Student Chapter at KFUPM



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Hyderabad, Kukatpally, Hyderabad, Telangana, India**

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2024 IEOM
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FACENS University, Sorocaba, SP, Brazil



 **5th South American Conference on
Industrial Engineering &
Operations Management**
Bogota, Colombia, May 7-9 2024
Venue: Doubletree by Hilton, Bogota



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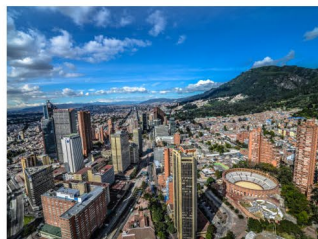
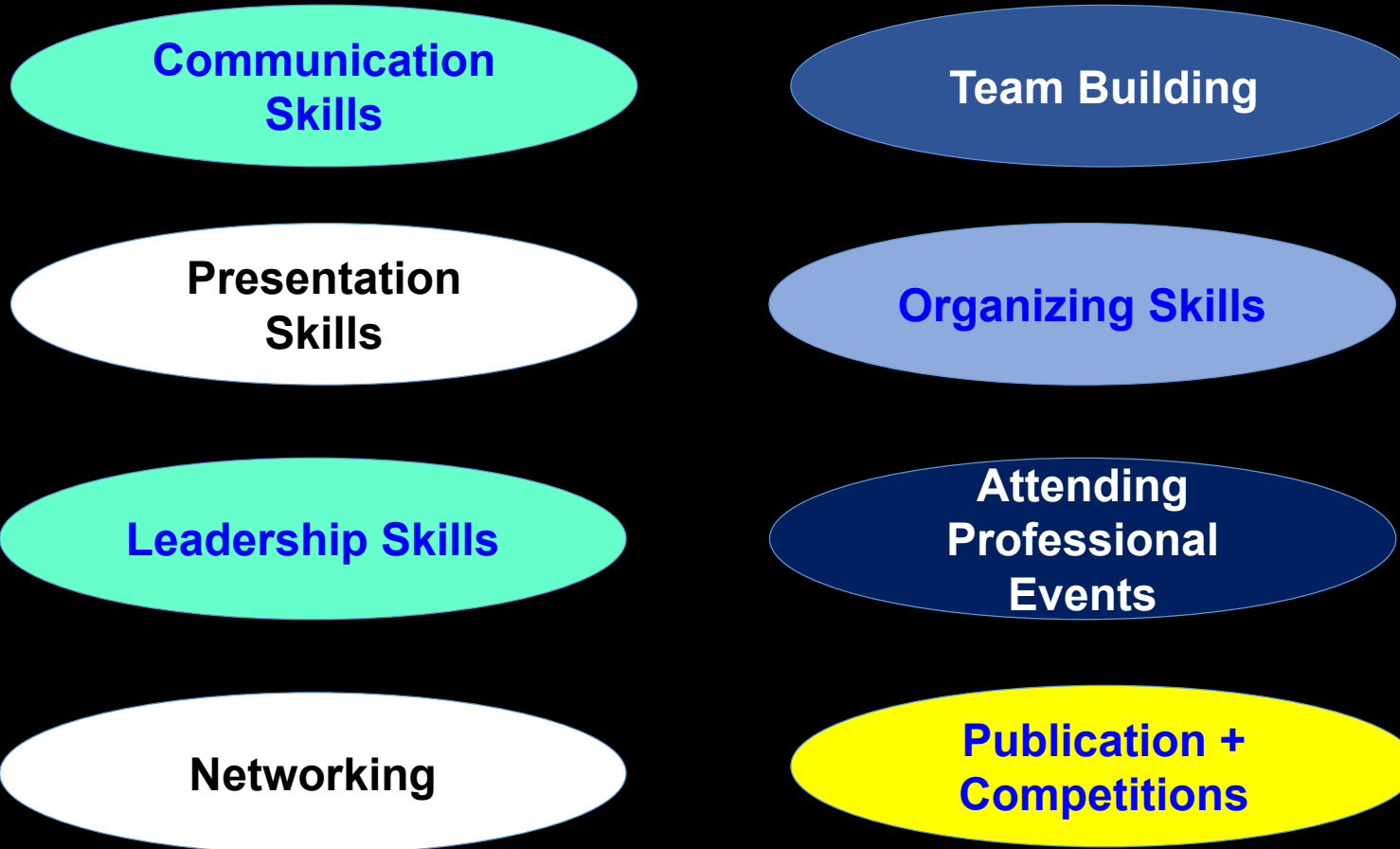


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Distinguished Academic Leadership Award

Dra. Flor Nancy Díaz Piraquive
Rectora
Fundación Universitaria Internacional de La
Rioja (UNIR)
Bogota, Colombia



Distinguished Industry Leadership Award



Arvey Alfonso Granada Calderon
Operations Manager
La Unión Coffee Farm
Pereira, Risaralda, Colombia



Distinguished Industry Leadership Award



Rafael Forero Vargas
Food Safety & Quality Manager Colombia
Rich's Product Corporation
Bogotá D.C, Colombia



Distinguished Educator Award

Professor Jaime Díaz Ortiz
Dean

Faculty of Engineering
Universidad Católica de Colombia
Bogota, Colombia



Distinguished Educator Award

Dr. Javier Arturo Moreno Carvajal
Dean, School of Engineering

**Institución Universitaria Colegios de Colombia –
UNICOC**

Bogota, D.C., Capital District, Colombia



Distinguished Educator Award

Jazmith Adriana Rojas Martínez

Dean

Facultad de Ciencias Económicas y Administrativa
Universidad Cooperativa de Colombia
Chia, Colombia



Distinguished Professor Award

Dr. Catalina Ramírez
Professor and Head
Industrial Engineering Department
Universidad de los Andes
Bogota, Colombia



Distinguished Professor Award

Ivanhoe Rozo Rojas
Head/Director of Industrial Engineering
Universidad Católica de Colombia
Bogota, Colombia



Distinguished Professor Award

Dr. Juan Sebastián Sánchez Gómez
Professor, Industrial Engineering Program
Universidad Católica de Colombia
Bogota, Colombia



Distinguished Educator Award

Juan Felipe Aragon Mendoza
Head, Industrial Engineering Program
Universidad Cooperativa de Colombia
Bogota, Colombia



Outstanding Operations Management Research Award

Dr. Nubia Milena Velasco Rodríguez
Director of Doctorate in Administration
Master of Research in Administration
Universidad de los Andes
Bogotá, Colombia



Outstanding Researcher Award

Prof. Hernando Alexander Gutiérrez Sánchez
Department of Industrial Engineering
Universidad Santo Tomas
Bogota, Colombia



Outstanding Researcher Award

Andrés Felipe Santos Hernández

Industrial Engineering Department

Escuela Colombiana de Ingeniería Julio Garavito

Bogota, Colombia



Outstanding Researcher Award

Dr. Fáber D. Giraldo
Vice-Chancellor of Research
Universidad del Quindío
Armenia, Quindío, Colombia



Outstanding Engineering Education Award

Diego Alexis Romero Rincón
Extension Facultad de Ingeniería
Universidad Católica de Colombia
Bogota, Colombia



Outstanding Professor Award



Dr. Paloma Maria Teresa Martinez Sanchez
Professor of Industrial Engineering
Universidad Militar Nueva Granada
Bogota, Colombia



Outstanding Professor Award

Dr. Ing. Adriana Esguerra Arce, Dr. Ing. Docente

Directora del Centro de Estudios en Gestión de Tecnología e Innovación

Directora del Grupo de Investigación CIMSER

Decanatura de Ingeniería Industrial

Escuela Colombiana de Ingeniería Julio Garavito

Bogotá, D.C., Colombia



Global Six Sigma Award

Alberto Poveda Caputo

Innovation & Operational Excellence Senior Master

General Motors

Bogota, Colombia



Six Sigma Award

German Torres Hernández

MSc Ing. Industrial – MSc en Analytics & AI

Lean Six Sigma Black Belt – Certified RFID Supply Chain Manager

Auditor Líder ISO 9001

**Gerente de Transformación Digital – Consultor Senior Digital
Supply Chain**



AI Award

Jesús María Velásquez-Bermúdez

Founder and Chief Scientific Officer, CSO

Hypothalamus Artificial Intelligence Inc. (HAI Ai)

Tabio, Cundinamarca, Colombia



Global AI and Machine Learning Award



Mohammad Islam
Associate Director
Optum – United Healthcare Inc.
New Jersey, USA



Woman in Industry and Academia Award

Valeria Mendoza Cortés

MSc. Logística y Transporte – Administradora Logística
Certified Internacional Forwarder, Sourcing Specialist
Baker Hughes
Bogota, Colombia



Outstanding Professor in Supply Chain and Logistics

Prof. William Eduardo Mosquera
Professor of Industrial Engineering
Universidad Cooperativa de Colombia
Bogota, Colombia



Outstanding Professor Award

Oscar Alejandro Vásquez Bernal, Ph.D.

Associate Professor

Escuela de Ciencias Básicas Tecnología e Ingeniería ECBTI

Universidad Nacional Abierta y a Distancia UNAD.

Bogotá, Colombia



Outstanding Professor Award

Sonia Jaimes Suárez
Professor

Escuela Colombiana de Ingeniería Julio Garavito
Bogota, Colombia



Global Supply Chain and Logistics Award

Dr. William J. Guerrero

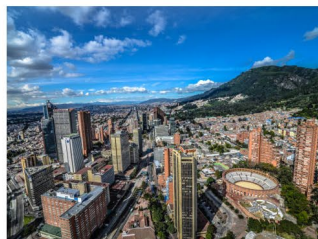
Associate Professor

Head of the Research Group on Logistic Systems

Head of the IT and Process Optimization Department

Universidad de la Sabana

Bogota, D.C., Capital District, Colombia



Outstanding Teaching Award

Prof. Jaime Roldan
Department of Industrial Engineering
Universidad America
Bogota, Colombia



Outstanding Teaching Award

Dr. Jorge Andrés Vivares Vergara

Research Professor

Universidad Nacional Abierta y a Distancia (UNAD)

Bogotá, Colombia



Sustainability Award

Mauricio Becerra Fernandez, PhD

Director of the Industrial Engineering Program

Director of the Master in Smart and Sustainable Cities

Escuela de Ingeniería, Ciencia y Tecnología

Universidad del Rosario, Bogota, Colombia



Innovation Award

Dr. Hernando Garzón Sáenz

Research Professor

Industrial Engineering, Technology in Industrial Production

Fundación Universitaria Tecnológico Comfenalco

Cartagena, Bolívar, Colombia



Innovation Award

Professor Camilo Alarcon Nieto

Assistant Professor

Fundacion UNIR Colombia

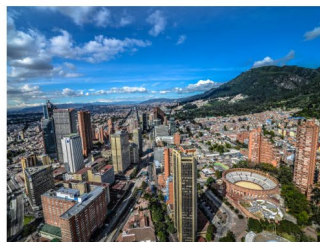
PhD Candidate in Management

Researcher leader in entrepreneurship and technology adoption



Emerging Researcher Award

Luis Enrique Tarazona Torres
Asistente Doctoral de Docencia
Control de Producción, Ingeniería Industrial
Universidad de Los Andes
Bogota, Colombia



Outstanding Conference Leadership Award

Dr. Johanna Trujillo Díaz

Investigador en Estancia Post Doctoral - Proyecto Orquídeas
Facultad de Ciencias Económicas y Administrativa
Universidad Cooperativa de Colombia
Bogota, Colombia



Outstanding Conference Contributor Award

Miryam Liliana Chaves Acero

Doctora en Ingeniería Mecánica y Fabricación

Experta en Inteligencia Artificial aplicada a procesos y neurociencias

Fundación Universitaria Internacional de La Rioja (UNIR)

Bogota, Colombia



Outstanding Conference Contributor Award

Johanna Caranton Diaz

Professor of Industrial Engineering

Fundación Universitaria Internacional de La Rioja (UNIR)
Bogota, Colombia



Outstanding Conference Contributor Award

Diana Patricia Diaz Velandia

Coordinateur de projection sociale et extension

Fundación Universitaria Internacional de La Rioja (UNIR)
Bogota, Colombia



Outstanding Society Service Award

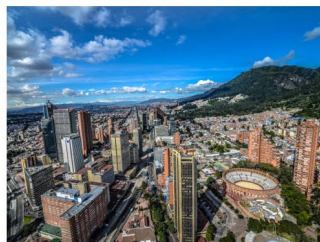
Julián Ignacio López Arcos

Mestre em Engenharia de Produção

Universidade Federal de Itajubá Instituição

Universidad Cooperativa de Colombia Endereço:

Cali, Colombia



Outstanding Service Award



Dr. Tony Prensa, PhD
Chief Executive Officer & Founder
TP Global Business Consulting, LLC
Orlando, Florida, USA



Outstanding Service Award



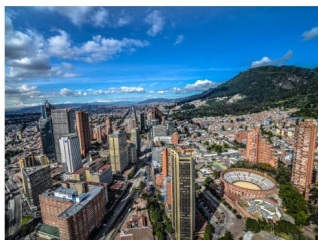
Dr. Luis Rabelo

Professor

Department of Industrial Engineering &
Management Systems

University of Central Florida

Orlando, Florida, USA



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IEOM IBERO Student Chapter

IEOM Student Chapter at Universidad Iberoamericana, México City, México



Faculty Advisor: Dr. Oroselia Sánchez

Chapter Members

Isidro Soria Arguello

Sebastián Ruiz Saad

Jerónimo Warnholtz

Luis Rodrigo Ornelas Torres

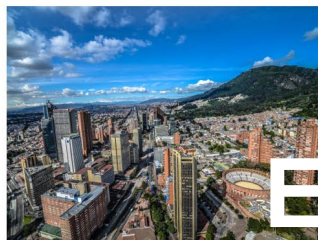
Dylan Buzali

Oliver Joshua Saadia Harvy

**Induction
Ceremony**



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Competition Winners



Undergraduate Student Paper Competition Sponsored by Siemens

SIEMENS

First Place

ID 42 Simulation-Optimization of a Coffee Shop in Business District: A case study of Starbucks in Mexico City

Dylan Buzali, Santiago Muñiz, Santiago Elizondo and Oroselia Sánchez.

Students, Industrial Engineering Department, Engineering School

Universidad Iberoamericana, Mexico City, Mexico City, Mexico

Oroselia Sánchez, Professor, Industrial Engineering Department,

Engineering School, Universidad Iberoamericana, Mexico City, Mexico



Undergraduate Student Paper Competition Sponsored by Siemens

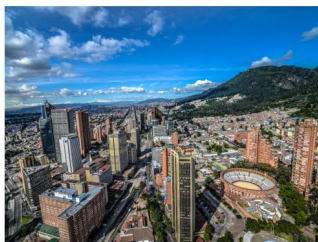
SIEMENS

First Place

ID 73 Implementación de herramientas Lean Manufacturing para la mitigación y aumento de la productividad en las MiPymes de la ciudad de Popayán

Nora Fernanda Arciniegas Sánchez, Professor, Industrial Engineering Program,
Fundación Universitaria de Popayán, Popayán – Cauca, Colombia

Jean Michael Sampayo Reyes, Student, Industrial Engineering Program, Fundación
Universitaria de Popayán, Popayán – Cauca, Colombia



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Undergraduate Student Paper Competition Sponsored by Siemens



SIEMENS

Second Place

ID 61 Optimizing Streamer Success: Streaming Schedule Through Operations Research

Jeronimo Warnholtz and Sebastián Ruiz, Undergraduate Student, Industrial Engineering, Department of Chemical, Industrial and Food Engineering, Universidad Iberoamericana, Mexico City, CDMX 01376, MX

Isidro Soria, Professor, Industrial Engineering, Department of Chemical, Industrial and Food Engineering, Universidad Iberoamericana, Mexico City, Mexico



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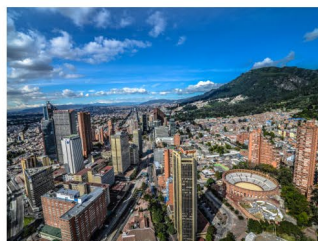
SIEMENS

Third Place

ID 47 Most effective pitches against Ronald Acuña Jr.

Luis Ornelas and Guillermo San Román, Industrial Engineering
Study Program, Universidad Iberoamericana, Mexico City, Mexico

Isidro Soria, Professor, Industrial Engineering, Department of
Chemical, Industrial and Food Engineering, Universidad
Iberoamericana, Mexico City, Mexico



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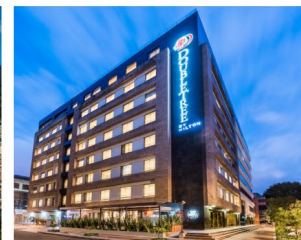
Fourth Place

ID 41 Optimizing Canine Nutrition: A Linear Programming Approach for Military Dogs' Diet

Oliver J. Saadia Harvy, Arturo Obregón Hochstrasser, Oroselia Sánchez,
Universidad Iberoamericana, Mexico City, Mexico



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SIEMENS

Fourth Place

**ID 247 Optimization of Wood Log Cutting for
Pallet Assembly Using Linear Programming Model**
Bruna Meire Kuhl Gomes and Rodrigo Luiz Gigante,
Facens University, Sorocaba, São Paulo, Brazil



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Undergraduate Student Paper Competition Sponsored by Siemens - ONLINE

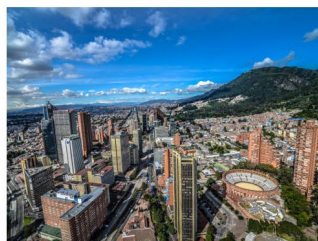
SIEMENS

First Place

ID 45 Forecasting Models Used in the Tourism Sector: A Systematic Review of Literature

Guillermo Huapaya and Aiko Makino, Facultad de Ingeniería,
Universidad de Lima, Lima, Peru

Juan Manuel Machuca De Pina, Professor, Facultad de Ingeniería,
Universidad de Lima, Lima, Peru



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Second Place

ID 27 Waste reduction through the use of Single Minute Exchange of Die in the cutting area in Small and Medium-sized Enterprises of the textile sector

Alejandra Alvarado Saenz and Carlos Urbina Jibaja, Students, Industrial Engineering, University of Lima, Lima, Peru

Miguel Shinno Huamani, Professor, Industrial Engineering Department, Engineering School, University of Lima



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Undergraduate Student Paper Competition Sponsored by Siemens - ONLINE

SIEMENS

Third Place

ID 240 Optimization of Time Efficiency in the CAPEX Purchasing Chain: A Simulation Study in the Mining Industry Using the Just-Time Method

Marcelo Adrian Arteaga-Solano, Bachelor in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

Johan Anibal Cajachagua-Sauñi, Bachelor in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

Juan Carlos Quiroz-Flores, Research Professor, Facultad de Ingeniería, Universidad de Lima, Perú



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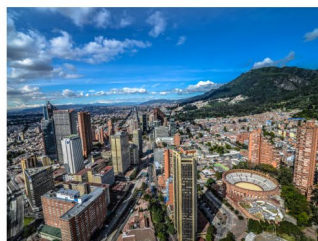


SIEMENS

Fourth Place

ID 118 Analysis of the Determining Factors Toward the Adoption of Near-Field Communication (NFC) Tag-Based Fare Collection System in the Marikina Heights UV Express Terminal

Jayvee V. Acosta, Alexandra Ysabel M. Briones, Aira Joy M. dela Rosa, Josiah Vince D. Evangelista and Nestor R. Ong, Department of Industrial Engineering, Faculty of Engineering, University of Santo Tomas, Manila, Philippines



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Undergraduate Research Competition Sponsored by Daikin Applied



First Place

ID 196 Enhancing Productivity and Sustainability in the Peruvian Textile Industry: A Lean Green Approach for Small and Medium Enterprises

Sebastian Delgado-Angeles, Bachelor in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

Alessandra Da-Silva-Huayta, Bachelor in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

Juan Carlos Quiroz-Flores, Research Professor, Facultad de Ingeniería, Universidad de Lima, Perú



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Undergraduate Research Competition Sponsored by Daikin Applied



Second Place

**ID 244 Assessment Of Ride-Hailing Apps Using Customer Satisfaction
Framework For University Of Santo Tomas Engineering Students**

Justin Mark S. Agno, Alexandrei Matthew O. Castillo Josemaria Franco, and
Nestor R, Ong, Department of Industrial Engineering, Faculty of
Engineering, University of Santo Tomas, Espana Blvd., Manila, Philippines



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Third Place

ID 200 Optimizing Productivity in the Animal Feed Industry: A Lean Approach for Enhanced Efficiency and Quality Assurance

Jenny Elizabeth Jaico-Carranza and Eduardo Manuel Olivos-Valdivia, Bachelor in Industrial Engineering, Facultad de Ingeniería, Universidad de Lima, Perú

Martin Fidel Collao-Diaz, Research Professor, Facultad de Ingeniería, Universidad de Lima, Perú



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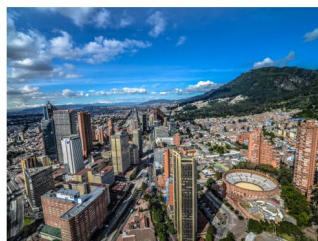


First Place



ID 86 Steelpan Sinking Quality Approach Employing Dynamic Nonlinear Finite Element Method

Peter Poon Chong, Department of Mechanical and Manufacturing Engineering,
Faculty of Engineering, St. Augustine, Trinidad and Tobago, West Indies
Terrence R.M. Lalla, Department of Mechanical and Manufacturing Engineering,
Faculty of Engineering, University of the West Indies, St. Augustine, Trinidad and
Tobago, West Indies



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Second Place

ID 37 Factors Considered by Holiday Makers in Selecting a Guesthouse in the Post-Covid-19 Pandemic Era

Bheki B.S Makhanya, Postgraduate School of Engineering Management,
Faculty of Engineering and the Build Environment, University of
Johannesburg, PO Box 524, Auckland Park 2006, South Africa



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Third Place

ID 83 Comprehensive indicators in wine filtration: Adoption in the Chilean industry, challenges, and development of a predictive model for operational decision-making

Luis Francisco Lillo Otárola, Hanns de la Fuente Mella and Jose Ceroni Diaz,
Escuela de ingeniería Industrial, Pontificia Universidad Católica de Valparaíso,
Valparaíso, Chile



Doctoral Dissertation Competition sponsored by Airbus

AIRBUS

First Place

ID 223 How can Self-Development Improve the Relationship between Human Error and Service Effectiveness in the Public Sector?

Achmad Mirza, Student in the Management Doctoral Program, Faculty of Economics, Universitas Sriwijaya, Palembang, INDONESIA

Isnurhadi and Muhammad Ichsan Hadjri, Professor at the Faculty of Economics, Universitas Sriwijaya, Palembang, INDONESIA

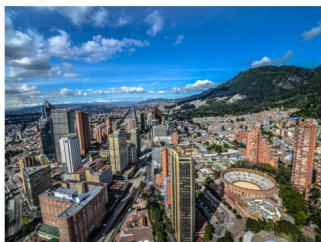


Doctoral Dissertation Competition sponsored by Airbus



Second Place

ID 203 Smart Sustainable Supply Chain Management: How Smart Supply Chain Enables the Sustainable development of Supply Chains
Laura Visintainer Lerman, Industrial Engineering Department, Engineering School, Federal University of Rio Grande do Sul, Porto Alegre, Brazil



Doctoral Dissertation Competition sponsored by Airbus



Third Place

ID 70 Midiendo la capacidad de innovación en fincas productoras de café especial en Colombia

Eyder James Ramirez Zuñiga, Hugo Castro Fernando Castro Silva and
Ehidy Karime Garcia Cruz, Universidad EAN, Universidad Pedagógica y
Tecnológica de Colombia, Universidad Nacional de Colombia, Colombia



Masters Thesis Competition

First Place

ID 30 Performance Innovation Measurement at the Territorial Level: It's Determinants in Developed Countries

Erika Julieth Serrano Rodríguez and Luis Eduardo Becerra Ardila,
School of Industrial and Business Studies, Physicomechanical
Engineering Faculty, Industrial University of Santander,
Bucaramanga, Colombia



Masters Thesis Competition

Second Place

ID 149 Strategic Aeronautical Procurement: Case Study of Supplier Selection in the Colombian Air Force

Bayron Steve Ruiz Niño, Captain, Mechanical Engineer, Aeronautical
Logistics Directorate, Colombian Air Force, Bogotá D.C., Colombia

William Javier Guerrero Rueda, Professor, IT and Process
Optimization Department, Engineering School, Universidad de la
Sabana, Bogotá, Colombia



Masters Thesis Competition

Third Place

ID 194 AI-based Drought Forecasting for Parametric Insurance

Malcolm Tanyaradzwa Mathende, Belinda Ndlovu and Sibusisiwe Dube, National University of Science and Technology, Bulawayo, Zimbabwe



Masters Thesis Competition

Fourth Place

ID 195 Optimizing Antiretroviral Therapy (ART) Adherence Through Predictive Analytics Using Machine Learning Techniques

Nyasha Winnet Chiramba, Belinda Ndlovu and Sibusisiwe Dube,
Department of Data Analytics and Informatics, Faculty of Applied Sciences
National University of Science and Technology, Bulawayo, Zimbabwe



Senior Design Project Competition sponsored by Tooling Tech Group



First Place

ID 34 BreezeGuard DualFan Hanger

Christian Chamoun, Justin Lee, Karim Omar, Sankalp Pala, Ali Pacaci and
Sepideh Abolghasem, California State University, Northridge, USA



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Senior Design Project Competition sponsored by Tooling Tech Group



Second Place

ID 29 AUTOBVM

Alexander Garcia, Daniel Cuara, Tatsuro Kajioka, Kevin Hernandez, Jeffrey Liu and Sepideh Abolghasem, California State University, Northridge, USA



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First Place

ID 24 Can LLMs Have a Fever? Investigating the Effects of Temperature on LLM Security

Chan Xing Yu, James, Chan Si Yu, David and Chow Ban Hoe, River Valley High School, Singapore

Poh Hui-Li Phyllis, Member of Technical Staff, DSO National Laboratories, Singapore

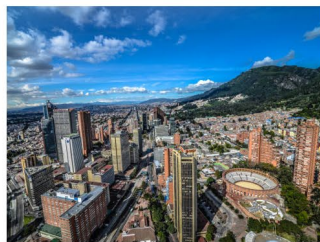


Second Place

ID 68 Upgrading legacy systems for Industry 4.0 with Node-RED and OPC-UA

Daniel Ribeiro de Sousa and Eduardo Paciência Godoy, Scientific Initiation Program PIBIC Junior CNPQ/Reitoria UNESP, São Paulo State University (UNESP) – Sorocaba Campus, Sorocaba, Sao Paulo, Brazil

Vitor Mendes Caldana, Professor, Industry Department, Federal Institute of Sao Paulo (IFSP) – Sorocaba Campus, Sorocaba, Sao Paulo, Brazil



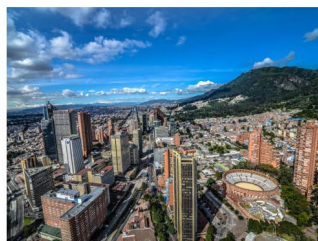
Human Factors and Ergonomics Competition sponsored by CINTAS



First Place

**ID 129 Lab-Tested: How Laboratory Design Affects The
Performance of UST Chemical Engineering Students**

Renzo Miguel M. Lanip, Therese Adrienne M. Macawile, Czarina
Danielle B. Mendoza, and Damirson A. Co, PIE, Department of
Industrial Engineering, University of Santo Tomas, Philippines



2024 IEOM
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Human Factors and Ergonomics Competition sponsored by CINTAS



Second Place

ID 119 Meditation Leads to Integrity and Acceptance

Som R. Soni and Gita D. Soni, AdTech Systems Research
Inc., 1342 North Fairfield Road, Beavercreek, Ohio, USA



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Human Factors and Ergonomics Competition sponsored by CINTAS



Third Place

ID 5 Improvement in the cutting area to increase labor productivity in the company Airin S.A. Using work design and 5s tools

Naylea Maybet Perez Medina, Faculty of Engineering and Architecture,
University of Lima, Lima, 1501, Perú

Gabriela Zuñiga Valdivia, Faculty of Engineering and Architecture,
University of Lima, Lima, 1501, Perú



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Lean Six Sigma Competition

Sponsored by BrassCraft Manufacturing Company



BrassCraft[®]
MANUFACTURING COMPANY

First Place

ID 116 Street Lighting Quality using Lean Six Sigma

Alejandro Gallegos Chocce, Professor, Industrial Engineering Department,
University of Engineering and Technology – UTEC, Lima, Perú
Blanca Harumi Palacios B. and Angela Milagros Tenorio B., Department of
Industrial Engineering, University of Engineering and Technology – UTEC,
Lima, Perú



5th South American Conference on
**Industrial Engineering &
Operations Management**
Bogota, Colombia, May 7-9 2024
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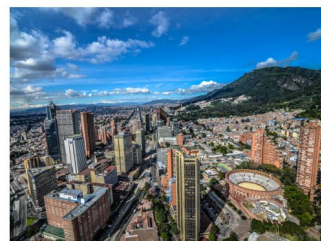


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Second Place

ID 210 Implementation of Lean Manufacturing Methodology to Increase Productivity in A Bakery Company

Jimmy André Cárdenas Peña and Jhoel Oswaldo Veliz Veliz,
Universidad de Lima, Industrial Engineering, Lima, Peru



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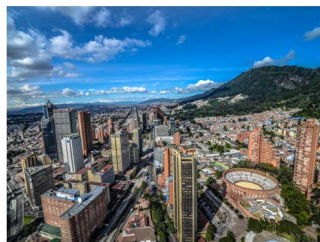
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MANUFACTURING COMPANY

Third Place

ID 226 Lean Six Sigma Logistics Model Aimed at Increasing Productivity Levels in ALMACAFE Processes

Sandra Patricia Zapata Calambas, Industrial Engineer, MBA, Cali, Colombia

Claudia Cecilia Peña Montoya, Faculty of Engineering and Basic Sciences,
Autonomous University of the West, Cali, Colombia



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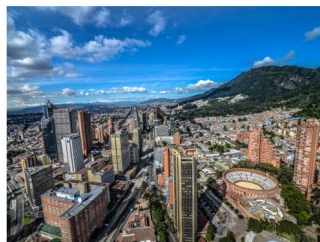
Simulation Competition

First Place

ID 67 Improving Manufacturing Layout: A Bolivian Food Company's Experience with Factory Physics and Simulation

Boris Christian Herbas-Torrico, Tecnológico de Monterrey,
Guadalajara, México

Oscar Roberto Luján Sainz, Universidad Católica Boliviana “San
Pablo”, Cochabamba, Bolivia



Simulation Competition

Second Place

ID 111 Stiffness Analysis of Hemp Stem Reinforced Concrete Composite Laminates

Som R. Soni, AdTech Systems Research Inc., 1342 North Fairfield
Road, Beavercreek, Ohio 45432, USA

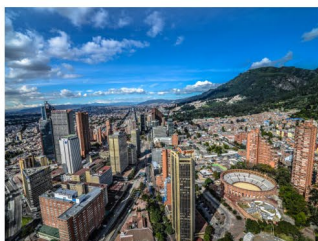
Craig Schluttenhofer and Subramania I. Sritharan, Agricultural
Research and Development Program (ARDP), Central State
University, 1400 Brush Row Road, Wilberforce, OH 45384, USA



Simulation Competition

Third Place

ID 79 Analysis of Simulation Platforms in System Dynamics for Decision Making
Laura Herrera Giraldo, Laura Milena Cárdenas Ardila,
Department of Industrial Engineering, University of Antioquia, Medellín, Colombia



Supply Chain and Logistics Competition

First Place

ID 16 Reducing Carbon Emissions in Supply Chains

Melvin Drent, School of Industrial Engineering, Eindhoven University of Technology, Eindhoven, The Netherlands



Second Place

ID 204 Optimization Analysis of Cold Chain Intermodal Transport Scheme for Agricultural Products Based on Carbon Emissions

Ahmed Mehrem, Duisburg Essen University, Germany



Supply Chain and Logistics Competition

Third Place

ID 197 Cadena de Fabricación y de Suministro Sostenible y Resiliente

Mario Fernando Ardila, Agroindustrial, Colombia



Supply Chain and Logistics Competition - Online

First Place

ID 69 Supply Chain Digital Twins: A Comprehensive Review and Case Studies

Jacob Odisho, Mahek Karamchandani, Emma Swadley and Mohamed Awwad, Industrial and Manufacturing Engineering Department, California Polytechnic State University, San Luis Obispo, CA 93407, USA

Maximilian Püttner, Department of Engineering and Management, University of Applied Sciences Munich, Lothstraße 34, 80335 Munich, Germany



Supply Chain and Logistics Competition - Online

Second Place

ID 85 Enhancing Supply Chain Sustainability in Modern Manufacturing

Silvia Carpitella, Sepideh Abolghasem and Krithik Reddy Kunta,
Department of Manufacturing Systems Engineering and
Management, California State University, Northridge, USA



Supply Chain and Logistics Competition - Online

Third Place

ID 77 Improvement Proposal Based on Machine Learning, Big Data and DDMRP to Improve Forecasting Compliance in a Consumer Goods Company

Mariscal Cruzado Diana Micaela and Gonzáles Jáuregui Bruni Piero,
Carrera de Ingeniería Industrial, Universidad de Lima, Lima, Peru
José Antonio Taquía Gutiérrez, Instituto de Investigación Científica,
Universidad de Lima, Lima, Peru



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See you at the

6th South American IEOM Conference in Sorocaba, SP, Brazil, May 13-15, 2025

Conference Chair: Dr. Rodrigo Luiz Gigante, Coordinator of
Production Engineering, FACENS University, Sorocaba, SP, Brazil

Host and Venue: FACENS University



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