

2025 IEEE Technology and Engineering Management Society Conference - Global (TEMSCON Global 2025)

**San Diego, California, USA
4-7 August 2025**



**IEEE Catalog Number: CFP257A4-POD
ISBN: 979-8-3315-4275-7**

**Copyright © 2025 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP257A4-POD
ISBN (Print-On-Demand):	979-8-3315-4275-7
ISBN (Online):	979-8-3315-4274-0

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

Monday, August 4, 2025

Workshop registration is required

09:00 – 16:00

Registration Open

Room: Pacific Foyer

10:00 – 12:00

Rolling up your sleeves: An Entrepreneurial Workshop

Room: Pacific BC

Andrea Belz, University of Southern California and IEEE TEMS President; formerly California Institute of Technology, NASA Jet Propulsion Laboratory, Ondax (acquired by Coherent), Pasadena Angels, National Science Foundation

Ravi Annaswamy, Numocity Technologies (a partially owned subsidiary of ABB) and IEEE TEMS Past President; formerly Nokia, Siemens

Sudeendra Koushik, Reva University and IEEE TEMS President-Elect; formerly Philips, Volvo

12:00 – 13:00

Lunch

Room: Pacific Foyer

13:00 – 14:30

Rolling up your sleeves: An Entrepreneurial Workshop (continued)

Room: Pacific BC

14:30 – 14:50

Coffee Break

Room: Pacific Foyer

14:50 – 16:00

Rolling up your sleeves: An Entrepreneurial Workshop (continued)

Room: Pacific BC

Tuesday, August 5, 2025

07:00 – 19:30

Registration Open

Room: Pacific Foyer

07:30 – 08:30

Breakfast *please check-in at registration before breakfast*

Room: Loma Vista Terrace

08:30 – 10:00

TuA: Opening Ceremony & Plenary I

Session Chair: Andrea Belz (University of Southern California, USA)

Room: Pacific BC

TuA.1: Opening Ceremony

Tariq Samad, University of Minnesota

Andrea Belz, University of Southern California

Rakesh Kumar, Chair IEEE Future Directions & DataPort President, Technology Connexions Inc.

TuA.2: Plenary I: Effective Partnerships Between Engineering and Business Schools

Lisa Ordóñez, Dean of Rady School of Management, University of California San Diego

Al Pisano, Dean of the Jacobs School of Engineering, University of California San Diego

10:00 – 10:20

Coffee Break

Room: Pacific Foyer

10:20 – 11:50

TuB1: Generative AI and Large Language Models

Session Chair: Ramkinker Singh (Palo Alto Networks, Inc, USA)

Room: Pacific BC

10:20

Using LLMs to Accelerate the Development of Blockchain-Based Solutions: a Case Study on Controlled Medication Management...1

Ruba Islayem, Khaled Salah and Ahmad Musamih (Khalifa University of Science and Technology, United Arab Emirates); Raja Jayaraman (New Mexico State University, Las Cruces, NM, USA); Dragan Boscovic (Arizona State University, USA)

10:35

Leveraging LLMs for Rapid Development of Regulatory-Compliant Software in Healthcare...7

Mohammad Moussa Madine (Khalifa University, United Arab Emirates); Ahmad Musamih and Khaled Salah (Khalifa University of Science and Technology, United Arab Emirates); M. Jamal Zemerly (Khalifa University, United Arab Emirates); Samer Ellahham (Cleveland Clinic Abu Dhabi, United Arab Emirates); Raja Jayaraman (New Mexico State University, Las Cruces, NM, USA)

10:50

Hybrid Deep Learning and XGBoost Models for Enhanced Energy Forecasting: a Comparative Analysis...13

Vinoth Nageshwaran (Business Insider, USA); Sathish Nageshwaran (NVIDIA, USA)

11:05

Expanding the Reach of Generative AI to Industry: the Case of Domain Adaptation...18

Erik Scepanski and Ronald Schnitzer (Technical University Munich, Germany); Christian Jaremenko (SIEMENS AG, Germany); Sonja Zillner (Technical University Munich, Germany)

11:20
Optimizing Deployment Strategies for Large Language Models: a Comparative Analysis of Cloud, on-Premises, and Hybrid Solutions for Enhanced Efficiency and Continuous Improvement...24
Ramkinker Singh (Palo Alto Networks, Inc, USA); Madhuri Sesha Sarma (Hult International Business School, USA)

11:35
Mission Reliability Assessment for Autonomous Vehicles Considering the State Dependence of End-to-End Latencies...31
Luyao Wang and Yan-Fu Li (Tsinghua University, China)

10:20 – 11:50
TuB2: Industry 1: Developing and operationalizing an IP strategy
Room: Pacific A

Ross Epstein, Partner, Intelink Law Group PC

Bill LaFontaine, WRL Technology Advisors; former General Manager, IP, IBM

Jeffrey Yu, George Washington University; formerly Northrop Grumman Corporation

Sudeendra Koushik, Reva University and IEEE TEMS President-Elect; formerly Philips, Volvo

11:50 – 13:00
Lunch (on own)

13:00 – 13:45
TuC1: Semi-plenary I
Session Chair: Sabine Baumann (OFFIS Institute for Information Technology & Berlin School of Economics and Law, Germany)
Room: Pacific BC

Semi-plenary I: Engineering the Future: Technology Megatrends, Ethics, and Policy

Ravikiran Annaswamy, CEO, Numocity Technologies

13:00 – 13:45
TuC2: Semi-plenary II
Session Chair: Andrea Belz (University of Southern California, USA)
Room: Pacific A

Semi-plenary II: New Models to Generate Social Impact with AI at Scale

Dan Jarratt, Vice President of Data Science, Education Analytics

13:55 – 15:25
TuD1: Technology Management and Decision-Making: The Control Systems Analogy (Invited Session)
Session Chairs: Tariq Samad (University of Minnesota) & Esko K. Juuso (University of Oulu, Finland)
Room: Pacific BC

13:55
Technology Management and Decision Making: the Control System Analogy...33
Tariq Samad (University of Minnesota, USA)

14:10
Mitigating Demand Fluctuations in Long Supply Chains Through Dataspace...39
Francesco Alessandro Cuzzola, Walter Quadrini and Marco Taisch (Politecnico di Milano, Italy)

14:25

Predictive and Managerial Framework for Decision-Making in Conflict Zones...45

Maryna Zharikova (Kherson National Technical University, Germany); Stefan Pickl (UBw Munich & COMTESSA, Germany)

14:40

Advanced Data Analysis for Case-Based Coordinating and Strategic Decision Support...49

Esko K. Juuso (University of Oulu, Finland)

14:55

Truth Assessment in Linguistic Modeling for Management Decision Making...56

R. Russell Rhinehart (Oklahoma State University, USA)

13:55 – 15:25

TuD2: Industry 2: AI-Powered Project Management: Redefining How We Lead, Build, and Deliver

Room: Pacific A

Megha Ben, Systems Project Manager, Siemens

Abir Chermiti, IEEE, Entrepreneur; formerly Accenture

Yusra Magouri, Expedia, Salesforce; formerly eBay, Microsoft

Ines Nasri, WebPower USA

Shweta Neglur, Qualcomm

Bouthaina Tlili, Rochester Institute of Technology, Dubai and IEEE TEMS WIE Liaison and Member at Large; formerly Michigan State University Dubai; American University in Dubai



15:25 – 15:45

Coffee Break

Room: Pacific Foyer

15:45 – 17:15

TuE1: Organizational Performance

Session Chair: Inhyeock Ian Lee (Quinlan School of Business, Loyola University Chicago, USA)

Room: Pacific BC

15:45

Development of an Exploratory Maturity Assessment Model for Smart Healthcare: Case of Telemedicine...62

Salman Alshmrani and Tugrul Daim (Portland State University, USA)

16:00

Social vs. Environmental Activities on Digital Media and Firm Performance...69

Inhyeock Ian Lee and Yoo Na Youm (Quinlan School of Business, Loyola University Chicago, USA)

16:15

Enhancing Pharmaceutical Logistics Efficiency in Large Thai Hospitals: Policy Recommendations and Technological Innovations...75

Ganda Boonsothonsatit, Parameth Voraseyanont and Pathomporn Chitchaiman (King Mongkut's University of Technology Thonburi, Thailand)

16:30
Fusing the Attention-Based View with the Behavioral Theory of the Firm: Lessons Learned from Digital Transformation...80
Cheng-Yu Lee (National Chiayi University, Taiwan); Phuong-Dung Thi Nguyen (Foreign Trade University, HCMC Campus, Ho Chi Minh City, Vietnam)

16:45
Competitive Advantage in a Small and Medium-Sized Manufacturing Company: a Case Study of Turbo Molecular Pump Business Focusing on Organizational Intelligence...82
Isao Tashiro (Japan Advanced Institute of Science and Technology, Japan); Kunio Shirahada (Japan)

17:00
Blockchain's Role in Addressing Challenges in the Development of Regenerative Business Models...85
Claudia Franzè (American University of Beirut Mediterraneo); Mariam Al Khatib (American University of Beirut Mediterraneo, Cyprus); Sabine Baumann (OFFIS Institute for Information Technology & Berlin School of Economics and Law, Germany)

15:45 – 17:15
TuE2: Industry 3: Managing technical teams today
Room: Pacific A

Ade Adesanya, Founder and President, Movn Health

Mike Moreno, VP Strategy, Lunar Outpost; formerly ViaSat, Amazon Web Services (Global VC and Partner Startup Strategy)

Puneet Sharma, Fellow and VP, HPE Labs

Sai Chiligreddy, Engineering Leader, Amazon

Ravikiran Annaswamy, Numocity Technologies (a partially owned subsidiary of ABB) and IEEE TEMS Past President; formerly Nokia, Siemens



17:30 – 18:30
TuF: Recognition with IEEE Membership
Room: Pacific A

Learn about ways to demonstrate your expertise with IEEE membership! IEEE has several membership categories to help you describe your level of knowledge and position in the community. The TEMS President-Elect will discuss the Senior Member grade, the highest level for which members can apply. Qualified members can prepare Senior Member applications on the spot, with help from TEMS volunteers. Furthermore, the TEMS leader for the IEEE Fellow Evaluation Committee will discuss the IEEE Fellow process. You will have the opportunity to ask all your questions to prepare high-quality nominations.

Tariq Samad, University of Minnesota

Sudeendra Koushik, Innovation by Design

Min Xie, City University of Hong Kong

Puneet Sharma, Hewlett Packard Enterprises

18:30 – 19:30
TuG: Beach Buzz: Entrepreneurial Pitch Session
Session Chair: Ravikiran Annaswamy (Numocity Technologies, India)
Room: Pacific BC

Wednesday, August 6, 2025

07:00 – 18:30

Registration Open

Room: Pacific Foyer

07:30 – 08:30

Breakfast

Room: Loma Vista Terrace

08:30 – 10:00

WeA: Plenary II & III

Session Chair: Tariq Samad (University of Minnesota, USA)

Room: Pacific BC

WeA.1: Plenary II: Innovation Nation: Imperatives for Technology Management

Maryann Feldman, Watts Professor of Public Policy and Management, Arizona State University

WeA.2: Plenary III: Technological Leadership for Resilient and Sustainable Futures

Massoud Amin, CTO of Renewable Energy Partners and Chairman, EPS Associates

10:00 – 10:20

Coffee Break

Room: Pacific Foyer

10:20 – 11:50

WeB1: Innovation & Entrepreneurship

Session Chair: Pamela Danese (University of Padova, Italy) & Binesh Kumar (Atom Power Inc., USA)

Room: Pacific BC

10:20

Open and Digital Innovation: Intellectual Structure, Global Trends, and Future Research Directions...88

Uchechukwu Nwogu (Dalhousie University, Canada); Muhammad Faraz Mubarak (Dalhousie University, Canada & Kaunas University of Technology, Lithuania); Marco Cuvero (Brunel University London, United Kingdom (Great Britain)); Richard D Evans (Dalhousie University, Canada)

10:35

Collaborative Innovation in Early-Stage Startups: Insights from Nova Scotia's Innovation Ecosystem...94

Uchechukwu Nwogu (Dalhousie University, Canada); Muhammad Faraz Mubarak (Dalhousie University, Canada & Kaunas University of Technology, Lithuania); Marco Cuvero (Brunel University London, United Kingdom (Great Britain)); Richard D Evans (Dalhousie University, Canada)

10:50

Using Social Media During an Earthquake: the Case of Ahbap...100

Deniz Tuncalp (Istanbul Technical University, Turkey); Dilek Cetindamar Kozanoglu (University of Technology Sydney, Australia)

11:05

Tailoring Injection Molding Parameters to Recycling History: a Full-Factorial Analysis of Property Optimization in Recycled Polypropylene...105

Daniel Stehle, David Exposito Gallardo, Maximilian Kromen and Tobias Renkert (Cooperative State University Baden-Wuerttemberg, Germany)

11:20

Exploring a Social Cooperative in the Circular Economy Through the Resource Orchestration Theory...110

Mateja Zavadlav (University of Udine, Italy); Pamela Danese (Italy); Pietro Romano (University of Udine, Italy)

11:35

Unintended Consequences of Contingent Earnouts on the Target Firm's Innovation...113

Jiawei Lin (Shanghai Jiao Tong University, China); S. X. Zeng (Shanghai Jiaotong University, China)

10:20 – 11:50

WeB2: Industry 4: Keeping Up with AI-Driven Value Creation

Room: Pacific A

Swati Chaturvedi, Founder and CEO Propel(x) deep tech investment platform; Founder, MIT Angels; formerly Capgemini

Praveen Gujar, LinkedIn; formerly Siemens, Twitter; IEEE TEMS Marketing Chair

Darby Vickers, University of San Diego

Arun Tanksali, Cofounder and CTO, Nearex (acquired by Mastercard) and IEEE TEMS Treasurer

11:50 – 13:00

Lunch (on own)

13:00 – 13:45

WeC1: Semi-plenary III

Session Chair: Richard Evans (Dalhousie University, Canada)

Room: Pacific BC

Semi-plenary III: Technology Leadership and Innovation in the Age of Healthtech

Marke Wehde, Chair of Engineering, Mayo Clinic

13:00 – 13:45

WeC2: Semi-plenary IV (virtual)

Session Chair: Alexander Brem (University of Stuttgart, Germany & University of Southern Denmark, Denmark)

Room: Pacific A

Semi-plenary IV: How AI Accelerates and Enhances the New Product Development Process: A Focus on the Front End

Robert Cooper, Professor Emeritus, McMaster University

13:55 – 15:25

WeD1: AI-Driven Innovation and Digital Twins: Revolutionizing Smart Warehousing and Logistics (Invited Session)

Session Chair: Nirmal Kumar Balaraman (Inframark LLC, USA) & Prabhakaran Rajendran (CSCS LLC, USA)

Room: Pacific BC

13:55

Optimizing Supply Chain and Lean Manufacturing Using Digital Twins in the Aerospace and Automotive Industries...115

Ramanan Viswanathan (Generac, USA)

14:10

Deep Learning-Based Domain Adaptation for Predictive Maintenance of Ball Screw Feed Drives Using Maximum Mean Discrepancy...121

Ramakrishna Garine (University of North Texas, USA); Nirmal Kumar Balaraman (Inframark LLC, USA)

14:25

AI-Driven Innovation and Digital Twins: Integrating MHE Automation to Enhance Smart Warehousing, Logistics, and FSMA Compliance in the Food Industry...127

Nirmal Kumar Balaraman (Inframark LLC, USA); Prabhakaran Rajendran (CSCS LLC, USA); Sridhar Thirumalai (Walmart Inc, USA); Devayani Borse (Company, USA)

14:40

Digital Twin for Managed Transportation - Transforming Logistics with AI-Driven Supply Chain Optimization...133

Manoj Bhalerao (Hub Group, USA)

14:55

Implementing Next-Gen Predictive Maintenance in Industrial Machineries: a Comparative Analysis of Small, Medium & Large Enterprises...139

Krunal Patel (None, India); Aishvarya Hariharan (Wichita State University, USA); Rahul Sucharitha (Greif, Inc., USA)

15:10

A Maturity Model for Supply Chain Resilience and Future Directions...142

Senthilkumar Thiyagarajan (Purdue University, West Lafayette, IN USA, USA); Raja Jayaraman (New Mexico State University, Las Cruces, NM, USA)

13:55 – 15:25

WeD2: Industry 5: Seeing around corners: Industrial domination with AI and other new technologies

Room: Pacific A

Andrea Belz, University of Southern California and IEEE TEMS President; formerly California Institute of Technology, NASA Jet Propulsion Laboratory, Ondax (acquired by Coherent), Pasadena Angels, National Science Foundation

Gene Dantsker, Independent consultant and EvoNexus; formerly Amazon, Qualcomm, TRW

15:25 – 15:45

Coffee Break

Room: Pacific Foyer

15:45 – 17:15

WeE1: Sustainability

Session Chair: Alexander Brem (University of Stuttgart, Germany & University of Southern Denmark, Denmark) & Raja Jayaraman (New Mexico State University, Las Cruces, NM, USA)

Room: Pacific BC

15:45

Proof of Sustainability of Clothing in the Fashion Industry Using Blockchain...148

Zein Sami Altawil, Shamma Alwheibi and Walaa Alkhader (Khalifa University, United Arab Emirates); Khaled Salah (Khalifa University of Science and Technology, United Arab Emirates); Raja Jayaraman (New Mexico State University, Las Cruces, NM, USA); M. Jamal Zemerly (Khalifa University, United Arab Emirates); Zeyar Aung (Khalifa University of Science and Technology, United Arab Emirates); Jiju Antony (Northumbria University, United Kingdom (Great Britain))

16:00

The Integration of Sustainable Design and Responsible Project Management in Designing Complex Product Service Systems: a Case Study of Smart HVAC Control System Design...154

Yiting Zhao, Lihong Zhang and Eunice Maytorena-sanchez (The University of Manchester, United Kingdom (Great Britain))

16:15

Rethink Green Transformation of Manufacturing Industry from Interdisciplinary Engineering Thinking and Economy Perspective...160

Juncheng Pan and Junjie Pan (China)

16:30

Emissions Impossible: Five AI "What If" Scenarios for Emission Reduction...164

Shikha Soneji (Pennsylvania State University, USA & ADP, USA); Sameer Neve (Independent Researcher, USA)

16:45

Investigating CSR Reporting and CSiR Dynamics Using Support Vector Machine: Insights from China...171

Chia-Jung Lee (National Yunlin University of Science and Technology, Taiwan); Chia-Chi Chang (National University of Kaohsiung, Taiwan)

17:00

Dominant Designs: Explaining Standardization in Ecosystems and Sustainability Transitions...173

Alexander Brem (University of Stuttgart, Germany & University of Southern Denmark, Denmark); Petra Nylund (University of Stuttgart, Germany)

17:15 – 18:30

WeF: IEEE & TEMS Open House Reception

Room: Pacific A

17:30 – 18:30

WeF: Mentoring Meet

Room: Pacific BC



19:00 – 21:00

Conference Banquet

Room: Loma Vista Terrace

Thursday, August 7, 2025

07:00 – 16:00

Registration Open

Room: Pacific Foyer

07:30 – 08:30

Breakfast

Room: Loma Vista Terrace

08:30 – 10:00

ThA1: TEMS Early-Career Forum: The Academic Launchpad

Session Chair: Noorlizawati Abd Rahim (University of Technology Malaysia, Malaysia)

Room: Pacific BC

Richard Evans, Dalhousie University

Eduardo Ahumada-Tello, Universidad Autónoma de Baja California

Alexander Brem, University of Stuttgart & University of Southern Denmark

Sabine Baumann, OFFIS Institute for Information Technology & Berlin School of Economics and Law

08:30 – 10:00

ThA2: Education & Knowledge Management

Session Chairs: Johannes Kern (Baden-Wuerttemberg Cooperative State University (DHBW), Germany) & Gloria J. Miller (Maxmetrics, Germany)

Room: Pacific A

08:30

Teaching Future Skills Through Interdisciplinary Problem-Based Learning: a Three-Year Capstone Study...175

Johannes Kern (Baden-Wuerttemberg Cooperative State University (DHBW), Germany)

08:45

High Performance Computing Research Landscape: a Topic Modeling Approach...181

Hwasun You (Korea Institute of Science and Technology Information, Korea (South)); Myunggwon Hwang (Korea Institute of Science and Technology Information (KISTI), Korea (South)); Jangwon Choi (Korea Institute of Science and Technology Information (KISTI), Korea (South))

09:00

Strategic Product Management Education in the Era of Artificial Intelligence...188

Sathya Prasad (Director Center for Innovation & Entrepreneurship at PES University & Senior Member, IEEE, India); Raghavendra Deshmukh and Madhukar Narasimha (PES University, India)

09:15

Level of Automation and Accountability in Artificial Intelligence (AI) Projects: an Empirical Study...194

Gloria J. Miller (Maxmetrics, Germany)

09:30

Using Artificial Intuition in Distinct, Minimalist Classification of Scientific Abstracts for Management of Technology Portfolios...200

Andrea Belz (University of Southern California, USA); Fred Morstatter (University of Southern California & USC Information Sciences Institute, USA); Prateek Ranka (DJ Sanghvi College of Engineering, India); Alexandra Graddy-Reed (University of Southern California, USA)

09:45

Unpacking the Relationship Between Knowledge Stock and R&D Alliance Formation: the Influence of Knowledge Diversity...207

Chia-Chi Chang (National University of Kaohsiung, Taiwan); Phuong-Dung Thi Nguyen (Foreign Trade University, HCMC Campus, Ho Chi Minh City, Vietnam)

10:00 – 10:20
Coffee Break
Room: Pacific Foyer

10:20 – 10:50
ThB1: TEMS Early-Career Forum: The Academic Launchpad (continued)
Room: Pacific BC

10:20 – 11:50
ThB2: Logistics & Supply Chains
Session Chairs: Manoj Bhalerao (Hub Group, USA) & Prashanth Cecil (Amazon INC, USA & University of Michigan, USA)
Room: Pacific A

10:20
Emission-Conscious Optimization in Reverse Logistics: Integrating Environmental and Social Objectives in Location-Routing Problems...209
Mozhgan Jahanafroozi (UPHF, France); Abdessamad Ait El Cadi (Université Polytechnique Hauts-de-France, France & LAMIH & INSA Hauts-De-France, France); Abdelghani Bekrar (University Polytechnic Hauts-de-France, France); Abdelhakim Artiba (Université Polytechnique Hauts-De-France, France)

10:35
Sustainable Rail Cold Chain Logistics for Cost-Effective Agricultural Supply Chains...215
Ganda Boonsothonsatit, Parameth Voraseyanont and Rachata Khumboon (King Mongkut's University of Technology Thonburi, Thailand)

10:50
Leveraging 3D Printing Technology for Advancing Circular Economy to Promote Sustainable Practices...221
Thamaga Lucas Mohube Makua, Getnet Bogale Fanta and Leon Pretorius (University of Pretoria, South Africa)

11:05
Warehouse Network Optimization: Hybrid Approach Using Spatial Demand Analytics and ML Based Optimization...227
Bhubalan Mani (Garmin International, Inc., USA); Yashodhan Shirolkar (ICU Medical, Inc., USA)

11:20
Addressing the Factors Influencing the Adoption of Business Intelligence and Analytics: a South African Production and Manufacturing Case...233
Kgololosego Kototsi, Getnet Bogale Fanta and Leon Pretorius (University of Pretoria, South Africa)

11:35
Managing Disruption of Enterprise System Order in Resilience of Supply of Aviation Fuels...240
Nicholas D Jabs, Davis C Loose, Matthew C Gunn and Lisa Peterson (University of Virginia, USA); James H. Lambert (UVa, USA)

11:50 – 13:00
Lunch (on own)

13:00 – 14:15
ThC1: Policy & Governance
Session Chairs: Eduardo Ahumada-Tello (Universidad Autónoma de Baja California, Mexico) & Yashodhan Shirolkar (ICU Medical, Inc., USA)
Room: Pacific BC

13:00
JobPulse: a Big Data Approach to Real-Time Engineering Workforce Analysis and National Industrial Policy...246
Andrea Belz (University of Southern California, USA); Karen S Markel (University of Colorado Colorado Springs, USA); Mihir S Tale (University of Southern California, USA)

13:15

Building Climate Resilience in Mexicali: Permaculture, Circular Economy, and Sustainable Policies...253

David Romero-Gómez (Universidad Autónoma de Baja California, Mexico & Tecnológico Nacional Campus Tijuana, Mexico); Muhammad Faraz Mubarak (Dalhousie University, Canada & Kaunas University of Technology, Lithuania); Rodolfo Martínez-Gutiérrez (Instituto Tecnológico de México, Mexico); Oscar Omar Ovalle-Osuna (Autonomous University of Baja California, Mexico); Eduardo Ahumada-Tello (Universidad Autónoma de Baja California, Mexico)

13:30

The Challenger and Space Shuttle Failures Were Due to Bureaucratic Deviance...259

Harry W Jones (NASA Ames Research Center, USA)

13:45

Design a Novel Information Management Mechanism to Proactively Control Pollution Governance Cheating...265

Junjie Pan (China)

14:00

Leveraging Microfinance for Solar Energy Access: Policy and Practice in Rural Areas for Sustainable Development of Marginalized Rural Communities...271

Mohit Kumar Gautam (Indian Institute of Technology Kharagpur, India); Rudra Prakash Pradhan (Vinod Gupta School of Management, IIT Kharagpur, India)

13:00 – 14:15

ThC2: Digital Transformation

Session Chair: Ramachandra Handaragal (Peloton Consulting Group, USA & ILLINOIS TECH, USA) & Jennifer Woolley (Santa Clara University, USA)

Room: Pacific A

13:00

Exploring the Role of Stakeholders in Driving Digital Transformation...274

Mohamad Ali Mezher and Indra Gunawan (The University of Adelaide, Australia); Sajad Fayezi (University of South Australia, Australia)

13:15

Collaboration in the Digital Age: Sharing Nonmaterial Digital Resources Across Partnering Firms...280

Jennifer L. Woolley and Shaohua Lu (Santa Clara University, USA)

13:30

Navigating Digital Transformation in Heritage Cities: Challenges and Opportunities for Suzhou's Micro-Businesses...288

Fawad Ahmed (Xian Jiaotong-Liverpool University, Suzhou, Jiangsu, China); Qiaoqiao Xiang and Jiaxin Guo (Xi'an Jiaotong-Liverpool University, China)

13:45

From Data Gaps to Effective Emergency Management: Redesigning a Digital Platform for Industrial Safety...292

Wendy Florian-Pacheco (Universidad Simón Bolívar, Colombia); Cesar Vilorio-Nuñez (Universidad Tecnológica de Bolívar, Colombia); Miguel Jimeno (Universidad del Norte & IEEE, Colombia); Jairo Cardona (Norte University, Colombia); Jairo Sacoto (Universidad Politécnica Salesiana, Ecuador)

14:00

Exploring Digital Transformation Models in Latin America: Insights from Tech Firms in Cuenca, Ecuador...298

Jairo Sacoto (Universidad Politécnica Salesiana, Ecuador); Cesar Vilorio-Nuñez (Universidad Tecnológica de Bolívar, Colombia); Francisco J. Vazquez and Carlos M Fernández Márquez (Universidad Autónoma de Madrid, Spain); Yair Rivera Julio (Corporación Universitaria Americana, Colombia)

14:40 – 15:40

ThD1: Applications of Artificial Intelligence

Session Chair: Bhubalan Mani (Garmin International, Inc., USA)

Room: Pacific BC

14:40

Resilient-by-Design: How Intelligent Automation Reinforces Supply Chains via Integrability and Visibility...N/A

Mobashar Mubarik, Phd and Saule Maciukaite-Zviniene (Vilnius University, Lithuania)

14:55

Neural Pathways to Program Success: Hopfield Networks for PERT Analysis...304

Azgar Ali Noor Ahamed (Google LLC, USA)

15:10

Trust and Fraud in Decentralized Digital Transactions: a Structural Equation Modeling Approach Integrating Blockchain and Artificial Intelligence...310

Sultan A Alghamdi (University of Jeddah, Saudi Arabia)

15:25

Middleware Architecture for the Management and Mitigation of OWASP ML05: Model Theft in IoT Machine Learning Networks...318

Yair Rivera Julio (Corporación Universitaria Americana, Colombia); Ángel Pinto (Universidad del Sinu, Spain); Nelson Perez (Universidad de Los Andes, Venezuela); Monica Huerta (Universidad Politécnica Salesiana, Ecuador); Cesar Viloria-Nuñez (Universidad Tecnológica de Bolívar, Colombia); Marvin Luis Perez Cabrera (Universidad Cooperativa de Colombia, Colombia); Frank Ibarra Hernandez and Juan Torres Tovia (Universidad del Sinú, Colombia); Jairo Sacoto (Universidad Politecnica Salesiana, Ecuador)

14:40 – 15:55

ThD2: Organizational and Technology Management

Session Chair: Mark S Rutkiewicz (Consiliso, USA)

Room: Pacific A

14:40

Using Systems Thinking to Design Reconfigurable Organizations...324

Mark S Rutkiewicz (Consiliso, USA)

14:55

The Problem of Fantasy Projects.....330

Harry W Jones (NASA Ames Research Center, USA)

15:10

Performance Improvement Through Lean with Quality Management System: Case of Karachi Shipyard & Engineering Works...336

Syed Muhammad Umer Abdi (University of Arkansas, Little Rock, USA); Ali Nawaz Sanjrani (UESTC, China); Kamran Iqbal (University of Arkansas at Little Rock, USA)

15:25

Gamified Route Optimization: a Metaheuristic Approach to Human-Centric Urban Logistics...344

Ramakrishna Garine (University of North Texas, USA); Nihari Paladugu (Southern New Hampshire University, USA); Somesh Nagamadan Nagalla (7 Eleven, USA); Gayathri Garine (University of North Carolina Charlotte, USA); Sudheer Obbu (Osmania University, India)

15:40

Disruption-Aware Simulation Framework for Supply Chain Delay Prediction Using Machine Learning...350

Ramakrishna Garine (University of North Texas, USA); Nihari Paladugu (Southern New Hampshire University, USA); Somesh Nagamadan Nagalla (7 Eleven, USA); Gayathri Garine (University of North Carolina Charlotte, USA); Hrishikesh Tawade (Ample Inc, USA)

15:55 – 16:10

Coffee Break

Room: Pacific Foyer

16:10 – 16:30

ThE: Closing Ceremony

Room: Pacific BC