

165th Conference
Scientific Federation



 HOLIDAY INN Prague Congress Centre Na Pankráci
15/1684, 140 21 Prague 4, Czech Republic

Scientific Program

International Congress and Exhibition on **Industrial and Manufacturing Engineering**

August 15-16, 2019 | Prague, Czech Republic



Scientific Federation
Panjagutta, Hyderabad, Telangana-500082, India

Day 1 August 15, 2019

Ashton 3

- 08:00-09:00 Registrations
09:00-09:15 Introduction & Opening Words

Plenary Forum

- 09:15-09:55 **Title: Forecasting the Future Energy Production using Hybrid Artificial Neural Network and ARIMA Model**
Majid Jaridi, West Virginia University, USA
- 09:55-10:35 **Title: A Real-time Energy Management Platform**
Jie Chen, Indiana University-Purdue University Indianapolis, USA
- 10:35-11:15 **Title: Development of Intelligent Surface Roughness and Tool Wear Estimation Technologies Based on Machining Knowledge and Data Classification**
Jhy-Cherng Tsai, National Chung-Hsing University, Taiwan

Refreshments Break 11:15-11:30 @ Foyer

Keynote Forum

- 11:30-12:00 **Title: The Inspection of Inter Critical Annealing on SCM435 Alloy Steel Wires with a Protective Atmosphere of Hydrogen**
Chih-Cheng Yang, Kao Yuan University, Taiwan
- 12:00-12:30 **Title: Biomaterial for Sustainable Engineering and Technology**
Melba D. Horton, Southeastern University, USA
- 12:30-13:00 **Title: Intelligent Casting Process Base on Skeletal Sand Mold Driven by Additive Manufacturing**
Jinwu Kang, Tsinghua University, China

13:00-13:05

Group Photo

Lunch Break 13:05-14:00 @ Ashton 2

Oral Talks

Sessions
Design & Systems | Systems Engineering | Manufacturing Technology |
Environmental Impact of Industrial Engineering | Flexible Manufacturing |
Operations Research, Management and Optimization Techniques | Reliability
Engineering | Production Engineering

Session Chair Majid Jaridi, West Virginia University, USA

Session Co-chair Jhy-Cherng Tsai, National Chung-Hsing University, Taiwan

- 14:00-14:25 **Title: Sustainable Renovation 4.0: Life Cycle Perspective**
Lizhen Huang, Norwegian University of Science and Technology, Norway
- 14:25-14:50 **Title: X-Y Stage System for Raman Scanning in Paintings**
Theodore Ganetsos, University of West Attica, Greece
- 14:50-15:15 **Title: Using a SELR Approach to Develop a Winning Team to Meet Ever-Changing Demands**
Lawrence J. H. Schulze, University of Houston, USA
- 15:15-15:40 **Title: Solution for the Perpetual Problems of Job Shops**
James R. Holt, Washington State University, Slovak Republic
- 15:40-16:05 **Title: Aero Engine Manufacture & 3D Printing**
Anjenq Wang, Shanghai Jiao Tong University, China

Refreshments Break 16:05-16:20 @ Foyer

- 16:20-16:45** **Title: Applications of Data Mining for Stock Investment – A Case Study of Taiwan ETF50**
Muh Cherng Wu, National Chiao Tung University, Taiwan
- 16:45-17:10** **Title: Opportunity Maintenance Decision of the Series System Considering Human Resource and Minor Repair Cost**
Zuhua Jiang, Shanghai Jiao Tong University, China
- 17:10-17:35** **Title: Textile Medical Devices for Parietal Defects**
Visileanu Emilia, The National Research and Development Institute for Textiles and Leather, Romania

Closing the Conference for the Day 1

Day 2 August 16, 2019

Ashton 3

Plenary Forum

- 09:15-09:55** **Title: Market-driven Approach to Product Line Design with Consideration of Product Refurbishment**
C.K. Kwong, The Hong Kong Polytechnic University, Hong Kong
- 09:55-10:35** **Title: Remanufacturing and Validation of Damaged Oil & Gas Equipment using Additive Manufacturing**
Paul Xirouchakis, University of Strathclyde, UK
- 10:35-11:15** **Title: Analysis of Markovian Queues with Changeable Service Rates and Strategic Customers**
Zhe George Zhang, Simon Fraser University, Canada

Refreshments Break 11:15-11:30 @ Foyer

Keynote Forum

- 11:30-12:00** **Title: Phenomenological Consideration of Heat Treatment Process Conditions on Liquid Crystal Polymer Polyarylate(LCP-PAR) Fibrillation**
Han-Yong Jeon, Inha University, South Korea
- 12:00-12:30** **Title: Analysis of the Impact of Patient Socioeconomic Status on Predicting Clinical Outcomes**
Leily Farrokhvar, West Virginia University, USA

Oral Talks

Sessions **Production Planning and Control | Financial Engineering | Production Engineering | Supply Chain Management | Manufacturing Technology**

Session Chair **Jinwu Kang, Tsinghua University, China**

Session Co-chair **Han-Yong Jeon, Inha University, South Korea**

- 12:30-12:55** **Title: Planning of the Production and Maintenance Activities of the Degraded Manufacturing Systems in Reverse Logistics**
Jean-Pierre Kenne, University of Quebec, Canada

Lunch Break 12:55-14:00 @ Ashton 2

- 14:00-14:25** **Title: A Preliminary Examination of Operational Effects of Imperfect Quality with Inspection Errors**
Moshe Eben-Chaime, Ben Gurion University of the Negev, Israel
- 14:25-14:50** **Title: An Enhanced Emergency Shipment Policy in a Review Period Policy**
Saeed Poormoaid, Technical University of Eindhoven, Netherlands
- 14:50-15:15** **Title: New Challenges and Trends in the Study of Inventory Routing Problems**
Raul Fabian Roldan Narino, Pontificia Universidad Javeriana, Colombia
- 15:15-15:40** **Title: Automated Driver's Assessment and Driving Simulator System**
Rionel B. Caldo, Multi-Axis Handlers & Tech. Inc., Philippines
- 15:40-16:05** **Title: The Electrospun 1D Nano-Materials and their Application Possibilities**
Wiktor Matysiak, Silesian University of Technology, Poland

Video Presentations

- V-001** **Title: New Manufacturing Techniques for Advanced Structure Materials**
Shaghayegh Bagheri, University of Ontario Institute of Technology, Canada
- V-002** **Title: Risk-Neutral Two-Stage Stochastic Mixed-Integer Linear Programming in Scheduling Multiple Patient Types at Outpatient Clinic under Patients' No-Show Behavior and Preference**
Samira Fazel Anvaryazdi, Louisiana Tech University, USA

Poster Presentations

- P-001** **Title: Control of Thermal Spray Process via Single Splat Analysis**
Masahiro Fukumoto, Toyohashi University of Technology, Japan
- P-002** **Title: Innovative Urban Transportation Means Developed by Integrating Design Methods**
Francesco Di Bucchianico, University of Bologna, Italy
- P-003** **Title: Experience with International Dual Degree MS Program**
Manohar R. Kulkarni, Northwestern University, USA
- P-004** **Title: Design of Multi-Motion Model Robot with Three-Section Circular Leg Shape**
Sun Xiaotian, Yonsei University, South Korea
- P-005** **Title: Emission and Energy Savings Optimization of Industrial Waste Heat Recovery by Total Site Heat Integration for Dynamic Heat**
Simon Mohren, Hochschule Niederrhein University of Applied Science, Germany
- P-006** **Title: Concept for the Simulation-Based Description of Intelligent Mechatronic Components and their Networking in an I4.0 Production Line**
Xiaobo Liu-Henke, Ostfalia University of applied Sciences, Germany
- P-007** **Title: On Markovian Queues with Single Working Vacation and Bernoulli Interruptions**
Siping Su, Western Washington University, USA

End of the Conference

Bookmark Your Dates

3rd International Conference and Exhibition on

Industrial and Manufacturing Engineering

August 13-14, 2020 | Atlanta, USA