

International Joint Conference on Industrial Engineering and Operations Management 2018 Program

WEDNESDAY – JULY 18th LISBON (CAMPUS)

15:00 - 17:00 Registration Military Academy (start 15h00)

Touristic Visit Palacio da Bemposta

17:00 - 18:00 Cocktail Welcome drink

Major General VIEIRA BORGES

PORTUGAL – COMMANDER OF THE PORTUGUESE ACADEMY

THURSDAY – JULY 19th AMADORA (CAMPUS)

Room Marquês Sá da Bandeira Auditorium

9:10 | 9:40 Opening Ceremony

PLENARY SESSION | KEYNOTE SPEAKERS

Room Marquês Sá da Bandeira Auditorium

09:45 | 10:30 Keynote Speaker: CIHAN DAGLI

USA – MISSOURI S&T

10:30 | 11:00 *Coffee-Break*

SPECIAL SESSION BMSS I: BUSINESS MODELS AND SERVICE SCIENCE

Room 105

Chair: Sergio Barbosa Elias

- 11:00 | 11:30 Business Model Development and Maturity in Software-based Start-ups: Insights from a Case Study
- 11:30 | 12:00 The Industrial Business Management in the Model of the Economy of Communion: Case Study in Brazil
- 12:00 | 12:30 Brazilian Natural Gas Sector: Possible Solutions to Serious Problems

Room 112

Chair: Francisco Mendonça Freires

- Governance, Accountability and Process Management Principles Used to Improve Food Supply: The Case of a Brazilian High Education Institution
- Supplier Development applied to Strategic Sourcing: a Case in Cosmetic Industry
- Framework Proposal for Management of Knowledge and Technology Transfer in Brazilian Academic Internships

SPECIAL SESSION E I: EDUCATION

Room 111

Chair: José Wilson Franca Lelis

- 11:00 | 11:30 Occupational stress and job satisfaction among Brazilian managers: the case of commercial area
- 11:30 | 12:00 Identifying Consequences of Cultural Influences in International Research Projects by Brazilian Professors in The United States
- 12:00 | 12:30 An application of the Model Topological of Teaching for Engineering

Room 127

Chair: Alcina Zita Sampaio

- The Importance of Education in Enhancing the Innovation Capacity in Serbia
- Introducing BIM in a Civil Engineering school
- Building Information Modelling enhanced with Virtual Reality technology

SPECIAL SESSION LPIS I: LOGISTICS, PRODUCTION AND INFORMATION SYSTEMS

	Room 123 Chair: Izaskun Alvarez-Meaza	Room 122 Chair: Antonio Cezar Bornia
11:00 11:30	Mapping scientific and technological patterns: a case study of Hybrid Vehicles	The Swot Analysis in the Development of the Strategy for the use of Unmanned Aerial Vehicles in the Polish Armed Forces Logistics
11:30 12:00	Probabilistic Assessment of Road Risks for Improving Logistics Processes	The defense performance measurement framework: A tactical and operational level case study

SPECIAL SESSION QPM I: QUALITY AND PRODUCT MANAGEMENT

	Room 120 Chair: Francesco Faccini	Room 119 Chair: Sanderson César Barbalho	Room 220 Chair: Rafael Garcia Barbastefano
11:00 11:30	Experimental Study on Product Development Labels	Using System Dynamics for Simulating Mechatronic New Product Development	Implementation of a Software Asset Management Tool for the Optimization of an Oil Pump Assembly Line
11:30 12:00	Comparative cost evaluation of Material Removal Process and Additive Manufacturing in aerospace industry	Productivity increase in a cellular battery line thru the use of Kaizen and Chrono-analysis tools	Evaluating the Impact of 5S Implementation on Occupational Safety in an Automotive Industry Unit
12:00 12:30		Design of Experiments Used in Computer Trials: A Supportive Method for Product Development	Improving the Availability of a Production Line through TPM in an Automotive Gearbox Industrial Unit

SPECIAL SESSION OM I: OPERATIONS MANAGEMENT

	Room 115 Chair: Flavio Trojan	Room 224 Chair: Rui Francisco Marçal	Room 217 Chair: John Blake	Room 218 Chair: Carlos Eduardo Silva
11:00 11:30	Load Areas-sorting Methodology to aid Maintenance on Power Distribution Networks	Lean Healthcare Project Leader: a framework based on functions and competencies	Maintenance Management with Focus on Hospital Equipment: A Case Study in a Medium-sized Hospital	Towards operational efficiency within manufacturing service ecosystem: an adaptive simulation-based optimization information module
11:30 12:00	Scheduling Operations and SMED: A Complementary Way to Improve Productivity	The Artificial Heart Stimulation Surgical Process Performance Evaluation by the Integration between Value Stream Mapping and Discrete Event Simulation	Modelling the need for new blood donors following a change in deferral period	An Integrated Approach to Thermal Hotel Selection
12:00 12:30	A Methodology for After Sales Analysis Based in Process Mining	Application of Job Satisfaction Survey in Telemarketing Operators in Brazil	Reduction of steel waste in a forgery line thru the application of the DMAIC method	A Lean Based Re-Engineered Manufacturing Chain Design

12:30 | 13:45 LUNCH

PLENARY SESSION | KEYNOTE SPEAKERS

Room Marquês Sá da Bandeira Auditorium

14:00 | 14:45 Keynote Speaker: PATRÍCIA MATOS

PORTUGAL – INDEPENDENT TELEVISION BROADCAST (TVI)

SPECIAL SESSION BM&SS II: BUSINESS MODELS AND SERVICE SCIENCE

Room 105

Chair: Burcu Felekoglu

Room 112

Chair: Seren Tasan

15:00 15:30	Pharmaceutical and Biopharmaceutical Patents: the opportunity of pharmerging countries	Forecasting the Innovation Potential under Uncertainty
15:30 16:00	Mapping Ergonomic Risks: An application in an Electronics Manufacturer	Market Strategies of Handcrafted Microbrewery in the City of São Luis
16:00 16:30	Choosing the Most Effective Networking Strategy and Practice for Open Innovation	

SPECIAL SESSION E II: EDUCATION

Room 111

Chair: Gabriela Lobo Veiga

Room 127

Chair: José Wilson Franca Lelis

15:00 15:30	Absorptive Capacity of Positive Externalities in the Added Value of Rio de Janeiro State	The Effect of Rooftop Gardens on the Internal Temperature of a Building
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15:30 16:00	Performance Measurement System to Continuously Improve a Brazilian Industrial Engineering Program: A Process to ABET Accreditation	Bibliometric analysis on Lean Construction
16:00 16:30	A model for the impact of customer knowledge on new product development –system dynamic approach	Analysis of equipment shutdowns in industrial systems: an integrated approach to process mining

SPECIAL SESSION LP&IS II: [LOGISTICS, PRODUCTION AND INFORMATION SYSTEMS](#)

	Room 123 Chair: Mesut Kumru	Room 122 Chair: Francisco Mendonça Freires
15:00 15:30	A robust multi objective optimization of a drug distribution system: A case study	The future risk of Internet companies: is there a medium-term convergence?
15:30 16:00	A coordinated logistics planning for provision of Platelets in disaster relief operations	The impact of ERP Systems on the Organizational Maturity of Brazilian Construction Companies
16:00 16:30	The Computational Simulation for Improvement in Productive Processes: A Study of Queue Theory with Simulators	The efficiency of small farmers in Brazil for food security: an analysis by the DEA method

SPECIAL SESSION Q&PM II: [QUALITY AND PRODUCT MANAGEMENT](#)

Room 120 Chair: Milton Vieira Junior	Room 119 Chair: Ecehan Oz Mehmet	Room 115 Chair: Marlene Amorim
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15:00 15:30	Use of Laser Toolster as a Quality Support Tool for the Dimensional Control of Machined Parts	Descriptive Evaluation in the Public Transport Service - A Study about of the Satisfaction of Customers	Insertion of risk management in quality management systems with the advent of ISO 9001.2015. Descriptive and content analyzes
15:30 16:00	Online Quality: Analysis of Retail Websites based on Non-Functional Usability Requirements	Risk Analysis of a Scientific Conference Organization: a Brazilian Case	The Importance of Analysis Cycles in Defining Criteria for Selecting Digital Era Projects
16:00 16:30	Environmental, Economic and Social Impact of Industrial Symbiosis: Methods and Indicator Review	Risk Assessment in Fluid Penetrant Inspection (FPI) of Critical Parts via Bayesian Belief Networks and Analytic Hierarchy Process	Quality Control in the Context of Industry 4.0
16:30 17:30	Scrutinizing the Viscosity Measures of Two Formulations of Face Cream Light: An Application of Statistical Quality Control in a Cosmetic Company	Continuous Improvement in an Industrial Unit of the Wood Industry through Kanban	A Practical Study of the Application of Value Stream Mapping to a Pre-Series Production Area

SPECIAL SESSION OM II: OPERATIONS MANAGEMENT

Room Small auditorium
Chair: Sergio Barbosa Elias

Room 217
Chair: Frederick Sexe

Room 218
Chair: Yesim Sireli

Room 220
Chair: Nuno Melão

15:00 15:30	A conceptual model to investigate the relationship among antecedents and consequents of service quality	The team process capability model: A sociotechnical theoretical framework for understanding how teams interact with their environment	Identify and Analyze the Knowledge of Project Manager of Civil Construction Companies	An Analysis of Research Trends in Industrial Engineering with a Focus on Operations Management
15:30 16:00	Ranking to prioritize maintenance of electric engines by TOPSIS method	The use of Technical Norms as Management Basis of Electrical Installations	Ergonomic Risk Assessment Application at an Automotive Company	QR Code based Signage to Support Automated Driving Systems on Rural Area Roads
16:00 16:30	The influence of economic context on the relationship between manufacturing strategy, practices and performance	Improvement of Efficiency by Redesigning The Plant Layout	An Excel Based Ergonomic Risk Assessment Program to Teach Students Various Techniques	Aligning e-service attributes for hedonic and utilitarian consumption. An exploratory study in the context of consumer electronics
16:30 17:30	Impacts of marketing decisions on delivery performance and flexibility of the operations area: an analysis in a low technology intensity company	Defining R&D Projects in Engineering: A Systematic Literature Review	Risks of Contractual Fines for Failures in the Industrial Production Process: The Importance of the Qualification of Labor in Maintenance	

20:00 | SOCIAL DINNER | CAFÉ IN LISBON

FRIDAY – JULY 20th AMADORA (CAMPUS)

PLENARY SESSION | KEYNOTE SPEAKERS

Room Marquês Sá da Bandeira Auditorium

09:45 | 10:30 Keynote Speaker: BOJAN LALIC
SERBIA – UNIVERSITY OF NOVI SAD

10:30 | 11:00 *Coffee-Break*

SPECIAL SESSION OM III: OPERATIONS MANAGEMENT

	Room 105 Chair: Yesim Sireli	Room 112 Chair: Ecehan Ozmehmet	Room 111 Chair: Hélio Yochihiro Fuchigami	Room 127 Chair: Nuno Melão
11:00 11:30	Occupational Health and Safety and Change management by Scaled Agile Approach	Governance in Public Management. A Comparative Analysis of the Efficiency of the Electric Energy Consumption and Adequacy of Contract in Brazilian HEI	A literature review of mathematical programming applications in the fresh agri-food supply chain	Internet of Things (IoT): technological indicators from patent analysis
11:30 12:00	Analysis of PMO Impact on Indicators of Time and Scope in a Financial Organization	Reverse logistics costs: case study in a packaging industry	Causes of food loss and waste: an analysis along the food supply chain	Flexibility practices in disaster response – a process approach based evaluation

12:00 12:30	New Product Development in the Context of Industry 4.0: Insights from the Automotive Components Industry Analysis of efficiency through environmental and organizational variables: Data Envelopment Analysis and Contingency Theory	Evaluation of High-Rise Building Sustainability Performance	A Wind Power Supply Chain Risk Modelling on the Brazilian Context	Life Cycle Assessment comparison of two refractory brick product systems used for ladle lining in secondary steelmaking
12:30 13:00		The management of air navigation in Europe. Areas for potential operational improvement		

SPECIAL SESSION LP&IM III: LOGISTICS, PRODUCTION AND INFORMATION SYSTEMS

	Room 123 Chair: Yuval Cohen	Room 122 Chair: Mesut Kumru	Room 120 Chair: Alcína Zita Sampaio
11:00 11:30	The impact of task time randomness on optimizing a multi-release planning, and assembly line balancing	Lean Manufacturing Application to Improve Productivity of Inventory Management: the Case of a Furniture Company	Simulation as Decision Making Tool in Industry 4.0: A Case Study of Productivity Increase in Agribusiness Area
11:30 12:00	Total Productive Maintenance (TPM) with emphasis on Autonomous Maintenance: a case study in an Effluent Treatment Plant of a Steel Company	Supply Chain Governance: a study in wineries from Brazil and Spain	Reflections Strengths and Limitations of the Supply Chain Management for Renewable Energy Systems of Brazil

12:00 | 12:30 Use of Overall Equipment Effectiveness from the Hierarchical Process Analysis in an Edible Ice Cream Industry

Sizing of Kanbans in Production Systems Considering the Individual Analysis of Flow Variability

Increasing Popular Participation in Public Management Through Sentiment Analysis Technique in the Participatory Budget

SPECIAL SESSION Q&PM III: QUALITY AND PRODUCT MANAGEMENT

Room 119

Chair: Giovanni Mummolo

11:00 | 11:30 Increase in productive efficiency of a pneumatic industry equipment by applying the SMED Methodology: case study in a calendaring machines of carcass

11:30 | 12:00 Human Factor Influence On Eddy Current Non-Destructive Testings

12:00 | 12:30

Room 115

Chair: Claudia de Sousa e Silva

Quality Box, a way to achieve the employee involvement

Agile Regulations Management Method: An Approach Based on Excellence Models

Influence of incentive and benefit programs on the performance companies

Room 224

Chair: Serdar Tasan

Risk and ISO 9001: a Systematic Literature Review

Servqual Model to Evaluate the Quality of the Services in Restaurants

The use of quality tools for departmental analysis: An evaluation of the customer relationship center

13:00 | 14:00 LUNCH

SPECIAL SESSION OM IV: OPERATIONS MANAGEMENT

Room 105

Room 112

Room 127

	Chair: Geert Letens	Chair: Brian Galli	Chair: Marlene Amorim
14:00 14:30	Sustainability at the Faculty of Exact Sciences and Technology of the PUC-SP: study of green roof application	Hybrid Approach for Delivery Operations: Special Case of Biobjective TRP Considering Environmental Constraints	Mediating role of external green supply chain management on the relationship of environment management maturity and circular economy performance
14:30 15:00	Vehicle routing problem: a case study in Curitiba city, Brazil	Exploring Complexity in Sustainable Biomass Supply Chain Management	A Bibliographic Review on Social Technologies

SPECIAL SESSION OM V: OPERATIONS MANAGEMENT

	Room 122 Chair: Rui Lima	Room 120 Chair: Giovanni Mummolo	Room 119 Chair: Yasser Dessouky	Room 115 Chair: Sugoutam Ghosh
14:00 14:30	Application of Systems Evaluation Methods to Support the Scope of Digital Transformation Projects	The application of numerical simulation technology and competitiveness of foundry industries of Brazil metals: an exploratory study	Simulating Performance for One-Dedicated-Lane Light Rail System – A Case Study	Industry 4.0 and the Impact of Operations: A Review
14:30 15:00	Digitalization Degree in the Manufacturing Industry in Brazil	Improvements suggestions in the productive process of Dendê oil extraction: a study application of times and movements in the sterilization step	Support for Small and Medium Enterprises from Evidence-based Management: Proposition of Computational Tool based on Artificial Intelligence	Class aggregation for a multi-class inventory system

CONFERENCE CLOSING NOTE

Room Marquês Sá da Bandeira Auditorium (Amadora Campus)

15:15 | 16:00 Major General VIEIRA BORGES

PORTUGAL – COMMANDER OF THE PORTUGUESE ACADEMY

DELIVERY OF THE BEST PAPER AWARDS