



**6<sup>th</sup> International Conference on  
Business Sustainability – BS'16**

**Management, Technology and Learning for Individuals, Organisations  
and Society in Turbulent Environments**

**&  
5<sup>th</sup> International Conference on**

**Virtual and Networked Organizations – ViNOrg'16**

**Emergent Technologies and Tools**

# Joint Conferences Programme

Wednesday, November 16<sup>th</sup>

8:30	Registration	
10:00	Opening session	
10:30	Keynote 1: <i>ICT as the Key Enabling Technology for Industry 4.0 Unknown Challenges</i> Prof. Luís Ferreira, Polytechnic Institute of Cávado and Ave – IPCA, High School of Technology, Portugal	
11:30	Coffee break	
12:00	<p>Parallel sessions</p> <p><b>Room 1</b></p> <p><i>Intermediary organizations as a source of cross-fertilization in the IT sector: A Case Study in Canada</i> Diane-Gabrielle Tremblay</p> <p><i>Can additive manufacturing be smart manufacturing? Technological and societal challenges</i> Cláudia Fernandes, Luís Rocha, Nuno Araújo</p> <p><i>Pharmaceutic dosing optimization in warfarin treatment</i> Susana Martins, Lino Costa, Pedro Oliveira</p>	<p><b>Room 2</b></p> <p><i>The sustainability approach in the context of tourism businesses</i> Goretti Silva, Rafael Machado, Marco Rebelo</p> <p><i>Discussion on lean approach implementation in a collaborative man-robot workstation</i> Dorota Stadnicka, Dario Antonelli</p> <p><i>Bin management implementation- a case study in Continental Mabor</i> Ricardo Caridade, Teresa Pereira</p>
13:00	Lunch	
14:30	<p>Parallel sessions</p> <p><b>Room 1</b></p> <p><i>Smart Data Hub: Usage of process-inherent knowledge through modern data aggregation equipment</i> Dennis Bakir, Tobias Feickert, Robin Bakir,</p> <p><i>Material handling systems selection: a case study</i> Carina Pimentel, Inês Araújo</p> <p><i>Transversal competencies and youth employability</i> Carina Pimentel, Helena Silva, Marta Dias, Marlene Amorim</p> <p><i>Bill of Technological Processes Usage for Work Orders and Work-in-Progress Management</i> Zorica Veljkovic, Slobodan, Radojevic, Vesna Brkic, Biljana Katalinic, Ivan Rakonjac</p>	<p><b>Room 2</b></p> <p><i>The presence of education for sustainability in the mission of Higher Education Institutions with engineering courses</i> Fátima Monteiro</p> <p><i>Virtual and Augmented Reality on Learning Scenarios</i> António Castro, João Azevedo, João Donga, Mário Pinto, Tiago Dionísio</p> <p><i>Open innovation for SMEs: Web Cloud services</i> Luís Rocha, Cláudia Fernandes, Andrés Gomez, Nuno Araújo, Carmen Otero</p> <p><i>Human-robot collaboration in manufacturing: challenges and open problems</i> Dario Antonelli, Giulia Bruno, Sergey Astanin</p>
16:00	Coffee break	
16:30	Parallel sessions	

**Room 1**

*Fixed Horizon Scheduling as an Elementary Building Block for the Fixed Horizon with Reconfiguration, Rolling Horizon and Real Time Management Production Scheduling Paradigms*

Goran D. Punik, Cátia Alves, Paulo Ávila

*A View on the Future of Industrial Engineering*

Goran D. Punik

*Evaluating environmental and economical sustainability through recycled cooking oil use in combustion motors: application of a system dynamic model in a regional case study*

Glauco Rodrigues, Eugênio Simonetto, Hélio Castro, Goran Putnik, Cátia Alves

*Use of sociology concepts as the basis of a model for dynamic creation of virtual enterprises with pre-defined formal structure*

Vitor Santos

*Virtual reality and virtual quality*

Slavko Arsovski, Zora Arsovski, Miladin Stefanović

**Room 2**

*A Lean Set-Based Design Approach for Development of Customizable Products in Collaborative Networks*

João Bastos, Américo Azevedo, Paulo Ávila,

*Development of an application to optimize the breaker stock management*

Elisa Maio, Leonilde Varela, Ana Madureira, Goran Putnik

*Evaluation model for the web companies in the consumers perspective*

José Faria Pereira, Leonilde Varela, Ana Madureira, Goran Putnik

*Agile practices and sustainability - Proposition of assessment guide*

Barbara Lyonnet

*Integration of concepts about lean construction, sustainability and life cycle of buildings: a literature review*

Alberto Freitag, Osvaldo Quelhas, Rosley Anholon

*Analysis of local stakeholder management process in megaprojects: case Porto Maravilha, Rio de Janeiro*

Rayne Freitas, Osvaldo Quelhas, Rosley Anholon

20:00 Welcome reception cocktail

## Thursday, November 17th

9:30

Parallel sessions

**Room 1**

*Business Issues and Sustainable Development in Fashion : Contrasts between SMEs and large firms in socioeconomic sustainability in the fashion-garment sector in Canada*

Diane-Gabrielle Tremblay, Amina Yagoubi

*Reverse logistics and urban logistics Challenges and opportunities for collaboration*

Sergio Rubio, Beatriz Jiménez

*Auditors viewpoint on the analysis of organizational context within ISO 9001:2015*

Luís Fonseca, Pedro Domingues

*SIRnat - Attendance registry through facial recognition*

Vitor Mota, António Castro, João Pereira

*Virtualization as environmentally friendly technology*

Pedro Brandão

*A new role of leadership for business sustainability in turbulent environments*

Slavko Arsovski, Danijela Tadić, Zora Arsovski, Milan Mišić

**Room 2**

*Scarf bonded joints between different adherends*

David Alves, Raúl Campilho, R. Moreira, Francisco Silva

*Strength estimation of adhesively-bonded joints with cohesive laws estimated by the direct method*

Ulisses Carvalho, Raúl Campilho, Francisco Silva

*Comparative evaluation of the ENF and 4ENF tests to estimate the shear toughness of adhesive joints*

Bruno Oliveira, Raúl Campilho, Francisco Silva

*Strength prediction of hybrid single-L adhesive joints*

Nuno Domingues, Raúl Campilho, Francisco Silva

*Comparison of different modelling conditions in the strength prediction of bonded joints by cohesive models*

Ricardo Rocha, Raúl Campilho, Francisco Silva

*Minimization of energy consumption costs in the production of flake ice in food retail stores*

António Ramos, José Leal

*Impurities, evidence of deviation of process in production lines for spray painting*

Tiago Ascenção, Teresa Pereira

11:30

Coffee break

12:00

Round table 1:

*Human-robot collaboration in the framework of industry 4.0 and beyond – challenges and open problems*

Moderator: Prof. Dario Antonelli

13:00

Lunch

14:30

Touristic Tour

Informal meetings – collaboration and joint projects

20:00

Conference dinner

## Friday, November 18<sup>th</sup>

9:30	Keynote 2: <i>Perspectives on University Industry Interactions</i> Prof. Fernando Romero, University of Minho, Portugal
10:30	Round table 2: <i>Implementing circular economy: employing recycling and remanufacturing</i> Moderator: Prof. Eugénio Simonetto
11:30	Coffee break
12:00	<p>Parallel sessions</p> <p><b>Room 1</b></p> <p><i>Value Analysis: a way to increase the value creation</i> António Pires, Paulo Ávila</p> <p><i>A Support Decision System for Steel Coils Cut – a case study</i> Pedro Ferreira, Manuel Lopes</p> <p><i>From Technology Readiness Level to Innovation Readiness Level: a new approach to assess the objectives of engineering research</i> Antonio Maffei</p> <p><i>Lean Office tools in an Undergraduate and Graduate Office of a University Department</i> Júlio Magalhães, Anabela Alves, Néelson Costa, Ana Rodrigues</p> <p><b>Room 2</b></p> <p><i>Value analysis study regarding barrier mechanism for railway applications</i> Gonçalo Marques; Francisco Silva, Raul Campilho</p> <p><i>Problem anticipation and cost reduction in sheet metal forming processes of dual-phase advanced high strength steels</i> Tiago Gomes, Francisco Silva, Raul Campilho</p> <p><i>Lean manufacturing applied to the steel belt cutting in tire manufacturing</i> Lília Pinto, Francisco Silva, Raul Campilho, Luís Ferreira</p> <p><i>Process monitoring - A review of evolution</i> Garret E. O'Donnell</p>
13:00	Lunch
14:30	<p>Parallel sessions</p> <p><b>Room 1</b></p> <p><i>Development of Business Process Simulation Models: A Component-based Approach</i> José Pereira</p> <p><i>Innoentre Platform – applied entrepreneurship</i> Ana Faria, Andreas Meizsner, Elmar Husmann, Ioannis Stamelos, Klaus Thestrup, Sarah Robinson, Pantellis Papadopoulos, Rafael Pedrosa, Roland Burger</p> <p><i>Production Systems as Large Complex Networks and Challenges for Contemporary Economy</i> Goran D. Punik</p> <p><i>Abstraction levels framework for research on Human-Robot Collaboration</i> Goran D. Punik, Petar Petrovic</p> <p><i>Industry 4.0 Consistent Environment for Collaborative Robotic Arc-Welding of Highly Customized Products</i> Petar Petrovic, Ivan Danilov, Nikola Lukic, M. Milivojevic</p> <p><i>Application of the lean manufacturing in Brazilian industries – Brazil more productive program</i> Laura Sousa, Geraldo Sadoyama</p> <p><b>Room 2</b></p> <p><i>Solving quality problems in tire production preparation process: a practical approach</i> Bruno Barbosa Francisco Silva, Teresa Pereira, Raul Campilho</p> <p><i>Improving a machining process using hydraulic clamping tools</i> Cláudio Costa, Francisco Silva, Raul Campilho</p> <p><i>Improving the quality and productivity of metallic wire rope assembly lines for automotive industry</i> Conceição Rosa, Francisco Silva, Luís Ferreira, Raul Campilho</p> <p><i>Improving the preparation stage of tires production: a practical approach</i> Rui Santos, Francisco Silva, Raul Campilho</p> <p><i>Optimizing a specific tool for electrical terminals crimping process</i> Tiago Castro, Francisco Silva, Raul Campilho</p> <p><i>How to reduce non-conformities in the tire manufacturing extrusion process</i> Tiago Costa, Francisco Silva, Raul Campilho, Luís Ferreira</p>
16:00	2100 Projects Association - A vision: Learning, Freedom, Responsibility
16:30	Closing session
17:00	Coffee break