



**8th International Conference on
Business Sustainability – BS'18**
Management, Technology and Learning for Individuals, Organisations
and Society in Turbulent Environments

**&
7th International Conference on
Virtual and Networked Organizations – ViNOrg'18**
Emergent Technologies and Tools

Joint Conferences Programme

Wednesday, November 7th

8:30	Registration
10:00	Opening session
10:30	Keynote 1: <i>Energy Efficient Machining Optimisation based on Cyber Physical System and Big Data Analytics</i> Professor Weidong Li, Institute of Advanced Manufacturing and Engineering, Coventry University
11:30	Coffee break
12:00	Parallel sessions Room 1 <i>A strategy for human-robot collaboration in taking products apart for remanufacture</i> Jun Huang, Duc Truong Pham, Yongjing Wang, Mo Qu., Chunqian Ji, Shizhong Su, Wenjun Xu, Quan Liu, Zude Zhou <i>Regional asymmetries and the dynamics of growth and economic development in Algarve</i> Filipe Lage, Guilherme Castela, Nelson Silva, António Duarte Santos <i>Production fault prognosis system using ISTM recurrent neural network (RNN)</i> Yuchen Liang, Sheng Wang, Xin Lu, Weidong Li, Richard Bateman Room 2 <i>Organizations as complex ecosystems</i> Pedro Pinheiro, Goran Putnik <i>Technological Evolution in Machining Processes with CNC Machines in the Context of the Concept of Industry 4.0</i> Acendino Neto, Fernando Romero <i>Analysis and implementation of a lean model in warehouse management</i> José Gonçalves, João Bastos, Paulo Ávila <i>An industry 4.0 production network simulator</i> Adriano Pereira, Eugênio Simonetto, Goran Putnik
13:00	Lunch
14:30	Keynote 2: <i>From Isolated Toward Open Manufacturing Systems – Will The 4th Industrial Revolution Break The Walls?</i> Professor Peter Butala, Department of Control and Manufacturing Systems, University of Ljubljana, Slovenia
15:30	Parallel sessions Room 1 <i>A local search heuristic for integrated process planning and scheduling</i> Mário Leite, Telmo Pinto, Cláudio Alves <i>Approach to Project Management</i> João Paulo Pinto, Christiane Tscharf Room 2 <i>I4.0, learning from the past</i> Luis Ferreira, Goran Putnik, Nuno Lopes <i>Performance improvement analysis of production scheduling simulation through parallelism</i> Nuno Lopes, Bruno Costa, Luis Ferreira, Cátia Alves, Goran Putnik <i>Reduction of scrap percentage of cast parts by optimizing the process parameters</i> R. Chandrasekaran, R.D.S.G. Campilho, F.J.G. Silva

16:15	Coffee break	
16:30	<p>Parallel sessions</p> <p>Room 1</p> <p><i>A framework to study relations between lean, i4.0 and sustainability</i> A. Araújo, M.L.R. Varela, P. Ávila, H. Castro</p> <p><i>A framework for dynamic scheduling based on satisfaction levels</i> L. Ferreirinha, S. Baptista, A. Pereira, A. S. Santos, J. Bastos, A. M. Madureira, M.L.R. Varela</p> <p><i>A human centered hybrid mas and meta-heuristics based system for simultaneously supporting scheduling and plant layout adjustment</i> F. Alves, M.L.R. Varela, A. M. Rocha, A. I. Pereira, P. Leitão</p> <p><i>Global resources market management in scope of Industry 4.0</i> M. Pereira, L. Kapisch, M.L.R. Varela, Maria Manuela Cruz-Cunha, Goran Putnik</p> <p><i>Manufacturing management for i4.0: impacts and changes</i> L. Kapisch, M. Pereira, M.L.R. Varela, Goran Putnik</p>	<p>Room 2</p> <p><i>Experimental and numerical study of stepped adhesive joints with two adhesives</i> C.L. Ferreira, R.D.F. Moreira, R.D.S.G. Campilho, R.J.B. Rocha</p> <p><i>Numerical and experimental study of the adhesion of smc and prepreg</i> V.H.P. Lopes, R.D.S.G. Campilho, P.J.N.O. Nóvoa</p> <p><i>Strength prediction of adhesively-bonded joints by advanced discretization techniques (NNRPIM)</i> L.D.C. Ramalho, B.F.P. Resende, R.D.S.G. Campilho, J.A.O.P. Belinha</p> <p><i>Use of the extended finite element method for the strength prediction of hybrid t-joints</i> R.J.B. Rocha, R.V.F. Faria, R.D.S.G. Campilho</p> <p><i>Numerical study of tubular adhesive joints by the extended finite element method</i> S.M.L. Eusébio, R.D.S.G. Campilho</p> <p><i>Parametric study of curved adhesive joints in composite materials</i> J.M.C. Correia, R.D.S.G. Campilho, R.J.B. Rocha</p>

20:00	Welcome reception cocktail	
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Thursday, November 8th

9:30	<p>Parallel sessions</p> <p>Room 1</p> <p><i>A contribution of the three-way multi-block methods for decision making in health-care services , a costatis approach for the improvement of a clinical laboratory management</i> Susana Vale, Guilherme Castela, Nelson Silva, António Duarte Santos</p> <p><i>The emergency department of a public hospital in the Algarve, Portugal, a contribution of distatis to classify and prioritize the principal problems and challenges of its sustainability</i> Alda Pereira, Guilherme Castela, Nelson Silva</p> <p><i>Human factor in industry of the future - knowledge acquisition and motivation</i> Dorota Stadnicka, Pawel Litwina, Dario Antonelli</p> <p><i>Dispute, arbitration and tourism - a competitiveness approach</i> João Vidal, João Silva, Guilherme Castela</p> <p><i>The lean philosophy in Higher Education Institutions (HEIs) - A systematic literature review</i> Paulina Chicaia, Susana Azevedo, Fernando Charrua-Santos</p> <p><i>A project lifecycle case study of a decision-support system for the manufacturer's pallet loading problem</i> António G. Ramos, Elsa Silva, Pedro Lopes, Pedro Ribeiro</p> <p><i>Development of an Autonomous Service Robot with Human and Environment Interaction</i> Autores: Gonçalves, F., Caetano Monteiro, A., Lopes, A.</p> <p><i>Industry 4.0, Are you ready?</i> Giovanni Ingrosso</p>	<p>Room 2</p> <p><i>Implementation and testing of planning and scheduling algorithms for AGV fleets</i> Márcia Martins Costa, Manuel Silva, Pedro Gomes</p> <p><i>The processual and technological impact in a setup time reduction - a case study</i> Ana Pinheiro, Paulo Ávila, João Bastos, Alzira Mota, António Pires</p> <p><i>Technological surveillance, knowledge transfer and SME's competitiveness through technology intelligence</i> Cláudia Fernandes, Joana Leal, Pedro Castro, Vânia Pacheco</p> <p><i>State of the art of maintenance of fire safety equipment in buildings in Portugal - mapping the territory</i> Luís Fonseca, Rui Gouveia</p> <p><i>Open source products and sustainable urban forms: an approach towards neo-industrialisation 2.0</i> Hélio Castro, Goran Putnik, Luís Ferreira, Paulo Ávila, Manuela Cunha, Cátia Alves</p> <p><i>Lean practices implementation study in the Portuguese industry</i> Diogo Martins, Luís Fonseca, Paulo Ávila, João Bastos</p> <p><i>Rural development: creation of a interconnection model in traditional activities with successive value creation - the "forcão" model</i> Leonel Nunes, João Matias</p>
11:30	Coffee break	
12:00	<p>Round table 1:</p> <p><i>2 emergent production systems concepts for Neo-Industrialization 2.0: Are they possible?</i></p> <p>Introduction: Prof. Goran Putnik, University of Minho, Portugal</p> <p>Moderator: Prof. Helio Castro, School of Engineering, Polytechnic of Porto, Portugal</p>	

13:00	Lunch	
14:30	Touristic Tour	Informal meetings – collaboration and joint projects

20:00	Conference dinner	
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Friday, November 9th

9:30	Keynote 3: <i>On the contribution of 5G Communications in Industry 4.0</i> Prof. Mário Marques da Silva, Universidade Autónoma de Lisboa & Instituto de Telecomunicações, Portugal	
10:30	Round table 2: <i>Will Industry 4.0 contribute for the social sustainability?</i> Introduction: Professor Paulo Ávila, School of Engineering, Polytechnic of Porto, Portugal Moderator: Professor Leonilde Varela, University of Minho, Portugal	
11:30	Coffee break	
12:00	Parallel sessions Room 1 <i>Trust of Portuguese customers in banks during economic crisis period</i> António Cabeças <i>Development of a new machine monitoring system - b-Remote</i> João Costa, Paulo Ávila, João Bastos, Goran Putnik, Manuela Cunha <i>Energy sustainability in rural ecotourism with ISO55000 implementation</i> Miguel Beirão, João Bastos, Paulo Ávila <i>Costs and customer service level - a survey about logistic knowledge in Portuguese companies</i> Alexandra Martins, Teresa Pereira, Fernanda Ferreira	Room 2 <i>CyberSecurity in the Industry 4.0</i> Pedro Ramos Brandão <i>Optimization of tire uniformity critical parameters-a case study</i> Rui Leão, Manuel Pereira Lopes, José Carlos Sá <i>Localization system to map the storage of products in a retail company's manual warehouse</i> João Sousa, Teresa Pereira, Luis Pinto Ferreira <i>Cumulative delay as a driver for production rescheduling</i> Goran Putnik, Cátia Alves
13:00	Lunch	
14:30	Parallel sessions Room 1 <i>Multi-product distribution in the fashion and retail industry</i> Rita Sousa, Dalila B. M. M. Fontes <i>Co-creation of learning materials procedures/protocols in social network based education</i> Goran Putnik, Cátia Alves, Hélio Castro <i>How Industry 4.0 can enhance Lean practices</i> José Dinis-Carvalho, Ana Pereira <i>Comet 4.0: European Approach for training in Coordinate Metrology 4.0</i> Luís Rocha, Michael Marxer, Nabil Anwer, Enrico Savio <i>Development of a hexapod robot for chores in hazardous environments to humans</i> Coelho, J. S. F., Caetano Monteiro, A., Lopes, A. G. T., Carvalho, O. S. N. <i>Improvement of samples assembly in a shoes factory-Case study</i> João Oliveira, Paulo Ávila, João Bastos, António Pires, Alzira Mota	Room 2 <i>Assembly Planning and Task Assignment in a Human-Robot Collaborative Workcell</i> Dario Antonelli, Giulia Bruno, Khurshid Aliev <i>Internet of things in Europe - development and research area topics evolution</i> Jorge Oliveira e Sá, José Luís Pereira, João Cacho <i>Using Six Sigma to analyze customer satisfaction at the product design and development stage</i> Inês Bento, Teresa Pereira, José Carlos Sá <i>Information Systems Implementation for Sustainable Industrial Processes</i> André Silva, Teresa Pereira <i>Using Simulation to Model Logistic Operations of a Cement Industry Company</i> Hugo Veloso, António AC Vieira, Luís Dias, Guilherme Pereira, José Oliveira, M Sameiro Carvalho, Manuel Figueiredo
16:00	2100 Projects Association - A vision: Learning, Freedom, Responsibility	
16:30	Closing session	
16:45	Coffee break	