



**2100 Projects Association Joint Conferences**

**"9th International Conference on Business Sustainability - BS'20  
and  
8th International Conference on Virtual and Networked  
Organizations Emergent Technologies and Tools - ViNOrg'20"**

# **CONFERENCE PROGRAMME**



# Conference General Programme

	December, 02nd Wednesday	December, 03rd Thursday	December, 04th Friday
09:30	<b>Registration for Conference</b>		
11:00	<b>Opening Session</b>	<b>Papers Presentation</b>	<b>Papers Presentation</b>
11:30	<b>Keynote Lectures #1 e #2</b>	<b>Keynote Lecture #3</b>	<b>Coffee break</b>
13:00	<b>Lunch break</b>	<b>Coffee break</b>	<b>Papers Presentation</b>
14:30	<b>Papers Presentation</b>	<b>Round Table #1</b>	<b>ERASMUS+ Project ICARUS Special Session</b>
16:00	<b>Coffee break</b>	<b>Lunch break</b>	<b>Closing Session</b>
16:30	<b>Papers Presentation</b>	<b>Lunch break</b>	<b>Lunch break</b>
18:00		<b>Papers Presentation</b>	
20:00	<b>Welcome Reception conditioned by COVID-19</b>	<b>Informal Meetings</b>	
		<b>ERASMUS+ Project TIPHYS</b>	
		<b>Coffee break</b>	
		<b>ERASMUS+ Project TIPHYS</b>	



Social Programme conditioned by COVID-19  
Informal Meetings

# Conference Detailed Programme

Wednesday, December 2<sup>nd</sup>

9:30	<b><u>Room 3</u></b> <b>REGISTRATION FOR CONFERENCE</b>	
11:00	<b><u>Room 1</u></b> <b>OPENING SESSION</b>	
11:30	<b>Keynote Lectures Presentation</b>  <b><u>Room 1</u></b>  <b>Keynote 1</b> <b>DESIGN AS SUSTAINABILITY ENABLER FOR I4.0</b>  <b>Christopher A. Brown</b> , Professor Mechanical Engineering Department, Worcester. Polytechnic Institute of Mechanical Engineering, Worcester  <b>Keynote 2</b> <b>THE INNOVATIVE UNIVERSITY</b>  <b>Fernando Romero</b> , Assistant Professor Algoritmi Centre University of Minho, Portugal	
13:00	Lunch break	
14:30	<b>Papers Presentation</b>  <b><u>Room 1</u></b>  <b>Open Source Hardware in Additive Manufacturing</b> Rui Silva, Helio Castro, Paulo Ávila, João Bastos  <b>The effect of Open Design projects in Patents: an perspective for Additive Manufacturing</b> Rui Silva, Helio Castro, Paulo Ávila, João Bastos  <b>Impact of the networking on entrepreneurial activity</b> E. Leite, M.T. Pereira, P. Baylina, R. Pedrosa  <b>The impacts of the application clusters for Sustainable Business Models on the Sustainable Development Goals</b> Eleonora Boffa, Antonio Maffei	<b><u>Room 2</u></b>  <b>A model to support the management of cooperative projects</b> Marco Nunes, António Abreu  <b>Project Management in the Digital Revolution</b> António Cabeças, Mário Marques da Silva  <b>Improvement of the warehouse reception process by planning and controlling raw material deliveries: A case study</b> Catarina Chaves, Carina Pimentel  <b>Lean Warehousing: A Comparative Methodology Approach</b> Carolina Rebelo, Maria Teresa Pereira, Luis Pinto Ferreira, José Carlos Sá
16:00	Coffee break	
16:30	<b>Papers Presentation</b>  <b><u>Room 1</u></b>  <b>A model of communication time structure for evaluating agility in enterprises</b> Flavio Zimmermann, Goran Putnik, Catia Alves  <b>A Model for introduction of Game Theory applications in Decision Making for implementation of Industry 4.0</b> Flavia Martins, Cátia Alves, Goran Putnik  <b>Identification and characterization of Meta-Organizations related to the Industry</b> Ricardo Nogueira, Helio Castro, Paulo Ávila, António Santos  <b>Development of a proposal for an Agile Manufacturing model oriented to Small Medium Enterprises (SME's)</b> Bruno Pereira, Helio Castro, Paulo Ávila, João Bastos	<b><u>Room 2</u></b> <b>Special Session Education 1</b>  <b>The Systematic Review &amp; Challenges of M-Learning and mHealth Education in SARS-Cov2 Pandemic</b> Nuno Mateus-Coelho, Manuela Cruz-Cunha  <b>Universities of future: soft skills development through the short course Vanguard Leadership Program for I4.0</b> Manuel Salvador Araújo, Teresa Pereira, Marcela Acosta, Paulo Ávila & João Bastos  <b>Universities of future: students' expectations, structure and pedagogical dynamics of an international Joint post-graduation course</b> Teresa Pereira, Marcela Acosta, Piotr Palka, Manuel Salvador Araújo, Paulo Ávila, João Bastos

	<p><b>Conflict Analysis: A graph model in the management of urban freight transport demand</b> Paulo A.D.Ormond Jr, José Telhada, Goran Putnik</p> <p><b>i4.0 Educational System for SME in management for economic reactivation - The case of CENTRUM PUCP's social responsibility project "Mejorando Mi Bodega", for smalls and slightly digitalized enterprises during COVID-19 pandemic in Peru</b> Julianna Ramírez, Kelly Rojas, Exequiel Albeiro</p>
18:00	
20:00	<p><b>WELCOME RECEPTION</b></p> <p>Conditioned by COVID-19</p>

## Thursday, December 3<sup>rd</sup>

10:00	<p><b>Papers Presentation</b></p> <div> <div> <p><u><b>Room 1</b></u></p> <p><b>Collaborative Decision Making approaches: a review and reflections</b> A. C. Sousa, A. F. Bertachini, C. Cunha, R. Chaves, M. L. R. Varela</p> <p><b>Virtual Enterprise through the lenses of i4.0</b> Luis Ferreira, Acendino Alves, Fernando Romero, Goran Putnik</p> <p><b>Design for Safety and Security in Cyber-Physical Production Systems</b> Luca Caruana, Emmanuel Francalanza</p> <p><b>Framework for cybersecurity risk management in the industry</b> Pedro Ramos Brandão</p> </div> <div> <p><u><b>Room 2</b></u></p> <p><b>Continuous Improvement System: Managers and workers' perceptions</b> Jose Dinis-Carvalho, Monica Monteiro, Helena Macedo</p> <p><b>Impact of collaborative robotics implementation in an assembly process - Case study in a furniture manufacturer</b> Ana Colim, Rita Morgado, Dinis Carvalho, Nuno Sousa</p> <p><b>Optimization of human robot collaborative assembly through Reinforcement Learning</b> Qingfei Zeng, Dario Antonelli, Khurshid Aliev</p> <p><b>"Adaptation of Gamification as a Man-Machine Interface to Franchise Management System"</b> Burak GUNAYDIN, Furkan KALABALIKOGLU, Yusuf ALTUNEL</p> </div> </div>	
11:00	<p><b>Keynote Lectures Presentation</b></p> <p><u><b>Room 1</b></u></p> <p><b>Keynote 3</b></p> <p><b>THE UNSEEN POWER OF GRAPH THEORY TO UNDERSTAND COOPERATIVE NETWORKS</b></p> <p><b>António Abreu</b>, Associate Professor Industrial Engineering in the Polytechnic Institute of Lisbon (ISEL), Portugal</p>	
11:30	Coffee break	
12:00	<p><b>Round Table</b></p> <p><u><b>Room 1</b></u></p> <p><b>Round Table 1</b></p> <p><b>PRODUCTION SYSTEMS AFTER THE COVID-19 AND THE EFFECTS ON SUSTAINABILITY</b></p> <p><b>Paulo Ávila, António Santos</b> Polytechnic of Porto, Autonomia University of Lisbon</p>	
13:00	Lunch break	
14:30	<p><b>Papers Presentation</b></p> <p><u><b>Room 1</b></u></p> <p><b>PRODUTECH SIF Project: its mobilized effect and main results and its contribution to accelerating digital transformation in the industry</b> Vânia Pacheco, Nuno Araújo, Luis Rocha</p>	<p><b>Special Session: ERASMUS+ Project TIPHYS</b></p> <p><u><b>Room 2</b></u></p> <div> <p><b>Multiplier Event of ERASMUS+ TIPHYS Project</b> Coordinators: Goran Putnik, Cátia Alves</p> <p><b>Presentation of the ERASMUS+ TIPHYS Project: "Social Network based doctoral Education on Industry 4.0"</b> <b>2017-2020, Project No: 2017-1-SE01-KA203-034524</b> Goran Putnik, Cátia Alves</p> </div>

	<p><b>Smart Additive Manufacturing: the path to digital chain</b> Vânia Pacheco, Nuno Araújo, Luis Rocha</p> <p><b>Additive Manufacturing in health sector: Bio printing and Bio Manufacturing</b> Nuno Araújo, António Brandão Moniz</p> <p><b>Learning organizations, satisfaction with leadership and cognitive flexibility: a comparative study at the Federal Institute of Mato Grosso do Sul</b> Cíntia Figueiredo, Manuel Salvador Araújo &amp; Teresa Pereira</p> <p><b>Concurrent Engineering applied to high end products: a case study in electric cables sector</b> José Gonçalves, Helio Castro, Paulo Ávila, João Bastos</p>	<p><b>Tiphys: An Open Networked Platform for Higher Education on Industry 4.0</b> Dario Antonelli, Doriana D'Addona, António Maffei, Vladimir Modrak, Goran Putnik, Dorota Stadnicka, Chrysostomos Stylios</p> <p><b>Ontological framework based on constructive alignment for the representation and composition of educational units</b> (Video Presentation, 18min) Antonio Maffei</p> <p><b>Presentation of Tiphys MOOC</b> Chrysostomos Stylios, Dario Antonelli, Paweł Litwin</p>
16:00	Coffee break	
16:30	<b>Informal Meetings</b>	<p><b>Special Session: ERASMUS+ Project TIPHYS</b></p> <p><b>Room 2</b></p> <p><b>Multiplier Event of ERASMUS+ TIPHYS Project</b> Coordinators: Goran Putnik, Cátia Alves</p> <p><b>Social Network based Education (SNE)</b> Goran Putnik, Cátia Alves</p> <p><b>Co-Creation of Learning Materials</b> Goran Putnik, Cátia Alves</p> <p><b>Discussion and Dialogue</b></p>
18:00		
20:00	<p><b>CONFERENCE DINNER</b></p> <p>Conditioned by COVID-19</p>	

## Friday, December 4<sup>th</sup>

10:00	<b>Papers Presentation</b>	<p><b>Room 1</b></p> <p><b>A model of Service Realization in Social Network based Production System</b> Goran Putnik, Catia Alves, Zenilda Venancio Manuel</p> <p><b>The metaphor of "iceberg" for understanding organizational complexity</b> Pedro Pinheiro, Goran Putnik</p> <p><b>On large production networks dynamics modelling as environment for production scheduling in CPPS</b> Catia Alves, Leonilde Varela, Goran Putnik</p>	<p><b>Room 2</b></p> <p><b>Virtual Reality in Industry 4.0: a shop floor real-time monitoring case study</b> Nuno Dinis, João Martinho, Luís Ferreira</p> <p><b>Development of a stock management methodology in a automobile company</b> Vanessa Rafaela F. de Sousa, Maria Teresa Pereira, Luis Pinto Ferreira, José Carlos Sá</p> <p><b>Analysis and levelling of material flows in the production of a company in the plastics factory</b> Joana Teixeira, Maria Teresa Pereira, Luis Pinto Ferreira, José Carlos Sá, José Francisco Silva</p>
11:00	Coffee break		
11:30	<b>Papers Presentation</b>	<p><b>Room 1</b></p> <p><b>I4.0 solutions and its benefits in real cases</b> João Costa, Filipe Alves, Paulo Ávila, João Bastos, Hélio Castro</p>	<p><b>Room 2</b></p> <p><b>Special Session Education 2 ERASMUS+ Project ICARUS</b></p> <p><b>Learning Styles for Engineering Within the Context of Education for Industry 4.0</b> Emmanuel Francalanza, Jonathan Borg, Erwin Rauch, Goran Putnik, Catalin Amza, Cátia Alves</p>

Notes:

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.