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09:00	Registration	
09:15	regionation	
09:30	Welcome	Keynote 3 - João Pedro Mendonça
09:45		Universidade do Minho
10:00	Keynote 1 - Vitor Martins Augusto	
10:15	NORCAM Engenharia e	
10:30	Design Industrial	Poster Pitch
10:45	Coffee-break	
11:00		
11:15	Presentation session 1 Innovations in manufacturing engineering	Coffee-break
11:30		
11:45		Presentation session 3 Machines, cyber-physical systems and automation
12:00	chairman: Hélder Puga, DEM - U. Minho	
12:15		chairman: Daniel Afonso, ESAN - U. Aveiro
12:30	Lunch-break	Lunch-break
12:45		
13:00		
13:15		
12.20		
13:30		
13:45		
13:45 14:00	Keynote 2 - Jorge Lino	Keynote 4 - Alda Tomás
13:45 14:00 14:15	Faculdade de Engenharia da	Keynote 4 - Alda Tomás Vista Alegre
13:45 14:00 14:15 14:30		
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13:45 14:00 14:15 14:30 14:45 15:00	Faculdade de Engenharia da Universidade do Porto	Vista Alegre
13:45 14:00 14:15 14:30 14:45 15:00 15:15	Faculdade de Engenharia da Universidade do Porto Coffee-break Presentation session 2	Vista Alegre Coffee-break Presentation session 4
13:45 14:00 14:15 14:30 14:45 15:00 15:15 15:30	Faculdade de Engenharia da Universidade do Porto Coffee-break	Vista Alegre Coffee-break
13:45 14:00 14:15 14:30 14:45 15:00 15:15 15:30 15:45	Faculdade de Engenharia da Universidade do Porto Coffee-break Presentation session 2 New materials and process optimization	Vista Alegre Coffee-break Presentation session 4
13:45 14:00 14:15 14:30 14:45 15:00 15:15 15:30 15:45 16:00	Faculdade de Engenharia da Universidade do Porto Coffee-break Presentation session 2	Vista Alegre Coffee-break Presentation session 4 Design and Innovation
13:45 14:00 14:15 14:30 14:45 15:00 15:15 15:30 15:45	Faculdade de Engenharia da Universidade do Porto Coffee-break Presentation session 2 New materials and process optimization	Vista Alegre Coffee-break Presentation session 4 Design and Innovation



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SUSTAINABLE AND ADVANCED MANUFACTURING University of Aveiro · School of Design, Management and Production Technologies Northern Aveiro - ESAN Oliveira de Azeméis, Portugal

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Keynote 1 - Vitor Martins Augusto NORCAM Engenharia e Design Industrial

O Futuro é hoje!

Keynote 3 - João Pedro Mendonça Universidade do Minho

PRODUTECH4S&C Digital Supply Chain Challenges

NextGen 3D, com Michael Machado

INEDIT evolution to a smart cuisine manufacturing

Keynote 2 - Jorge Lino Faculdade de Engenharia da Universidade do Porto

Design of a metal tool for cutting tire burrs

Keynote 4 - Alda Tomás Vista Alegre

Vista Alegre: Porcelana e Criação

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Presentation session 1 Innovations in manufacturing engineering

João Sousa, João P. Mendonça, João Sarraipa

11:15 ZDMP Introducing industry under Zero Defects Manufacturing concepts

Renato Souza and Ricardo Torcato

11:30 Mechanical characterization and study of cutting forces in the grinding process of crystal glass

Mehran Mouziraji, Daniel Afonso and Ricardo Sousa

- 11:45 Investigation of base layer geometry on the residual stress and mechanical properties of bulk LMD parts Isa Santos and Bruno Soares
- 12:00 The influence of material extrusion printing parameters in geometric tolerancing

Cristiano Alves, Fabio Fernandes and António Pereira

12:15 Laser transmission welding of thermoplastics used in the automotive industry

Presentation session 3 Machine design, cyber-physical systems and automation

Tânia Nunes, Filipe Pereira and Carlos Felgueiras Remote connectivity devices - Study, tests and comparative analysis of performance

Miguel Cruz and Hugo Faria

Development of a CNC Control System for Desktop Filament Winding Equipment Using Visual Basic

Helder Oliveira, Marco Duarte and Hugo Faria IDS Connectors as enablers of cyber physical systems in manufacturing industry

Presentation session 2 New materials and process optimization

Hélder Puga, José Grilo, Marco Amorim and Vitor Carneiro

15:15 Dispersion of SiCp in A356 alloy melts using a hybrid ultrasonic stirring technique with ceramic sonotrodes

Ricardo Alves de Sousa, Gabriel Serra, Fábio Fernandes 15:30 and Eduardo Noronha

Cork-STF composites: preliminary crashworthiness

Luiza Melo de Lima, Tito Trindade and Martinho Oliveira

15:45 Thermoplastic nanocomposites for applications in automotive industry

Jorge Luis, Aline Santos, Paulo Lima, Martinho Oliveira, Jorge Marinheiro and Pedro Lemos

16:00

Presentation session 4 Design and Innovation

Tiago Carvalho, Eduardo Noronha and Ricardo Sousa Integration of 3D printing technology in product development at PLM, Plural

Maria João Amador, Eduardo Noronha and Ricardo Sousa Constraints to the use of recycled ocean polymers in electronic devices

Henrique Takashi Idogava, Daniel Marcos Souza do Couto, Zilda de Castro Silveira and Fernando Jorge Lino Alves **Design of flexible components by additive manufacturing**

Antonio Gomes and Augusto Sousa Coelho Sustainable development: Reuse of obsolete forging dies

Indirect Selective Laser Sintering of spray dried porcelain in the development of new products powders

San 2nd meeting

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Poster pitch session

Daniel Ferreira, Georgina Miranda, Filipe Oliveira and Martinho Oliveira Time/cost-model for industrial large-scale production of 18Ni300 by Selective Laser Melting Sílvio Abrantes, Sara P. Magalhães da Silva and José Martinho Oliveira Development of Leather-Polymer Composites adapted for Additive Manufacturing Carla Ferreira, Liliana Pires, Paulo Lima and Martinho Oliveira Additive manufacturing of melt glass João Pereira, Sara Silva and José Oliveira Si3N4 based slurries for 3D stereolithography: a step into industrialization Diana Carvalho, Sara Silva and José Oliveira Cork-Polymer Composites based on Thermoplastic Starch for Additive Manufacturing Filipe Martins, Laura Santos, Paulo Lima, Ricardo Torcato and José Oliveira Influence of resin time degassing on the polyamide 6 properties Hélder Morais, Ricardo Torcato and Paulo Lima Design and manufacture of an instrumented injection mould for the flexible production of test specimens Joana Lagarinhos, Simão Santos, Georgina Miranda, Daniel Afonso, Ricardo Torcato, Carlos Santos and Martinho Oliveira The influence of surface finishing on laser heat treatments of a tool steel Catarina Lemos, Daniel Afonso and Ricardo Torcato LMD laboratorial equipment for strategy and parameter optimization Loleny Tavares, Paulo Lima and José Oliveira Characterization of bio-based and biodegradable materials for the production of automotive parts Luiza Melo de Lima, Tito Trindade and José M. Oliveira Poly(propylene)/graphene oxide nanocomposites: effect of compatibilizer and processing methodology on the thermal, mechanical, and morphological properties Margarida Gonçalves, Helena Monteiro and Muriel Iten Vehicle's Lightweight Materials - Environmental Performance Overview João Laranjeira, Cristina Matos, Ana Rita Alberto and Carla Figueiredo Martins Innovative approaches for risk management in nanotechnologies Safe by Design and Safe and Sustainable by Design approaches Helena Monteiro and Bruna Moura Life cycle energy and carbon analysis of Rosemary aromatic extracts Bruna Moura and Helena Monteiro

Embodied energy of colorant extraction processes from Roselle