

ProDPM'19 Preliminary Conference Programme - Version 1 - 2019/09/13

	Day 1 2nd October'2019	Day 2 3rd October'2019	Day 3 4th October'2019
8h15	Registration		
8h45	Opening Ceremony		
9h00	Session Chair: Keynote slot 1.1 Eujin Pei (Brunel Univesity) Standardization Efforts in Additive Manufacturing Keynote slot 1.2 Marc Dimter (Trumpf)	Session Chair: Keynote slot 2.1 Omar Fergani (Siemens Software) Keynote slot 2.2 Bruno Romero (HP 3D Printing)	Session Chair: Keynote slot 3.1 Terry Wohlers (Wohlers Associates) Keynote slot 3.2 Joana de Medina (Stratasys)
10h00			
11h00	Coffee-break	Coffee-break	Coffee-break
11h15	Paralell Sessions:	Paralell Sessions:	Paralell Sessions:
	Design @ Room 1	Digital Manuf & Simulation Syst 2 @ Room 1	Biomufacturing @ Room 1
	Session Chair:	Session Chair:	Session Chair:
	Programming 4D Printed Parts through Shape-Memory Polymers and Computer-Aided-Design Eujin Pei, Giselle Hsiang Loh, Seokwoo Nam and Ezrin Faten Azhar	S3D Dino Freitas et al.	Modeling and Simulation of a Novel Functional Brace for Large Bone Defects Mohammed Alqahtani and Paulo Bartolo
	Improve Engineering Skills in Digital Manufacturing for New Products António Ramos and Carlos Relvas	To simulate or not to simulate? Challenges in digitally prototyping HMI interactive technologies Sevcen Yardim-Sener and Owain Pedgley	Study of Geometry and Fused Filament Fabrication Parameters in PLA Scaffolds for Bone Tissue Replacement Ricardo Baptista and Mafalda Guedes
	Geometry-based process adaption to fabricate parts with varying wall thickness by direct metal deposition Daniel Eisenbarth, Fabian Soffel and Konrad Wegener	Assessing industry 4.0 readiness of Portuguese companies Hélder Castro, Alexandre Carvalho, Fátima Leal and Helena Gouveia	Composite scaffolds for large bone defects Evangelos Daskalakis and Paulo Bartolo
	Efficient Tailoring of Geometrical Based Laser Parameters for Design-Elements on Universal SLM Machines Julian Ferchow	A probable next step for Sustainable Product Design Maria Trompers	Optimization Techniques for Automatic Reconstruction of Dental Computed Tomography Images Rui Ruben, Paulo Amorim, Thiago Moraes, Jorge Silva and Helio Pedrini
	Advanced Manuf Tech 1 @ Room 2	Advanced Manuf Tech 2 @ Room 2	Construction @ Room 2
	Session Chair:	Session Chair:	Session Chair: Terry Wohlers
	Technological and economic comparison of additive manufacturing technologies for fabrication of polymer tools for injection molding Achim Kampker, Bruno Alves and Peter Ayvaz	AM was the answer, but what is the question? Steinar Killi and William Kempton	Novel robot based 3D-printing technology for the production of large parts Uwe Klaeger and Andriy Telesh
	AM tooling for the mouldmaking industry João Carreira, Joel Vasco and Henrique Almeida	Strategies for Obtaining Porous Media Through the Process Planning in Material Extrusion Additive Manufacturing Marcelo Okada Shigueoka, Elis Cassiana Nakonetchnei and Neri Volpato	Moving forward to 3D/4D printed building facades Flávio Craveiro
	Virtual Workstations Applied to the Mould Industry – A Case Study Fabiana Guarda, Luís Marrazes and Mário Afonso	Expectations of Additive Manufacturing for the Decade 2020-2030 Henrique Almeida and Joel Vasco	Integration of BIM and generative design for earthbag projects Deborah Santos and José Beirão
	Integrating nature inspiration into Design for Additive Manufacturing: design challenges and future directions Miguel Fernandez-Vicente, Sandeep K Samanthula and Andrew Triantaphyllou	Impact of additive technologies in the health sector for 2030 Emanuel Serrano, Liliana Vitorino and Henrique Almeida	Potential of Natural Ventilation and Vegetation for achieving low-energy tall buildings in tropical climate: An overview Humera Mughal and Jose Nuno Beirão
	Technical Session by HP 3D Printing @ Room 3	CAD & 3D Data Acq Tech @ Room 3	Technical Session by Trumpf @ Room 3
		Session Chair:	
		3D printing: an innovative technology for customised shoe manufacturing Tatjana Spahiu, Henrique Almeida, Rita Ascenso and Liliana Vitorino	
		3D printed geometries on textile fabric for garment production Tatjana Spahiu	
		S3D Dino Freitas et al.	
		Use of Photogrammetry Technique as Reverse Engineering Tool for Modeling in Additive Manufacturing-Case study Pavan Kumar Gurralla and Arvind Jograna	
13h00	Lunch break @ cantine 3	Lunch break @ cantine 3	Lunch break @ cantine 3
14h00	Session Chair: Keynote slot 1.3 Jaume Homs (HP 3D Printing)	Session Chair: Keynote slot 2.3 Paulo Bártolo (Manchester Univ.)	Session Chair: Keynote slot 3.3 Ulric Ljungblad (Freemelt AB)
15h00	Keynote slot 1.4 Alain Bérrard (EC Nantes)	Keynote slot 2.4 Inma Vazquez (Stratasys)	Keynote slot 3.4 Carlos Mougueira (Trumpf)
16h00	Coffee-break	Coffee-break	Keynote slot 3.5
16h15	Paralell Sessions:	Paralell Sessions:	Igor Drstvensek (Maribor Univ.)
	Materials 1 @ Room 1	Materials 2 @ Room 1	
	Session Chair: Omar Fergani	Session Chair:	
	On the effect of deposition patterns on the residual stress, roughness and microstructure of AISI 316L samples produced by Directed Energy Deposition Gabriele Piscopo, Alessandro Salmi, Eleonora Atzeni, Luca Iuliano, Mattia Busatto, Simona Tusacciu, Manuel Lai, Sara Biamino, Mostafa Toushekhah, Abdollah Saboori and Paolo Fino	Polymer matrix nanocomposites for 3D printing Mylene Cadete, Tiago Gomes, Alfredo Costa, Maria Fonseca, João Dias de-Oliveira and Victor Neto	
	Friction and wear study of laser metal deposition (LMD) components for automotive industry application F. Q. Ramalho, M. L. Alves, Mário S. Correia, L.M. Vilhena and A. Ramalho	A novel specimen geometry for fatigue crack growth in vacuum L.M.S. Santos, Carlos Capela, F.V. Antunes, J.A.M. Ferreira and J.D. Costa	
	Fatigue life prediction in selective laser melted samples under variable amplitude loading via two constant-amplitude tests L. Santos, R. Branco, J.D. Costa, C. Capela and J.A. Martins Ferreira	Morphology and thermal behaviour of new mycelium-based composites with different types of substrates Rafael M.E. Alves, M.L. Alves and Maria J. Campos	
	Mechanical and Surface characterization of metal components produced by SLM Henrique Almeida and Mário Corriea	Developing sustainable materials for marine environments: algae as natural fibers on polymer composites Carlos Capela and Marcelo Gaspar	
	Digital Manuf & Simulation Syst 1 @ Room 2	Applications @ Room 2	
	Session Chair: Eujin Pei	Session Chair:	
	Development of a supporting system of pass design in multi-pass welding based on GMAW weld pool simulation Yosuke Ogino, Toshihiro Fujiwara, Satoru Asai, Kosuke Tamura and Shin-Ichi Sakamoto	Photocurable alginate bionink development for 3D bioprinting Hussein Mishbak, Enes Aslan, Glen Cooper and Paulo Bartolo	
	Study on the On-line Support System for Welder Satoru Asai, Yosuke Ogino, Kazufumi Nomura and Kazunori Hattori	Fabrication of cellulose hydrogel objects through 3DPrinted sacrificial molds Hossein Najaf Zadeh, Tim Huber, Freya Dixon, Conan Fee and Don Clucas	
	Exploring the linkages between the Internet of Things and planning and control systems in industrial applications Ricardo Soares, Alexandra Marques, Reinaldo Gomes, Luís Guardão, Elder Hernández and Rui Rebelo	Bi-material electrospun meshes for wound healing applications Enes Aslan and Paulo Jorge Da Silva Bartolo	
	Implementing RAMI4.0 in Production – a multi-case study Elder Hernández, Pedro Senna, Daniela Silva, Rui Rebelo, Ana Barros and César Toscano	Room Temperature Extrusion 3D Printing of Polyether Ether Ketone Using a Stimuli-Responsive Binder Chang-Uk Lee, Johanna Vandenbrande, Adam Goetz, Mark Ganter, Duane Storti and Andrew Boydston	
	18h00	18h00	17h30
	Gala Reception - 18h30	Gala Dinner - 20h00	BBQ @ cantine 3 - 17h30