

	Room: SALA TORNEO Keynote Speaker: Dr. Jorge Posada
PLENARY KEYNOTE TALK 1 MONDAY 9:30-10:30	<i>Industry 4.0 and industrial internet influence in Sustainable Design and Manufacturing</i>

ORAL PRESENTATIONS MONDAY-1 (3 PARALLEL SESSIONS) 11:00-13:00	SESSION_1 (IS04) Room: SALA CARTUJA Session Chair: Mr David Ross-Pinnock	SESSION_2 (IS01) Room: SALA TORNEO Session Chair: Dr Nancy Bocken	SESSION_3 (G03) Room: SALA EXPO Session Chair: Dr Ying Liu
	sdm15-010	sdm15-026	sdm15-007
	A hybrid Measurement Systems Analysis and Uncertainty of Measurement Approach for Industrial Measurement in the Light Controlled Factory Dr Jody Muelaner, Mr Mark Chappell, Mr Andrew Francis, Prof Paul Maropoulos	Product design and business model strategies for a circular economy Dr Nancy Bocken, Dr Conny Bakker, Ms Ingrid de Pauw	Eco-Case Based Reasoning (Eco-CBR) for Supporting Sustainable Product Design Mrs Awanis Romli, Mr Miguel P. De La Pisa, Mr Paul Prickett, Professor Rossitza Setchi, Dr Shwe Soe
	sdm15-075	sdm15-033	sdm15-012
	Implementation of a machine tool performance measurement and diagnostic system and its impact on parts verification Mr Akbar Jamshidi, Mr Jon Cave, Mr Mark Chappell, Professor Paul Maropoulos	Incorporating Designing Thinking into Sustainable Business Modelling Mr Martin Lehmann, Dr Nancy Bocken, Prof Steve Evans, Mr Jón Steingrímsson	Sustainability criteria for transport of home care staff and frail people BSc. Jana Voegl, Ass.Prof. Dr. Patrick Hirsch
sdm15-080	sdm15-034	sdm15-065	
Design for Verification in the Context of the Light Controlled Factory Professor Paul Maropoulos, Mr Andrew Francis, Dr. Jody Muelaner	Achieving Sustainability in Small to Medium sized Manufacturing Enterprises through Educational Awareness Dr Michael Packianather, Mr Alan Davies, Mr Sajith Soman, Mr John White	Recommendations for Sustainability in Production from a Machine-Tool Manufacture Mr. Javier Diaz, Mr. Iñigo Barandiaran, Mr. Jorge Posada, Mr. Carlos Toro	
sdm15-071	sdm15-078	sdm15-041	
Effect of illumination wavelength on optimizing multicamera location systems in a factory environment Prof Stuart Robson, Dr Stephen Kyle, Dr Lindsay MacDonald, Prof Mark Shortis	Sustainable Business Model innovation: The Cases of Patagonia Inc. and Bureo Skateboards M.sc. Fiona Stappmanns	Remanufacturing in Pearl River Delta Area China: Challenges and Opportunities Prof. Yong-chao WANG, Lecture Ya-Feng ZHU	
	sdm15-072		
	The Choice of Production Volume of the ELV Depollution Station Using the Decision - Making Analysis MSc Aleksandar Tomovic, PhD Milan Nikolic, PhD Milan Pavlovic, MSc Aleksandar Pavlovic, PhD Danijela Tadic		

	Room: SALA TORNEO Keynote Speaker: Prof. Paul G. Maropoulos
PLENARY KEYNOTE TALK 2 MONDAY 14:00-15:00	<i>Design Verification in the Context of the Light Controlled Factory</i>

ORAL PRESENTATIONS MONDAY-2 (3 PARALLEL SESSIONS) 15:30-17:30	SESSION_1 (IS04) Room: SALA CARTUJA Session Chair: Mr David Ross-Pinnock	SESSION_2 (IS03) Room: SALA TORNEO Session Chair: Dr Peter Ball	SESSION_3 (G03) Room: SALA EXPO Session Chair: Dr Ying Liu
	sdm15-017	sdm15-021	sdm15-006
	The Issues and Challenges of 3D Managed Print Services: Towards a Support Tool for 3D Managed Print Services Dr James Gossill, Prof. Ben Hicks	A Methodology for Process and Energy Mapping in Production Operations Ms Maria-Jose Rivas Duarte, Mr John Cosgrove, Dr Frances Hardiman	A Strategy Process for Early Stage Ventures to Develop Sustainable Value Opportunities Dr Nancy Bocken, Dr Nicky Athanassopoulou, Dr Imoh Ilevbare, Dr Robert Phaal, Dr Padmakshi Rana
	sdm15-064	sdm15-022	sdm15-024
	Tracking Technologies to Support Virtual Prototyping of Manual Composite Lay-Up Prof Ashutosh Tiwari, Ms Edyta Dzikon, Mr Windo Hutabarat, Dr Christopher Turner	Energy Saving Opportunities in a Food Factory Dr Richard Greenough, Sr Pedro Sánchez Fuentes	Competences necessary to improve the ability of organisation to design sustainable futures Mr Lloyd Fernando, Prof Steve Evans
sdm15-073	sdm15-040	sdm15-027	
Remote Real-Time Collaboration Platform enabled by the Capture, Digitisation and Transfer of Human-Workpiece Interactions Mr Vinayak Prabhu, Mr Yohann Advikolanu, Mr Mark Burgess, Mr Rob McNally, Dr John Oyekan, Professor Ashutosh Tiwari	Design and Control of Manufacturing Systems for Enabling Energy-efficiency and -Flexibility Mr. Tim Stock, Mr. Denys Alva, Prof. Dr.-Ing. Dirk Bähre, Mr. Theo Bietz, Prof. Dr.-Ing. Günther Seliger, Mr. Martin Swat	Developing sustainable manufacturing strategies through practice maturity assessment Mr Lampros Litos, Professor Steve Evans	
sdm15-081	sdm15-042		
Computer aided Micro-EDM die-sinking tool design optimization Dr Samuel Bigot, Mr Romain Lepert, Dr Jean Phillipe Pernot, Mr Anthony Surleaux	The application of web based LEAN Manufacturing tools to support the implementation of ISO 50001 - A Case Study v1.0 Dr Ken Bruton, Mr. Peter O'Donovan, Dr Dominic O'Sullivan		

	Room: SALA TORNEO Keynote Speaker: Prof. Takashi Maeno
PLENARY KEYNOTE TALK 3 TUESDAY 9:30-10:30	<i>Sustainable Design of Products and Services for Human Well-being</i>

ORAL PRESENTATIONS TUESDAY-1 (3 PARALLEL SESSIONS) 11:00-13:00	SESSION_1 (IS02) Room: SALA CARTUJA Session Chair: Dr Martin Baumers	SESSION_2 (IS05) Room: SALA TORNEO Session Chair: Dr Susan Grant	SESSION_3 (G02) Room: SALA EXPO Session Chair: Mr Daniel Evers
	sdm15-016	sdm15-068	sdm15-004
	Investigation of Influencing Variables on Sustainability of 3D-Printing and Fused Deposition Modelling Prof. Dr.-Ing. Stefan Junk, B.Eng. Rebecca Matt	Manufacturing Lead-Time Reduction and Knowledge Sharing in the Manufacturing Sector Mr Twana Jaffi, Mr Atanas Ivanov	Product change management: The through-life impact of diverging designs within product fleets Mr Paul Prickett, Mr Ashley Morris, Professor Rossi Setchi
	sdm15-038	sdm15-054	sdm15-036
	An Investigation into the Recycling of Ti-6Al-4V Powder Used Within SLM to Improve Sustainability Mr Richard O'Leary, Professor Gareth Hankins, Mr Paul Prickett, Professor Rossi Setchi	Business applications for Virtual World Platforms for Training Dr Olinkha Gustafson-Pearce, Dr Susan Grant	Factory Eco-efficiency Modelling: Framework Development and Testing by Application Mr. Aanand Davé, Mr. Craig Astfalk, Dr. Peter Ball, Dr. Konstantinos Salonitis
sdm15-058	sdm15-055	sdm15-039	
Challenges and Opportunities in the Additive Layer Manufacturing of Al-Al2O3 Nanocomposites Mr Quanquan Han, Prof. Bhushan Karhaloo, Prof. Rossitza Setchi	Pre-requisites to transferring tacit knowledge using social media Dr Susan Grant, Dr Olinkha Gustafson Pearce	Exploring Connections between Lean and Sustainability? A Systematic Literature Review Dr Anne Touboullic, Dr Claire Biggs, Prof Zoe Radnor, Prof Helen Walker	
sdm15-074	sdm15-048	sdm15-052	
Theoretical Analysis of the Mechanical Response of Lattice Structures Manufactured using Selective Laser Melting Mr Qixiang Feng, Dr. Ying Liu, Prof. Rossi Setchi, Prof. Qian Tang	Measuring and linking social network knowledge exchange and organisational performance Dr Raúl Rodríguez Rodríguez, Dr Ramona Diana Leon, Dr Pedro Gómez-Gasquet, Dr Josefa Mula Bru	Energy Absorbing Characteristics of Additively Manufactured TPE Cellular Structures Dr Shwe Soe, Dr Graham McShane, Dr Michael Ryan, Dr Peter Theobald	
	sdm15-056	sdm15-052	
	Social Media and Social Networking Analysis for Knowledge Networking Dr. Josefa Mula, Dr. Pedro Gómez, Dr. Susan Grant, Dr. Raúl Rodríguez	Conceptual Model for the Use of ICT Systems to Facilitate Manufacturing SME Servitization Mr Dominic Bevan	

ORAL PRESENTATIONS TUESDAY-2 (3 PARALLEL SESSIONS) 14:00-15:30	SESSION_1 (IS06) Room: SALA CARTUJA Session Chair: Dr Anthony Soroka	SESSION_2 (G01) Room: SALA TORNEO Session Chair: Mr Andrew Hopkins	SESSION_3 (G02) Room: SALA EXPO Session Chair: Mr Daniel Evers
	sdm15-047	sdm15-061	sdm15-003
	Supply Chain Re-shoring and its Relationship with Supply Chain Resilience Dr Anthony Soroka	Non-parametric benchmarking of Life Cycle Impact Assessment results Professor Sebastián Lozano, Professor Gumersindo Feijoo, Professor Mª Teresa Moreira	Environmental Impact Reduction for Small and Medium-sized Manufacturing Enterprises in New Product Development Dr Wai Cheung, Dr Kevin Hilton, Dr Roger Penlington, Mr Thomas Woods
	sdm15-077	sdm15-002	sdm15-069
	The Speed Dependent Heterogeneous Fixed Fleet Vehicle Routing Problem with Backhauls and Environmental Considerations Mr. Jose Molina, Dr. Ignacio Eguia, Dr. Jesus Racero	Assessment of Sustainable Product Development Tools and Methods PhD Candidate Salari Meysam, Professor Bhuiyan Nadia	Secondary use of electric vehicle batteries and potential impacts on business models Miss Na Jiao, Prof Steve Evans
sdm15-051	sdm15-028	sdm15-053	
Opportunities for Sustainable Local Supply Chains: An exploratory study of Welsh Manufacturing Companies Mrs Jacqueline Marsh, Dr Michael Ryan, Dr Anthony Soroka	The Assembly and Disassembly Process Guided by Software Agents Dr. Leo van Moergestel, Prof. Dr. John-Jules Meyer, Prof. Erik Puik, MSc. Daniel Telgen	Continuous improvement of the effectiveness of equipment driven by the dynamics of cost reduction PhD Student Alin Aurelian Postecucă, PhD Student Miruna Zapciu	

ORAL PRESENTATIONS TUESDAY-3 (2 PARALLEL SESSIONS) 16:00-17:30	SESSION_1 (IS06) Room: SALA CARTUJA Session Chair: Dr Anthony Soroka	SESSION_2 (G01) Room: SALA TORNEO Session Chair: Mr Andrew Hopkins
	sdm15-070	sdm15-001
	Control Architectures for Industrial Additive Manufacturing Systems Mr Daniel Evers	A Quantitative Analysis System for Greener Wind Turbine Concept Selection Dr Wai Cheung, Mr Raymond Aso
	sdm15-046	sdm15-009
	Are we really doing the right thing? From sustainability imperialism in global supply chains to an inclusive emerging economy perspective Dr Anne Touboullic, Mr Fhimen Eiodame	Kinematic Analysis and Optimization of Bicycle Suspension Dr Jody Muelaner, Dr Joss Darling, Mr Tom Knight
	sdm15-015	
	Effect of Glass Surface Roughness on Separation Energy in Low Temperature Ultrasonic Soldering Prof. Dr. Ery Adesta, Dr. Irfan Hilmy, Mr. H Mohamad, Mr. M Mustafa	