

Day 1 Programme – Sackville Street Building

12:00 – 13:30	Registration & Refreshments (Entrance Hall – Floor B)			
13:30 – 14:00	Opening Ceremony (Great Hall – Floor C)			
14:00 – 14:40	Keynote 1 (Great Hall) Additive Manufacturing – The Enabling Space for Future Sustainable Innovation in the Framework of Industry 4.0 Gideon Levy			
14:40 – 15:20	Keynote 2 (Great Hall) Upstream-Downstream Robert Kirkbride			
15:20 – 15:35	Special Presentation (Great Hall) 3D Bioprinting: Technologies and Applications Adrián Rodríguez			
15:40 – 16:00	Coffee Break			
Parallel Sessions – Up to six presentations in each session. Each presentation 15 mins inclusive of Q&A				
16:10 – 17:50	Session A 3D Printing Venue: Room G41	Session B Value Chain and Business Models Venue: Room C9	Session C Materials Venue: Room G37	Session D Design Education Venue: Great Hall
1	S2M94 Engineering electro-active scaffolds for bone regeneration Weiguang Wang	S2M 130 The Architecture of DIGICOR: A Digital Platform for Supporting Industry 4.0 B2B Collaborations Zixu Liu	S2M 127 Study and Investigation of Crack propagation on Aluminum Plates using Modal Analysis Hussein Mishbak	S2M 104 A Multi-Platform Virtual Practice for Education in Chemical Engineering Weijun Li
2	S2M 116 Galvanometer Calibration using Image Processing for Additive Manufacturing Beth King	S2M 175 Closed-Loop In-Process Quality Improvement Architecture for Industry 4.0 Manufacturing Systems Darek Ceglarek & Pasquale Franciosa	S2M 145 Characterisation of the anisotropic mechanical properties of 3D-printed parts C.P. Kloppers	S2M 118 The platforms material and the teaching of product design Maria Alexandra Miranda Luis
3	S2M 119 Fully 3D Printed Horizontally Polarised Omnidirectional Antenna Tan Hong Wei	S2M 161 Assessing collaborative technology readiness for Industry 4.0 A. Ramzan	S2M 124 Control of process parameters for directed energy deposition of PH15-5 stainless steel parts Yu Ying Clarrisa Choong	S2M159 Design Drawing / Drawing Design Ana Moreira da Silva
4	S2M 120 A multi-material extrusion nozzle for functionally graded additive manufacturing Flávio Craveiro	S2M 160 Digitalisation in value chains in developing countries: Exploring the prospects for upgrading Christopher Foster	S2M 170 Manufacture and Characterization of Composite Material Reinforced with Nano Particles Henrique Amorim Almeida	S2M 112 Can Digital Fabrication education affect the South African Science, Technology and Innovation objectives through curriculum infiltration? Sarel Havenga
5	S2M 128 Investigation into post-processing Electron Beam Melting parts using Jet Electrochemical Machining Thomas Kendall	S2M 163 Fashion segment and Industry 4.0: Brazilian textile and clothing industry - perspectives into the new industrial paradigms Érica Pereira das Neves	S2M 179 The multi-materials additive manufacturing Shoufeng Yang	S2M 132 Fashion Design course, a collaborative online learning experience Graça Guedes
6	S2M 143 Analysis of SLM 17-4 PH stainless steel lattice structures with radially oriented cells Paola Ginestra	S2M 131 Importance of i4.0 maturity assessments in promoting its concepts Hélder F. Castro	S2M 86 Topology optimization of bone plates to reduce stress shielding Abdulsalam Al-Tamimi	S2M 122 Action Research: a strategical methodology for applied research Fernando Moreira da Silva
18:00 – 19:30	Welcome and Networking Drinks Reception (Entrance Hall – Floor B)			

WiFi Connection: The easiest option is to connect via EduRoam, accessible anywhere in the building. Alternatively speak to the admin staff.

Day 2 Programme – Manchester Central Convention Complex (Wednesday 10 April)

08:45 – 09:00	Opening Remarks (Cobden 3)			
09:00 – 09:40	Keynote (Cobden 3) Design Driven Innovation for Sustainable Development José Rui De Carvalho Mendes Marcelino			
09:40 – 10:00	Special Presentation (Cobden 3) Implementing the application of Industrial IoT in Taiwan with industry-academia cooperation Wen-Yuh Jywe, President, National Formosa University			
10:00 – 10:30	Coffee Break (Summit & Expo Delegate Catering Area)			
Parallel Sessions – Up to six presentations in each session. Each presentation 15 mins inclusive of Q&A				
10:30 – 12:10	Session A Design for the Future Venue: Cobden 3	Session B Smart Manufacturing Venue: Cobden 1	Session C Machine Learning Venue: Cobden 2	Session D Urban Spaces Venue: Cobden 4
1	S2M 88 Jumping robots: an insight into scalable platforms through an experimental approach utilising additive manufacturing Macario Rojas	S2M 138 Manufacturing of a hollow propeller blade with WAAM process - From the material characterisation to the achievement Gatien Pechet	S2M 83 Machine learning – based smart real estate appraisal Tengxiang Su	S2M 166 The building to let in Lisbon, a built resource for a sustainable city Vanda Pereira de Matos
2	S2M 100 Human motion prediction using learning method for human-robot collaboration in assembly tasks Gilad Gottlieb	S2M 140 Towards an integrated sensor system control for direct laser melting sintering Michele Lanzetta	S2M 137 Data Analytics applied to Sand Casting Foundry Industries Fátima Leal	S2M 136 Collaborative fabrication. 1 : 1 scale Prototyping and its space experiencing F. Coutinho Quaresma
3	S2M 84 Two-Phase Methodology for Smart Reconfigurable Assembly Systems Hussam Alattar	S2M 103 Industry 4.0: Pillars for Smart Manufacturing –A Review Andrew O’ Riordan	S2M 144 Machine learning, the internet of things and the seeds of un-behavioral operations: Conceptual bases for the industry of the future Mauro Fracarolli Nunes	S2M 85 From ashes to ashes - 3D printing lost artefacts after the fire of the National Museum in Brazil Jorge Lopes
4	S2M 87 A novel actuation system for the next generation of mobile robotic systems Damian Crosby	S2M 146 Multimodal Virtual Reality Based Maintenance Training System for Industry 4.0 Mustafa Abidi	S2M 142 Machine Learning Approach For Biological Pattern Based Shell Structures Alberto T. Estévez	S2M 106 Modularisation of integrated photovoltaic-fuel cell system for remote distributed power systems Chukwuma Ogbonnaya
5	S2M 123 Using active adjustment and compliance in robotic disassembly Yongjing Wang	S2M 167 Long Range RFID Indoor Positioning System with Passive Tags J. S. Pereira	S2M 141 The role of “JavaMach Cluster” to training for Industry 4.0 Dobrotvorskiy Sergey	S2M 153 Designing inclusive spaces Miguel de Aboim Borges
6	S2M 158 From conflicts to synergies between mitigation and adaptation strategies to climate change: Lisbon Sponge- City 2010-2030 Nuno Manuel Madeira Nunes Pereira	S2M 102 An Ontology for Sensors Knowledge management in Smart Manufacturing Systems Mohammed M. Mabkhot and Mustafa Abidi	S2M 89 The feasibility of collaborative robotics in a UK manufacturing plant Shloak Mehta	

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Day 2 - Continued

12:10 – 13:40	Lunch Break. Pick lunch up from Summit & Expo Delegate Catering Area. Gallery area is reserved for you to sit down and have your lunch if you wish.			
13:40 – 14:20	Keynote (Cobden 3) Nature: Bio-inspired Factory N.0 Ajay Malshe			
14:20 – 15:00	Keynote (Cobden 3) Industry 4.0 – Internet of Production Axel Demmer			
15:00 – 15:40	Keynote (Cobden 3) Biomimetic Design Andres Harris			
15:40 – 16:10	Coffee Break (Summit & Expo Delegate Catering Area)			
Parallel Sessions – Up to five presentations in each session. Each presentation 15 mins inclusive of Q&A				
16:10 – 17:30	Session A Cyber-physical Systems Venue: Cobden 4	Session B Sustainable Healthcare Venue: Cobden 2	Session C 3D Printing and Virtual Prototyping Venue: Cobden 3	Session D Industry 4.0 Opportunities in Indonesia's Manufacturing Sector Venue: Cobden 1
1	S2M 121 Towards a digital revolution in the UK apparel manufacturing: an Industry 4.0 perspective Ismail Taifa	S2M 101 Microcrystalline cellulose as filler in polycaprolactone matrices M.E. Alemán-Domínguez	S2M 109 Virtual Prototyping for Fashion 4.0 Abu Sadat Muhammad Sayem	S2M 149 Jumping to Industry 4.0 Through Process Design and Managing Information for Smart Manufacturing: Configurable Virtual Workstation Sri Raharno and Glen Cooper S2M 148 The British Council and their Role in Industrial Digitisation in Indonesia Muhaimin Syamsuddin S2M 98 Development of Production Monitoring Systems on Labor-Intensive Manufacturing Industries Rachmad Hartono Open Discussion and Q&A
2	S2M 110 Towards fault detection and self-healing of chemical processes over wireless sensor networks Bogdan Dorneanu	S2M 90 Chronic back pain and sciatica: evaluating injection-based treatment for disc herniation and degeneration A. Alcantara	S2M 111 Could the food market pull 3D printing appetites further? Steinar Killi	
3	S2M 113 A framework for intelligent monitoring and control of chemical processes with multi-agent systems Mohamed Heshmat	S2M 178 Self-assembly of a bioinspired photoactive centered nanocontainer for drug delivery Sanjiv Sonkaria (invited)	S2M 162 Configuration of Fashion Design in the contemporaneity: innovation through additive manufacturing Dailene Nogueira da Silva & Erica Pereira Neves	
4	S2M 155 The Transport of Domestic Animals and the Internet of Things: Guidelines for the Development of a Smart Carrier Caio do Valle Cavalcanti de Albuquerque	S2M 177 Bio-inspired artificial membranes for biomedical applications Varsha Khare	S2M 97 3D printing of perovskite solar cells Abdalla Omar	
5	S2M 96 Remote monitoring and controlling of an additive manufacturing machine Abdullah Alhijaili			
17:30 – 18:15	You're welcome to join Summit exhibitors for post-expo Networking Drinks in the Gallery area.			
19:00	Conference Gala Dinner			

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Day 3 Programme – Manchester Central Convention Complex (Thursday 11 April)

09:50 – 10:00	Opening Remarks (Cobden 3)		
10:00 – 10:40	Keynote (Cobden 3) Design for Additive Manufacturing Richard Bibb		
Parallel Sessions – Up to four presentations in each session. Each presentation 15 mins inclusive of Q&A			
10:50 – 12:00	Session A Circular economy Venue: Cobden 2	Session B Sustainable design and construction Venue: Cobden 3	Session C 3D printing Venue: Cobden 4
1	S2M147 A framework for Industry 4.0 Implementation: A Case Study at King Saud University Hisham Alkhalefah and Mustafa Abidi	S2M105 Industry 4.0: Shifting Mindset in Architecture, Engineering and Construction Joseph Falzon	S2M176 On the Effect of Process Parameters on the Tensile Behaviour of LPBF Ti-6Al-4V Components Ian Gibson
2	S2M174 A screw unfastening method for robotic disassembly Jun Huang	S2M157 Ligno Project: development of composite waste material from wood and MDF applied to the design Juliana Cardoso Braga	S2M93 ‘Bone Bricks’ – cell-friendly, low-cost and easily assembled orthopaedic treatment for blast injuries Fengyuan Liu
3	S2M129 Towards a Circular Economy - Recycling of Polymeric Waste from End-of- Life Vehicles, Electrical and Electronic Equipment Life Vehicles, Electrical and Electronic Equipment Pasika Chongcharoentaweek	S2M156 BREEAM and LEED in Architectural Rehabilitation Ana Paula Pinheiro and Fernando Moreira da Silva	S2M91 3D biocompatible and biodegradable nerve scaffold Zhanyan Xu
4		S2M92 A systematic literature survey of health and safety in smart industry: state-of-the-art and future trends Otto Bakker	S2M95 Physical and biological properties of electrospun PCL meshes as a function of concentration and voltage Enes Aslan
12:00 – 13:00	Lunch Break. Pick lunch up from Summit & Expo Delegate Catering Area. Central Rooms 5 & 6 are reserved for you to sit down and have your lunch if you wish.		
13:10 – 13:50	Keynote (Cobden 3) Empowering Smart Cities: Rethinking Urban Innovation James Evans		
13:50 – 14:30	Keynote (Cobden 3) 3D Printing for Sustainable Construction Tan Ming Jen		
Parallel Sessions – Up to three presentations in each session. Each presentation 15 mins inclusive of Q&A			
14:40 – 15:30	Session A Construction 4.0 Venue: Cobden 2	Session C Urban Spaces Venue: Cobden 4	
1	S2M133 Paper in Architecture: The role of additive manufacturing Tatiana Campos	S2M81 Forming on-demand manufacturing collaborations on the DIGICOR platform Grigory Pishchulov	
2	S2M82 Knowledge driven holistic decision making supporting multi-objective Innovative Design Ali Khudhair	S2M125 Control Systems Of Regional Energy Resources As A Digital Platform For Smart Cities Yury Koshlich	
3	S2M135 Portable eye tracking and macro-saccadic eye movements Nuno Alão	S2M 171 Prefabrication in construction: an exploratory study of advantages and challenges in India and Portugal Flavio Craveiro	
15:30 – 15:50	Coffee Break (Summit & Expo Delegate Catering Area)		
15:50 – 16:30	Keynote (Cobden 3) Metal additive manufacturing for production applications Ian Gibson		
16:30	Closing Remarks (Cobden 3). End of Conference		