

RESIM 2020

Conference Programme Day 1

04/06/2020

Thursday

		04/06/2020		Thursday	
Morning Session	Industry 4.0 (Session Chair: Artur Mateus)	09:00	KEYNOTE LECTURE - Organising Humans and Machines - Direct Digital Manufacturing Factories of the Future (G. Mitchell)	25 + 5 min	
		09:30	Prediction and optimization of flank tool wear: an intelligent sustainable approach (A. Elsadek)	15 + 5 min	
		09:50	Evaluation Metrics for Business Process Integration of Logistics Service in Sustainable Airline Catering Supply Chain (D. Rajaratnam)	15 + 5 min	
		10:10	Development of a roadside impact attenuator using sustainable materials (O. Gouveia)	15 + 5 min	
		10:30	Environmental sustainability of additive manufacturing: comparison between case studies (G. Cappucci)	15 + 5 min	
		11:00	Morning Break	30 min	
		11:30	The prospect of the 4th industrial revolution to africa (O. Fayomi)	15 + 5 min	
		11:50	Learning to Transit to Sustainable Manufacturing from Reinforcement (F. Sunmola)	15 + 5 min	
		12:10	Decision Support System for Production Improvement in an Industrial Company (L. Rodrigues)	15 + 5 min	
		12:30	Lean and Industry 4.0: proposed integration of digital technologies as strategies to reduce classic waste in industrial environment (L. Valamede)	15 + 5 min	
Lunch Break					
Afternoon Session	Metals and Ceramics (Session Chair: Florindo Gaspar)	14:30	KEYNOTE LECTURE - Processes for additive manufacturing of large parts - state of the art, locks and design constraints (O. Larre)	25 + 5 min	
		15:00	Interactive Manipulation of a 3D Clay Printing Process (A. Hoenerloh)	15 + 5 min	
		15:20	CeramicsLab @ CDRSP (S. Silva)	15 + 5 min	
		15:40	Formulating geopolymers: a review on the reintegration of inorganic waste streams (T. Archer de Carvalho)	15 + 5 min	
		16:10	Afternoon Break	30 min	
		16:40	Add.Additive @ CDRSP (A. Mateus)	15 + 5 min	
		17:00	Demonstrating a Material Making Process Through the Cultivation of Mycelium Growth (D. Ozkan)	15 + 5 min	
	Poster Session (Session Chair: Geoffrey Mitchell)	17:20	Rosin the ultimate green material (V. Mahendra)	3 min	
		17:25	Electrical conductivity behaviour of carbon nanotubes in 3D printed strand under uniaxial deformation (I. Khan)	3 min	
		17:30	Tire compounds based on thermoplastic matrix for injection moulding (H. Marques)	3 min	
		17:35	Pineapple Leaf Fibres – A Renewable Material Resource for Composites (B. Lamolinara)	3 min	
		17:40	Altered loading patterns and muscle coordination due to bone defects in sheep – Promoting replacement, reduction and refinement principles via a musculoskeletal approach (R. Mateus)	3 min	
		17:45	Reduced order finite element simulations for Industry 4.0 (O. Gouveia)	3 min	
		17:50	Conformal channel design through additive manufacturing techniques: A review (P. Freitas)	3 min	
		17:55	Polyethylene use for horticultural tunnels; controlling crop yields light through polymer design (F.J. Davis)	3 min	
		18:00	The first steps into MathMould: some Analytical and Numerical Methods for Water Assisted Injection in Multi-Tubular Moulds (E. Figueiredo)	3 min	
		18:05	Circular Seas (A.R. Fonseca)	3 min	
		18:10	Progress on curbing corrosion challenge in manufacturing industry (O. Fayomi)	3 min	
		18:15	Challenges and prospect of composite agro-waste as corrosion inhibitors: a critical study (O. Fayomi)	3 min	
		18:20	Poster Discussion on-line (Each Author should be available in the Poster Display Room throughout this session)	50 min	

RESIM 2020

Conference Programme Day 2

05/06/2020

Friday

05/06/2020 Friday			
Morning Session	Technology (Session Chair: Paula Pascoal-Faria)	09:00	KEYNOTE LECTURE - Print Big (A. Mateus) 25 + 5 min
		09:30	The performance of epoxy resin-based composites molding elements in hybrid molds (P. Martinho) 15 + 5 min
		09:50	Eco-friendly flagging tape (R. Cordeiro) 15 + 5 min
		10:10	Fused Deposition of WC+Co powder (A. Raimundo) 15 + 5 min
		10:30	Highly promising biodegradable wastes and their application in modern day interest (O. Fayomi) 15 + 5 min
		11:00	Morning Break 30 min
		11:30	Kinematic connectors for functionally graded materials produced by direct digital manufacturing (M. Silva) 15 + 5 min
		11:50	Next Parts Project (A. Mateus) 15 + 5 min
		12:10	Optimising Injection Moulding for Plastic Parts, Using Tailored Cooling (J. Pinheiro) 15 + 5 min
		12:30	Influence of different geometries on mechanical performance of scaffolds for Bone Tissue Engineering (C. Fernandes) 15 + 5 min
Lunch Break			
Afternoon Session	Health (Session Chair: Geoffrey Mitchell)	14:30	KEYNOTE LECTURE - Stimuli Optimisation in Tissue Engineering (P. Pascoal-Faria) 25 + 5 min
		15:00	A review on additive manufacturing of tailored biodegradable stents (A. Raimundo) 15 + 5 min
		15:20	BioSitus: a novel user-friendly additive biomanufacturing equipment for clinicians (M. Belbut) 15 + 5 min
		15:40	Development of a Biocompatible Hydrogel based on Native TMJ Disc Extracellular Matrix (D. Trindade) 15 + 5 min
		16:10	Afternoon Break 20 min
		16:30	Numerical Modelling of Multi-Coupling Electrodes and Bioreactor Combined System for Electric Stimulation in Tissue Engineering (J. Meneses) 15 + 5 min
		16:50	Implant size and position estimation based on a 3D image reconstruction from a convolutional neural network of a 2D radiograph (D. Almeida) 15 + 5 min
		17:10	Biomechanical model of the sheep with bone defects: Reduction of animal's test through smart in silico model (D. Almeida) 15 + 5 min
		17:30	From Scan to Skin: a mathematical framework for in-situ bioprinting (O. Gouveia) 15 + 5 min
17:50	In-situ Biomass (N. Alves) 15 + 5 min		