Scientific Program

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2nd International Conference on

Advanced Robotics, Mechatronics and Artificial Intelligence

&

3rd International Conference on

Design & Production Engineering

December 03-04, 2018 | Valencia, Spain

UK: Conference Series LLC Ltd
47 Churchfield Road, London, W3 6AY
Toll Free: +0-800-014-8923

DAY-1

December 03, 2018

Meeting Hall: BOLSHOI

08:30-09:00 Registrations

Opening Ceremony 09:00-09:15

KEYNOTE FORUM

09:15-09:20 **Introduction**

09:20-09:55 **Title: Rapid alloy prototyping for steels**
Stephen G R Brown, Swansea University, UK

09:55-10:30 **Title: Architectural design with climate using snow and wind simulations to prevent from snowstorm in winter cities**
Tsuyoshi Setoguchi, Hokkaido University, Japan

10:30-11:05 **Title: Screw Theory for Robotics - A modern mechatronics mathematical foundation**
Jose M Pardor Gortor, The University Carlos III of Madrid, Spain

Networking & Refreshments 11:05-11:20 @ Foyer

11:20-11:55 **Title: Pumps working as turbines as an engineering solution for energy recovering in water distribution systems**
Petra Amparo López Jiménez, Universitat Politècnica de València, Spain

11:55-12:30 **Title: Microstructure analysis of maraging steel X3NiCoMoTi 18-9-5 produced by additive manufacturing**
Ludmila Kucerova, University of West Bohemia, Czech Republic

Sessions: Design Engineering | Industrial Design | Manufacturing Process | Materials Science | Mechatronics Robots Applications of Automation | Human Robot Interaction | Control Systems

Chair: Jože Duhovnik, University of Ljubljana, Slovenia
Chair: Jose M Pardor Gortor, The University Carlos III of Madrid, Spain

INTRODUCTION

12:30-12:50 **Title: S2T (Skin-to-Thing) solutions for design & engineering R & D: what wearable device developers must consider for their IoMT device?**
Edith Bianchi, Business Development & International Sales Manager, Israel

GROUP PHOTO 12:50–13:00

Lunch Break 13:00-14:00 @ Metropolitan Restaurant

14:00-14:20 **Title: Position and orientation calibration of a 2D laser line sensor using closed-form least-squares solution**
Ali Kanso, Zentrum für Mechatronik und Automatisierungstechnik gemeinnützige, Germany

14:20-14:40 **Title: Shifting product design from technology driven to user centre design**
Fang Bin Guo, Liverpool John Moores University, UK

14:40-15:00 **Title: Precision material deposition via a mobile rover for disaster scenarios**
Alec Burns, University of Liverpool, UK

15:00-15:20 **Title: Food security and nutrition trends in West Africa challenges and the way forward**
Harison Wara Che, City Chemist Roundabout, Cameroon

15:20-15:40 **Title: Fractional order cruise control strategies for an electric vehicle**
Samir Ladaci, National Polytechnic School of Constantine, Algeria

Networking & Refreshments 15:40-16:00 @ Foyer

Panel Discussion

DAY-2

December 04, 2018

Meeting Hall: **BOLSHOI**

KEYNOTE FORUM

09:45-09:55 **Introduction**

09:55-10:30 **Title: Golden loop inside the design methodology for total production engineering**
Jože Duhovnik, University of Ljubljana, Slovenia

10:30-11:05 **Title: Towards design and manufacturing of biomedical implants with biological fixation: Development of an integrated numerical model**
Michal Krzyzanowski, Birmingham City University, UK

Networking & Refreshments 11:05-11:20 @ Foyer

11:20-11:55 **Title: Fluidic oscillators for active flow control applications**
Josep M Bergada, ESEIAAT-UPC, Spain

11:55-12:30 **Title: Design of multi-major-component (high entropy) alloys of suitable magnetic and mechanical properties based on a Hume-Rothery approach**
Monique Calvo Dahlborg, University Rouen Normandy - CNRS, France

12:30-13:05 **Title: The crucible method: A new technique of generating process maps for laser powder-bed fusion**
Adam M. Philo, Swansea University, UK

Lunch Break 13:05-14:05 @ Metropolitan Restaurant

Sessions: Design Engineering | Industrial Design | Manufacturing Process | Materials Science | Mechatronics Robots Applications of Automation | Human Robot Interaction | Control Systems

Chair: **Michal Krzyzanowski,** Birmingham City University, UK
Chair: **Jose M Pardor Gortor,** The University Carlos III of Madrid, Spain

14:05-14:25	**Title: Design of an intelligent workplace system for human-machine-interaction in the digitized industry** **Johanna Ender,** Liverpool John Moores University, UK
14:25-14:45	**Title: Implementation of a human-machine-interaction control system in a human-robot-collaborative riveting process in aircraft assembly** **Tobias Masiak,** Zentrum für Mechatronik und Automatisierungstechnik gemeinnützige, Germany
14:45-15:05	**Title: Study on porosity defects of EBMed Ti64 components by tomographic analysis** **Carmine Pirozzi,** CIRA, Italy
15:05-15:25	**Title: Design optimization of spot welds for optimal strength of structure** **Zaheer Abbas,** National University of Science and Technology, Pakistan
15:25-15:45	**Title: Spherical magnetic drive for attitude control on nano satellites** **Grazvydas Kazokaitis,** Kaunas University of Technology, Lithuania

Networking & Refreshments 15:45:16:00 @ Foyer

Panel Discussion

Awards & Closing Ceremony

Bookmark your Dates

3rd International Conference on
Advanced Robotics, Mechatronics and Artificial Intelligence
July 11-12, 2019 | Berlin, Germany
E: advancedrobotics@shareresearch.info Website: robotics-mechatronics-ai.insightconferences.com/ europe

4th International Conference on **Design & Production Engineering**
July 11-12, 2019 | Berlin, Germany
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