JOINT EVENT

2nd International Conference on
DESIGN AND PRODUCTION ENGINEERING

&

International Conference on
MECHATRONICS, AUTOMATION AND SMART MATERIALS

November 13-14, 2017  Paris, France
Day 1  November 13, 2017

08:30-09:00  Registrations

Amphitheater

09:00-09:15  Opening Ceremony

Keynote Forum

09:15-09:20  Introduction
Title: Evaluation for long-term structural shading materials for use in harsh environments
Omar S Es-Said, Loyola Marymount University, USA

09:20-09:50  Title: Integrated forming processes and drop test simulations for a helicopter skid landing gear cross beam
Augustin Gakwaya, University Laval, Canada

09:50-10:20  Title: Intelligent design and creativity for smart manufacturing
Yun Li, Dongguan University of Technology, China

Networking & Refreshment Break 10:50-11:10 @ Foyer

Special Session

11:10-11:50  Title: Producing designers - development of DIT's cross-disciplinary product design programme
Colm M O’Kane and Robert Tully, Dublin Institute of Technology, Ireland

11:50-12:30  Title: Coulomb’s memoir on human-machine interaction
Agamenon R E Oliveira, Polytechnic School of Rio de Janeiro, Brazil

Group Photo @ 12:30-12:40

Lunch Break 12:40-13:40 @ Ncafe


Session Chair: Omar S Es-Said, Loyola Marymount University, USA
Session Co-chair: Augustin Gakwaya, University Laval, Canada

Session Introduction

13:40-14:05  Title: Human - exoskeleton interaction via tactile sensors for the motion assistance
Nazim Mir-Nasiri, Nazarbayev University, Kazakhstan

14:05-14:30  Title: Design and development of a step-gauge calibration system
Jr-Rung Chen, Industrial Technology Research Institute, Taiwan

14:30-14:55  Title: How to adjust the mechanical and biological properties of UHMWPE for biomedical purposes by changing the alumina-zirconia content
Maria Giulia Faga, National Research Council of Italy (CNR), Italy

14:55-15:20  Title: Flexible heat exchangers with polymeric hollow fibers
Miroslav Raudensky, Brno University of Technology, Czech Republic

15:20-15:45  Title: Ergonomics in design: Safety and user experience factors
Mahmut Ekşioglu, Bogazici University, Turkey

Networking & Refreshment Break 15:45-16:05 @ Foyer

16:05-16:30  Title: Design of Ti- and Ta-based materials by SHS
Olga Kamynina, ISMAN, Russia

16:30-16:55  Title: Hot forging process simulation for aerospace aluminum alloy using a modified Johnson-Cook equation
Kadiata Ba, University Laval, Canada
16:55-17:20 Title: Let machines do the work! Dejan Šeatović, University of Applied Sciences, Germany

Young Researchers Forum

17:20-17:35 Title: USV navigation in a real-time map using intelligent path planner Yogang Singh, University of Plymouth, UK

17:35-17:50 Title: Constrained design optimization using MATLAB & ANSYS: Assessment of accuracy & Hessian matrix assumptions Farzad Hemmati, University of British Columbia, Canada

17:50-18:05 Title: Theoretical method for prediction of press-mounting force and stress distribution in assembly process of interference fits Xingyuan Wang, Dalian University of Technology, China

Panel Discussion

Day 2 November 14, 2017

Keynote Forum

09:00-09:30 Title: Soft-robots: modeling, simulation and control Christian Duriez, INRIA, France

09:30-10:00 Title: Control / supervision design in the context of reconfigurable manufacturing systems Pascal Berruet, Lab-STICC, France

10:00-10:30 Title: Thin cable-like continuum robots for remote inspection Ian D Walker, Clemson University, USA

Networking & Refreshment Break 10:30-10:50 @ Foyer

10:50-11:20 Title: Mechatronics principles applied to collaboration between R&D and industry Andrew A Goldenberg, University of Toronto, Canada

11:20-11:50 Title: Stability of fluid film bearings under laminar and turbulent regimes Mohamed Gadala, University of British Columbia, Canada & Abu Dhabi University, UAE

Sessions: Mechatronics | Smart Materials and Technologies | Automation Engineering | Advanced Intelligent Mechatronics | Industrial Automation

Session Chair: Andrew A Goldenberg, University of Toronto, Canada
Session Co-Chair: Christian Duriez, INRIA, France

Session Introduction

11:50-12:15 Title: A semi-sequential actuator design for multipoint tools Matthias Wimmer, Munich University of Applied Sciences, Germany

Title: Influence of mold oscillation during solidification on grain size, degree of grain refinement and tensile properties of the A356 and A319 aluminum alloys S P Tewari, Indian Institute of Technology (BHU) Varanasi, India

12:40-12:55 Video Presentation

Title: Experimental investigation and prediction for tribo behavior of fillers concentrated FRP Hiral H Parikh, Navrachana University, India

Lunch Break 12:55-13:55 @ Ncafe

13:55-14:20 Title: Advanced concept in analysing tool performance in parts production processes Amirat Abdelaziz, Badjji Mokhtar University of Annaba, Algeria

14:20-14:45 Title: Quality estimation of interference fits assembly based on press-fit curve Xiaodong Wang, Dalian University of Technology, China

14:45-15:10 Title: An automated system for the design and optimization of industrial motion control machines: Development and case study Ibrahim Gadala, UBC, Canada and Mohamed Gadala, UBC, Canada & ADU, UAE
15:10-15:35 Title: Develop the path planning system for a B-axis fixed plane on a 4-axis machine tool
Hao-Ting Lin, Feng Chia University, Taiwan

15:35-16:00 Title: Fractional order PID control of rotor suspension by active magnetic bearings
Parinya Anantachaisilp, Royal Thai Air Force Academy, Thailand

16:00-16:05 Title: Universal Design Of The Subject-Spatial Environment
Albagachiev A.Y, Moscow Technological University, Russia

Networking & Refreshment Break 16:05-16:25 @ Foyer
Panel Discussion
Awards & Closing Ceremony

Bookmark your dates

3rd International Conference on Design and Production Engineering
November 05-06, 2018 London, UK
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2nd International Conference on Mechatronics, Automation and Smart Materials
October 09-10, 2018 Berlin, Germany
E: mechatronics@enggconferences.com
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