Tentative Program

3rd International Conference on Design and Production Engineering
December 03-04, 2018 Valencia, Spain

For available speaker slots
productionengineering@annualconferences.org

https://design-production.conferenceseries.com/
# 3rd International Conference on Design and Production Engineering

**December 03-04, 2018 Valencia, Spain**

## Program at a Glance

### Day 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Reception/Registration</th>
<th>08.00-09.00</th>
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<tbody>
<tr>
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<tr>
<td></td>
<td><strong>Time</strong></td>
<td><strong>General Session</strong></td>
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<tr>
<td>09.00-09.15</td>
<td></td>
<td>Inaugural Address</td>
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<tr>
<td></td>
<td>Least of 3 Keynote/Plenary Talks</td>
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<tr>
<td>09.15-09.45</td>
<td>Keynote/Plenary Talk 1</td>
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<td>09.45-10.15</td>
<td>Keynote/Plenary Talk 2</td>
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<tr>
<td>10.15-10.45</td>
<td>Keynote/Plenary Talk 3</td>
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<td></td>
<td>Coffee/Tea Break 10.45-11.00 (Networking)</td>
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<tr>
<td>11.00-12.40</td>
<td>5 Speakers (20 Mins Each)</td>
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<td>Lunch Break 12.40-13.30</td>
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<tr>
<td>13.30-15.30</td>
<td>6 Speakers (20 Mins Each)</td>
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<tr>
<td>15.45-17.25</td>
<td>5 Speakers (20 Mins Each)</td>
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### Day 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1</th>
<th>Session 2</th>
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<tr>
<td>09.00-10.40</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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<tr>
<td></td>
<td>Coffee/Tea Break 10.40-10.55 (Networking)</td>
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<tr>
<td>10.55-12.35</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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<td>Lunch Break 12.35-13.25</td>
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<tr>
<td>13.25-15.05</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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<td>Poster Sessions</td>
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<tr>
<td>15.20-17.00</td>
<td>5 Speakers (20 Mins Each)</td>
<td>5 Speakers (20 Mins Each)</td>
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**NOTE:** Program Schedule is subject to change with final allotment of the speaker slots.

### Call for Abstract:

### Registration:
[https://design-production.conferenceseries.com/registration.php](https://design-production.conferenceseries.com/registration.php)

### Abstract Submission:

### Brochure:

### For more Details PS:
[https://design-production.conferenceseries.com/productionengineering@annualconferences.org](https://design-production.conferenceseries.com/productionengineering@annualconferences.org)
Conference Highlights

- Design Engineering
- Automation Development
- Materials Science
- Industrial Design
- Design Insights
- Production Engineering
- Advanced Technology
- Interactive Aerospace
- Inter Disciplinary Aspects

- Product and Process Engineering
- Manufacturing Process
- Machine Tool Operation
- Production Management
- Heat Transfer and Thermal Engineering
- Metrology and Inspection

https://design-production.conferenceseries.com/
Plan your trip to Valencia

- Cathedral of Valencia
- Central Market
- Plaza del Reine
- Silk Exchange Market
- The Bullfighting Museum
- The Miguelete
- The Oceanographic
- The Plaza of Virgin

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Scientific Program

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

Registrations

Amphitheater

Opening Ceremony

Keynote Forum

Introduction
Title: Evaluation for long-term structural shading materials for use in harsh environments
Omar S Es-Said, Loyola Marymount University, USA
Title: Integrated forming processes and drop test simulations for a helicopter skid landing gear cross beam
Augustin Gakwaya, University Laval, Canada
Title: Intelligent design and creativity for smart manufacturing
Yun Li, Dongguan University of Technology, China

Networking & Refreshment Break

Special Session
Title: Producing designers - development of DIT’s cross-disciplinary product design programme
Colm M O’Kane and Robert Tully, Dublin Institute of Technology, Ireland
Title: Coulomb’s memoir on human-machine interaction
Agamenon R E Oliveira, Polytechnic School of Rio de Janeiro, Brazil

Group Photo
Lunch Break

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

Session Introduction
Title: Human - exoskeleton interaction via tactile sensors for the motion assistance
Nazim Mir-Nasiri, Nazarbayev University, Kazakhstan
Title: Design and development of a step-gauge calibration system
Jr-Rung Chen, Industrial Technology Research Institute, Taiwan
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
Title: Flexible heat exchangers with polymeric hollow fibers
Miroslav Raudensky, Brno University of Technology, Czech Republic
Title: Ergonomics in design: Safety and user experience factors
Mahmut Ekşioglu, Bogazici University, Turkey

Networking & Refreshment Break

Title: Design of Ti- and Ta-based materials by SHS
Olga Kamynina, ISMAN, Russia
Title: Hot forging process simulation for aerospace aluminum alloy using a modified Johnson-Cook equation
Kadiata Ba, University Laval, Canada
Title: Let machines do the work!
Dejan Šeatović, University of Applied Sciences, Germany

Young Researchers Forum
Title: USV navigation in a real-time map using intelligent path planner
Yogang Singh, University of Plymouth, UK
Panel Discussion
Day 2 November 14, 2017
Amphitheater

Keynote Forum

Title: Soft-robots: modeling, simulation and control
Christian Duriez, INRIA, France
Title: Control / supervision design in the context of reconfigurable manufacturing systems
Pascal Berruet, Lab-STICC, France
Title: Thin cable-like continuum robots for remote inspection
Ian D Walker, Clemson University, USA

Networking & Refreshment Break

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

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

Video Presentation

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

Lunch Break

Title: Advanced concept in analysing tool performance in parts production processes
Amirat Abdelaziz, Badji Mokhtar University of Annaba, Algeria
Title: Quality estimation of interference fits assembly based on press-fit curve
Xiaodong Wang, Dalian University of Technology, China
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
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
Title: Fractional order PID control of rotor suspension by active magnetic bearings
Parinya Anantachaisilp, Royal Thai Air Force Academy, Thailand

Video Presentation

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

Networking & Refreshment Break

Panel Discussion
Awards & Closing Ceremony
Bookmark your dates

3rd International Conference on
Design and Production
Engineering
December 03-04, 2018   Valencia, Spain
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W: design-production.conferenceseries.com

2nd International Conference on
Mechatronics, Automation
and Control Systems
December 03-04, 2018   Valencia, Spain
E: mechatronics@enggconferences.com
W: mechatronics.conferenceseries.com
International Conference on
Design and Production Engineering
July 25-26, 2016   Berlin, Germany
Scientific Program

Day 1 July 25, 2016

Registrations

Esperanto I +II

conference-series.com

Opening Ceremony

Keynote Forum

Introduction
Title: Digital manufacturing - From design to the internet of things
Wolfgang Gentzsch, UberCloud Community, Germany

Title: On the correlation of Charpy impact energy and hydrogen charging in 4340 steel
Omar S. Es-Said, Loyola Marymount University, USA

Sessions:
Design Engineering | Industrial Design

Session Chair: Shpend Gerguri, Oxford Brookes University, United Kingdom
Session Co-Chair: Peter Burggräf, RWTH Aachen University, Germany

Title: Towards a theory of engineering design
Jorge Angeles, McGill University, Canada

Title: The use of the theory of inventive problem solving for the design optimisation of 3D structural printed parts
Shpend Gerguri & Matteo Moretti, Oxford Brookes University, United Kingdom

Coffee Break

Title: The utilisation of knowledge for the rapid development of design engineering automation solutions
Craig Chapman, Birmingham City University, United Kingdom

Title: Quo Vadis, industrial production? Factories in the global environment
Peter Burggräf, RWTH Aachen University, Germany

Title: Elasto-plastic behaviour of sandwich cylindrical shell panels with a flexible core
Famida Fallah, Sharif University of Technology, Iran

Session: Materials Science

Session Chair: Jana Sobotová, Czech Technical University, Czech Republic
Session Co-Chair: Adel Nofal, CMRDI Cairo, Egypt

Title: Effect of sub-zero treatment on the wear resistance of P/M tool steels
Jana Sobotová, Czech Technical University, Czech Republic

Title: Primary grains and eutectic cells in thin wall ductile and compacted graphite iron castings
Marcin Górny, AGH University of Science and Technology, Poland

Lunch Break @ Esperanto

(Special Session on) Title: ADI—the prospective new material for designers and mechanical engineers
Adel Nofal, Central Metallurgical R&D Institute(CMRDI), Cairo-Egypt

Title: Influence of TiB2 and SnO2 powders on arc erosion behaviors of Ag base contact materials
Xianhui Wang, Xi’an University of Technology, China

Title: Numerical simulation on microstructure of ultralow carbon bainit in welding molten pool
Zhang Min, Xi’an University of Technology, China

Coffee Break

Title: Thermally processed austempered ductile iron -ADI
Adel Nofal, Central Metallurgical R&D Institute(CMRDI), Cairo-Egypt

Young Researchers Forum

Title: Microstructuring of glass by Spark Assisted Chemical Engraving (SACE)
Lucas Hof, Concordia University, Canada

Title: Fading of the grain refinement effects in Al-Cu alloys
Gabriela Sikora, AGH University of Science and Technology, Poland

Title: Experimental and numerical analysis of heat on the tensile properties of layered aluminium parts made by composite metal foil manufacturing
Javaid Butt, Anglia Ruskin University, United Kingdom
Title: Thermal behaviour of RHCM mold with different heating/cooling channel designs
Fatma Kria, National School of Engineers of Sfax, Tunisia

Title: The dynamic models with dissipation of water-water nuclear reactor with temperature reactivity coefficients
Le Van Dinh, Moscow Power Engineering Institute, Russia

Title: A comparison between Kanban, CONWIP and hybrid production policies in a just-in time manufacturing system
Ayden Torkabadi, University of Regina, Canada

Title: Optimization of the flexibility – efficiency trade-off in engineer-to-order industries
Cannas Violetta Giada, Polytechnic University of Milan, Italy

Title: Fracture toughness and tensile strength of 316L stainless steel cellular lattice structures manufactured using the selective laser melting technique
Hamza Alsalla, Exeter University, UK

Day 2  July 26, 2016
Esperanto I +II

Keynote Forum

Title: The value of user focused design, exemplified through a collaborative process for developing learning arenas
Petter Øyan, Oslo and Akershus University, Norway

Title: Manufacturing engineering in thermal spray technologies by advanced robot systems and process kinematics
Rainer Gadow, University of Stuttgart, Germany

Sessions:
Production Engineering & Management | Interactive Aerospace | Metrology and Inspection

Session Chair: Adriana Arineli, International Iberoamerican University, Mexico
Session Co-Chair: Drezet Jean-Marie, Ecole Polytechnique Fédérale de Lausanne, Switzerland

Title: Automatic inspection of surface cracks in welded components
Anna Runnemalm, University West, Sweden

Coffee Break @ Main Lobby

Title: Customer experience management: A new approach to increase results and longevity of business
Adriana Arineli, International Iberoamerican University, Mexico

Title: Perceived emotion induced by a surface with random roughness
Jihong Hwang, Seoul National University of Science & Technology, South Korea

Title: Quench induced stresses considering precipitation in industrial aluminum pieces
Drezet Jean-Marie, Ecole Polytechnique Fédérale de Lausanne, Switzerland

Title: Cellular automaton modeling of CFRP Component Production for airframes
Tetsuya Morimoto, Japan Aerospace Exploration Agency, Japan

Title: Numerical investigation of thermal stability in media of different physical geometries
Ramoshweu Solomon Lebelo, Vaal University of Technology, South Africa

Title: Option contract design and supply chain coordination
Gang Hao, City University of Hong Kong, Hong Kong

Coffee Break @ Main Lobby

Poster Presentations from

Sessions:
Manufacturing Process | Advanced Technology | Automation Development

Session Chair: Jan-Gunnar Persson, Royal Institute of Technology, Stockholm
Session Co-Chair: Fernando Israel Gomez-Castro, Universidad de Guanajuato, Mexico

Title: On the tailored forming of massive components: A hybrid shaft example
Deniz Duran, Leibniz University of Hanover, Germany

Title: Product development and design methodology research and application in industry
Jan-Gunnar Persson, Royal Institute of Technology– KTH, Stockholm

Title: An analytical and experimental investigation of planar flow melt spinning process to manufacture amorphous ribbons
M. Sowjanya, Muffakham Jah College of Engineering and Technology, India

Title: The predictive control principle and perspectives of its application in automatic control systems
Pikina Galina Alekseevna, National Research University “MPEI”, Russia

Coffee Break @ Main Lobby

Title: Design of separation processes: From the empirical methods to the computer-aided strategies
Fernando Israel Gomez-Castro, Universidad de Guanajuato, Mexico

Title: Tool wear improvement and machining parameter optimization in face-hobbing of bevel gears
Mohsen Habibi, Concordia University, Canada

Video Presentation
### Poster Presentations from DP001

**Title: Estimation of residual stresses in an 800 mm thick narrow-gap steel weldment**  
**N. Siva Prasad**, Gitam University, India

**Title: The Study of Zirconia Crown Milling**  
**David R Irvine**, University of the West of England, United Kingdom

**Title: Tool-glass bonding phenomenon during glass micro-machining by Spark Assisted Chemical Engraving (SACE) - Issues and opportunities**  
**Lucas Hof**, Concordia University, Canada

**Title: Production of layered metallic parts with enhanced tensile properties using the process of composite metal foil manufacturing**  
**Javaid Butt**, Anglia Ruskin University, United Kingdom

**Title: Effects of magnetorheological (MR) properties on sheet metal formability based on the pressure of MR fluids**  
**Nan Xiang**, Harbin Institute of Technology, China

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**Title: Effects of magnetorheological (MR) properties on sheet metal formability based on the pressure of MR fluids**  
**Nan Xiang**, Harbin Institute of Technology, China

**Title: Numerical analysis on the influence of the opening’s shape on the mechanical behavior of steel beams with web openings**  
**Amine Osmani**, Djillali Liabes University, Algeria

**Title: The design of a digger device for root crops harvester to operate in hard soil condition**  
**Nodari Natenadze**, Agricultural University of Georgia, Georgia

**Title: Conventional MPPT and a control system photovoltaic by fuzzy logic**  
**Wassila Issaadi**, University of Bejaia, Algeria

### Award Ceremony