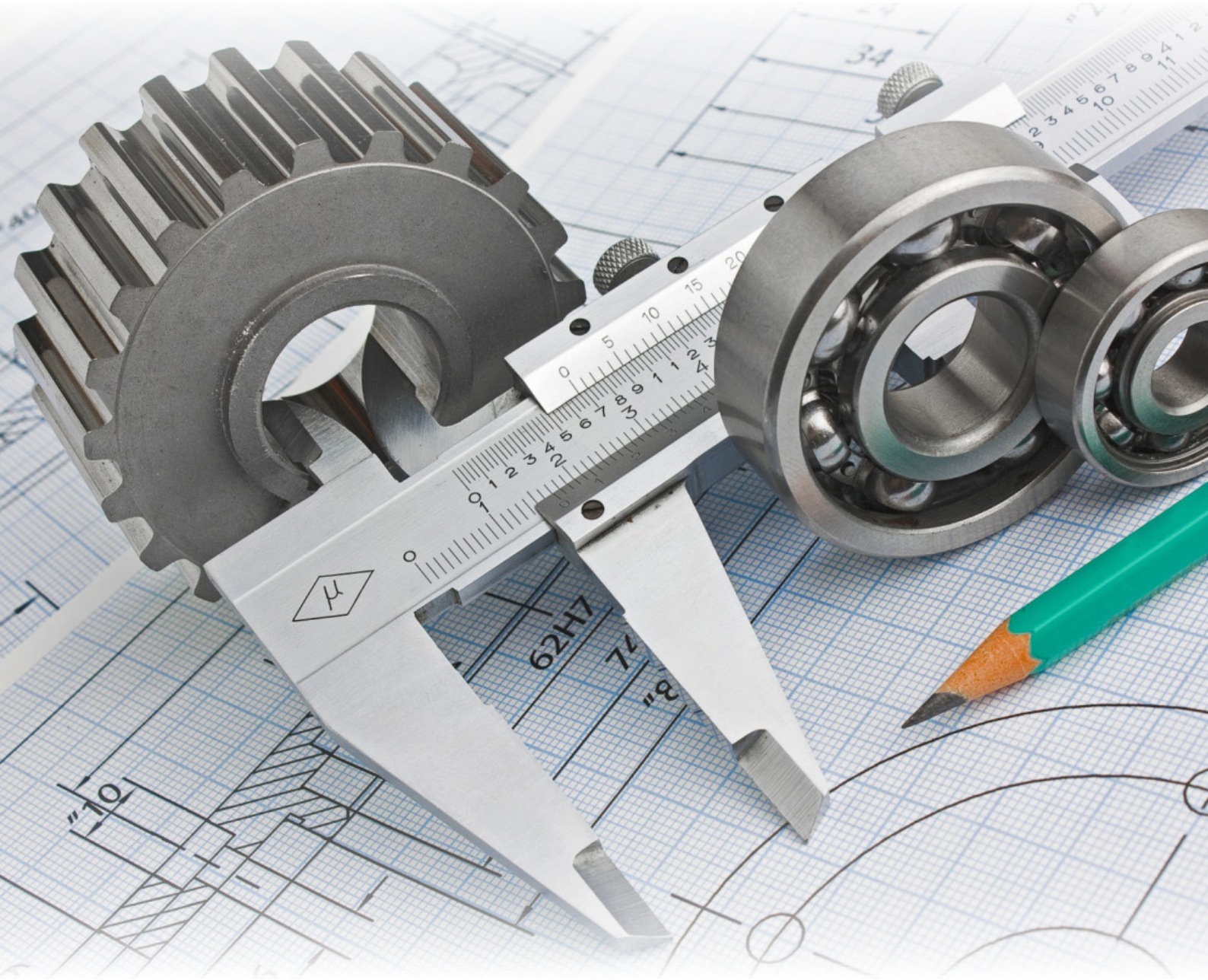
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Scientific Program

International Conference on

Design and Production Engineering

July 25-26, 2016 Berlin, Germany



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Scientific Program

Day 1 July 25, 2016

08:00-08:30 **Registrations**

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conferenceseries.com **08:30-08:55** **Opening Ceremony**

Keynote Forum

08:55-09:00	**Introduction**
09:00-09:30	**Title: Digital manufacturing - From design to the internet of things** **Wolfgang Gentzsch**, UberCloud Community, Germany
09:30-10:00	**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 Introduction

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

10:00-10:25	**Title: Towards a theory of engineering design** **Jorge Angeles**, McGill University, Canada
10:25-10:50	**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 10:50-11:05 @ Main Lobby

11:05-11:30	**Title: The utilisation of knowledge for the rapid development of design engineering automation solutions** **Craig Chapman**, Birmingham City University, United Kingdom
11:30-11:55	**Title: Quo Vadis, industrial production? Factories in the global environment** **Peter Burggräf**, RWTH Aachen University, Germany
11:55-12:20	**Title: Elasto-plastic behaviour of sandwich cylindrical shell panels with a flexible core** **Famida Fallah**, Sharif University of Technology, Iran

Session:
Materials Science

Session Introduction

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

12:20-12:45	**Title:Effect of sub-zero treatment on the wear resistance of P/M tool steels** **Jana Sobotová**, Czech Technical University, Czech Republic
12:45-13:10	**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 I +II 13:10-13:55

13:55 - 14: 45	**(Special Session on) Title: ADI-the prospective new material for designers and mechanical engineers** **Adel Nofal**, Central Metallurgical R&D Institute(CMRDI), Cairo-Egypt
14:45-15:10	**Title: Influence of TiB2 and SnO2 powders on arc erosion behaviors of Ag base contact materials** **Xianhui Wang**, Xi'an University of Technology, China
15:10-15:55	**Title: Numerical simulation on microstructure of ultralow carbon bainit in welding molten pool** **Zhang Min**, Xi'an University of Technology, China

Coffee Break 15:55-16:10 @ Main Lobby

6:10-16:35	**Title: Thermally processed austempered ductile iron -ADI** **Adel Nofal**, Central Metallurgical R&D Institute(CMRDI), Cairo-Egypt

Young Researchers Forum

16:35-16:45	**Title: Microstructuring of glass by Spark Assisted Chemical Engraving (SACE)** **Lucas Hof**, Concordia University, Canada

16:45-16:55	**Title: Fading of the grain refinemnet effects in Al-Cu alloys** **Gabriela Sikora,** AGH University of Science and Technology, Poland
16:55-17:05	**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
17:05-17:15	**Title: Thermal behaviour of RHCM mold with different heating/cooling channel designs** **Fatma Kria,** National School of Engineers of Sfax, Tunisia
17:15-17:25	**Title: The dynamic models with dissipation of water-water nuclear reactor with temperature reactivity coefficients** **Le Van Dinh,** Moscow Power Enginering Institute, Russia
17:25-17:35	**Title: A comparison between Kanban, CONWIP and hybrid production policies in a just-in time manufacturing system** **Ayden Torkabadi,** University of Regina, Canada
17:35-17:45	**Title: Optimization of the flexibility – efficiency trade-off in engineer-to-order industries** **Cannas Violetta Giada,** Polytechnic University of Milan, Italy
17:45-17:55	**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

09:00-09:30	**Title: The value of user focused design, exemplified through a collaborative process for developing learning arenas** **Petter Øyan,** Oslo and Akershus University, Norway
09:30-10:00	**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 Introduction

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

10:00-10:25	**Title: Automatic inspection of surface cracks in welded components** **Anna Runnemalm,** University West, Sweden

Coffee Break @ Main Lobby 10:25-10:40

10:40-11:05	**Title: Customer experience management: A new approach to increase results and longevity of business** **Adriana Arineli,** International Iberoamerican University, Mexico
11:05-11:30	**Title: Perceived emotion induced by a surface with random roughness** **Jihong Hwang,** Seoul National University of Science & Technology, South Korea
11:30-11:55	**Title: Quench induced stresses considering precipitation in industrial aluminum pieces** **Drezet Jean-Marie,** Ecole Polytechnique Fédérale de Lausanne, Switzerland
11:55-12:20	**Title: Cellular automaton modeling of CFRP Component Production for airframes** **Tetsuya Morimoto,** Japan Aerospace Exploration Agency, Japan
12:20-12:45	**Title: Numerical investigation of thermal stability in media of different physical geometries** **Ramoshweu Solomon Lebelo,** Vaal University of Technology, South Africa
12:45-13:10	**Title: Option contract design and supply chain coordination** **Gang Hao,** City University of Hong Kong, Hong Kong

Lunch Break @ Esperanto I +II 13:10-13:40

Poster Presentations from 13:40-14:05

Sessions:
Manufacturing Process | Advanced Technology | Automation Development

Session Introduction

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

14:05-14:30	**Title: On the tailored forming of massive components: A hybrid shaft example** **Deniz Duran,** Leibniz University of Hanover, Germany

14:30-14:55	**Title: Product development and design methodology research and application in industry** **Jan-Gunnar Persson,** Royal Institute of Technology– KTH, Stockholm
14:55-15:20	**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
15:20-15:45	**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 15:45-16:00
16:00-16:25	**Title: Design of separation processes: From the empirical methods to the computer-aided strategies** **Fernando Israel Gomez-Castro,** Universidad de Guanajuato, Mexico
	Video Presentation
16:25-16:50	**Title: Tool wear improvement and machining parameter optimization in face-hobbing of bevel gears** **Mohsen Habibi,** Concordia University, Canada
16:50-17:15	**Title: Estimation of residual stresses in an 800 mm thick narrow-gap steel weldment** **N. Siva Prasad,** Gitam University, India
	Poster Presentations from 13:40-14:05
DP001	**Title: The Study of Zirconia Crown Milling** **David R Irvine,** University of the West of England, United Kingdom
DP002	**Title: Tool-glass bonding phenomenon during glass micro-machining by Spark Assisted Chemical Engraving (SACE) - Issues and opportunities** **Lucas Hof,** Concordia University, Canada
DP003	**Title: Production of layered metallic parts with enhanced tensile properties using the process of composite metal foil manufacturing** **Javaid Butt,** Anglia Ruskin University, UK
DP004	**Title: Effects of magnetorheological (MR) properties on sheet metal formability based on the pressure of MR fluids** **Nan Xiang,** Harbin Institute of Technology, China
DP005	**Title: Lateral buckling of box beam elements under combined** **Abdelkader Saoula,** Ibn Khaldoun University of Tiaret, Algeria
DP006	**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
DP007	**Title: The design of a digger device for root crops harvester to operate in hard soil condition** **Nodari Natenadze,** Agricultural university of Georgia, Georgia
DP008	**Title: Conventional MPPT and a control system photovoltaic by fuzzy logic** **Wassila Issaadi,** University of Bejaïa, Algeria
	Award Ceremony

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