



## Conference program

### 4<sup>th</sup> April 2017 (Tuesday)

<b>18:00-20:00</b>	<b>Registration and welcome drink</b>
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### 5<sup>th</sup> April 2017 (Wednesday)

<b>08:30-9:30</b>	<b>Registration</b>
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<b>09:30-10:00</b>	<b>Opening ceremony</b> <i>(Hall Karaka)</i>
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<b>10:00-10:30</b>	<b>Invited lectures</b> <i>(Hall Karaka)</i>
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M. Šercer	Industry 4.0 and Additive Manufacturing
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<b>10:30-11:00</b>	<i>Coffee break</i>
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<b>11:00-12:00</b>	<b>Invited lectures</b> <i>(Hall Karaka)</i>
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P. Golinska-Dawson	Remanufacturing – a Step to the Resource-Efficient Economy
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D. Pavković	Current Trends in Oil & Gas Drilling Systems R&D with Emphasis on Croatian Oil & Gas Drilling Sector
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<b>13:00-14:00</b>	<i>Lunch break</i>
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<b>14:00-15:30</b>	<b>Production Management</b> <i>(Hall Karaka)</i>
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<b>Keynote speaker</b> M. Kovačić	Genetic Programming and Štore Steel Ltd.
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B. Schmager	Using a Multi-Touch-Board for Decision Assistance in Production Control Situations on the Shopfloor
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T. Slavina	Model of Integrated System for Monitoring and Increasing Availability and Efficiency of Production Equipment
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S. P. Živković, V. D. Majstorović <sup>2</sup>	Manufacturing Metrology Approach for a Turbine Blade in Cyber-Physical Environment
M. Kušmišević, M. Trstenjak, P. Cosic	Product Lifecycle Management through Production of Electromotor
<b>15:00-16:30</b>	<b>Production Management</b> <i>(Hall Galijun)</i>
<b>Section 1B</b>	
D. Pezer	Planning of Drilling Sequence Using the Swarm Intelligence Method
I. Lekšić	Lean Model for Construction Project Effectiveness Measurement
S. Schmidt, B. S. G. Schmidt	Maintainability, Reliability and Serviceability – Industrial Examples Automotive Industry
C. Kleinschrodt, R. Hackenschmidt, F. Rieg	Strategies for Improving the Quality of Transferred 3D Models in the Context of the Tool Industry
A. Margarin, M. Trstenjak, M. Kušmišević, P. Čosić	Simulation of Production of Axial FANs and PLM Concept
<b>17:00-19:30</b>	<b>Excursion by touristic guide to the city of Dubrovnik</b>
<b>6<sup>th</sup> April 2017 (Thursday)</b>	
<b>09:00-10:30</b>	<b>Production Management</b> <i>(Hall Karaka)</i>
<b>Section 2A</b>	
C. Biegler, C. Lemmerer, P., Schieder, W. Sihn	Managing Global Production Networks: Integrating Performance Measurement into Agent Based Simulation to Support Strategic Decision Making
J. Hemilä, P. Jaring	Accelerating Idea to Market Process in Manufacturing Industries
Y.-C. Wang, L.-H. Shyu, P.-C. Tung, C.-P. Chang, H.-T. Shih, E. Manske	Optimization of the Linear Positioning Calibration for Machine Tools
C. Brandstaetter, D. Wilfinger	Investment Behaviour of Small and Medium-sized Enterprises for a

	Sustainable Economic Growth after Financial Crises
<b>09:00-10:30</b>	<b>Logistics</b> <i>(Hall Galijun)</i>
<b>Section 2B</b>	
<b>Keynote speaker</b> S. Renko	Logistics as a Link for Sustainability and the Circular Economy
D. P. Tomanek, J. Schröder	Traffic Load Heat Map – an Innovative Approach for the Analysis and Optimization of Internal Traffic
T. Chinda, T. Chaumdee, S. Suesakul, K. Chairatana, S. Tanatat, K. Noinonthong	System Dynamics Modeling of Reverse Logistics of Plastic Material in Thai Construction Industry
D. De Wolf	Mathematical Properties of Formulations of the Gas Transmission Problem
<b>10:30-11:00</b>	<i>Coffee break</i>
<b>11:00-12:30</b>	<b>Industry 4.0 and Sustainability</b> <i>(Hall Karaka)</i>
<b>Section 3A</b>	
<b>Keynote speaker</b> M. Butlewski	Aging European populations: a challenge for ergonomics in the face of Industry 4.0
R. Bernerstätter	Data Maturity for Smart Factory Applications – an Assessment Model
M. Wolf, M. Kleindienst, C. Ramsauer, C. Zierler, E. Winter	Current and Future Industrial Challenges: Demographic Change and Measures for Elderly Workers in Industry 4.0
H. Brunner, P. Rossbacher, M. Hirz	Sustainable Product Development: Provision of Information in Early Automotive Engineering Phases
M. Trstenjak, P. Čosić	Industry 4.0 Readiness Factor Calculation – Problem Structuring
<b>11:00-12:30</b>	<b>Robotics and Maintenance</b> <i>(Hall Galijun)</i>
<b>Section 3B</b>	
B. Walzel, M. Hirz	Sensor Concepts for Charging Slow Proximity Localization for Automated Conductive Charging of Electric and Plug-In Hybrid Vehicles
M. Hirz, M. Ernst	Development and Manufacturing Process Optimization of Mechatronics Products by Innovative Key

	Performance Indicators
A. Kinz	Minimizing Transaction Costs in Service Relationships – a Model to Regulate Outsourcing Processes in the Lean Smart Maintenance
I. Jevtić, G. Ivanović	IS for Management of Maintenance System for Vehicle & Work Machines
<b>12:30-14:00</b>	<i>Lunch break</i>
<b>14:00-15:30</b> <b>Section A</b>	<b>Sustainability and Production Management</b> <i>(Hall Karaka)</i>
<b>Keynote speaker</b> J. Tupa	Why a Sustainability Enterprises Risk Management Is Needed
B. Vučijak, M. Pašić, I. Bijelonja	Financial Sustainability of Public Utilities in Western Balkans
P. Girrbach	Value-Based Corporate Governance – the Power of Silent Leadership
H.-H. Cheng	The Antecedents of Electronic Word of Mouth on Social Commerce Websites: The Role of Gender Differences
S. Ebelt, M. Regenfelder, A. P. Slovak	Implementing Material Efficiency Requirements of the European Ecodesign Directive – CEN/CENELEC TC10 and the Joint Working Group DIN NA 172-00-14 GA
<b>15:30-16:30</b>	<b>Poster section</b>
M. Hammer, H. Karre, C. Ramsauer	Resource-Productive Operations – How Lean, Green and Constraint Management Approaches Blend Together
U. Župerl, F. Čuš	Teaching-Learning Based Algorithm Combined with Cutting Force Modelling for End Milling Optimization
R. Seferović, E. Aganović, D. Mujagić	Contribution to Modeling Process of Prototype Castings
M. Švaco, N. Vitez, B. Jerbić, F. Šuligoj, B.	Experimental Evaluation of Parameters for Robotic Contouring Force Feedback Applications

Šekoranja, J. Vidaković	
B. Gajšek, G. Đukić, T. Opetuk, H. Cajner	Human in Manual Order Picking Systems
I. B. Jałmużna, J. Królikowski, J. Sałata	Methodology of Rapid Verification of Work Standards
K. Stopar, M. Kovačić, P. Kitak, J. Pihler	Electric Arc Modeling of the Electric Arc Furnace Using Genetic Algorithm
<b>20:00 -01:00</b>	<b>Gala dinner</b> (Restaurant <i>Langusto</i> )
<b>7<sup>th</sup> April 2017 (Friday)</b>	
<b>08:30-16:00</b>	<b>Excursion to Konavle and Cavtat</b>



### MOTSP 2017 ORGANIZING COMMITTEE

Predrag Ćosić  
Gordana Barić  
Goran Đukić  
Matija Kušmičević  
Antonio Margarin  
Tihomir Opetuk  
Max Regenfelder  
Maja Trstenjak

**Venue**  
Hotel *Argosy*  
Dubrovnik, Croatia

### Organizers

