



# MANAGEMENT OF MANUFACTURING SYSTEMS

4th EAI International Conference on Management of Manufacturing Systems



Register here: [manusystems.org/registration](http://manusystems.org/registration)

October 8-10, 2019, Krynica Zdroj, Poland



## FULL PROGRAM MMS 2019

### Krynica-Zdrój, Poland

#### 08.10.2019 (Tuesday)

14:00- Hotel Check-in

15:00-16:00 Registration

15:30 -16:00 Coffee Break

#### 16:00-17:00 Keynote speakers session

16:00-16:30 **Dr.h.c. Prof. Dr. Jozef Zajac**- Dean of Faculty of Manufacturing Technologies with a seat in Prešov, Technical University of Košice, Slovak Republic  
Title: Chemical Management in Automotive and Mass Industry

16:30-17:00 **Assoc. Prof. Olaf Cizak, Ph.D., DSc.**- Dean of Faculty of Mechanical Engineering and Management, Poznan University of Technology, Poland  
Title: Industry 4.0: Most important technologies

18:00- Discussion and networking evening /Welcome drink

#### 09.10.2019 (Wednesday)

08:00-09:00 Registration

#### 09:00:10:00 Keynote speakers session

09:00-09:30 **Assoc.Prof. Dr. Vitalii Ivanov, Ing.Paed.IGIP**-Sumy State University, Ukraine  
Title: Multiaxis Machining of Complex Parts in Multiproduct Manufacturing

09:30-10:00 **Prof. Dr. Dragan Peraković**- Faculty of Transport and Traffic Sciences, University of Zagreb, Croatia  
Title: Identification of the relevant parameters for modeling the communication ecosystem elements in Industry 4.0



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## **10:00-10:30 Coffee Break**

## **10:30-12:00 Technical program and panel discussion**

10:30-10:45 **Ivan Cvitić et al.**- Definition of the IoT device classes based on network traffic flow features (Croatia)

10:45-11:00 **Jiří Tengler and Jana Pekná** - Possibility of identification transport units through RFID technology at own level of the company (Slovak Republic)

11:00-11:15 **Muaaz Abdul Hadi, Markus Brillinger, Franz Haas**- Adaptive Assembly Approach for E-Axles (Austria)

## **12:00-13:00 Lunch**

## **13:00-16:00 Special guests (business) session and panel discussion**

13:00-13:20 **Dr.h.c. Prof. Dr. Juraj Sinay**- "Can electromobility be the mobility of the future?"  
Technical University of Košice, Slovak Republic

13:25-13:45 **Prof. Dr. Janusz Grabara**- Human Factor in the Age of Artificial Intelligence,  
Sustainable Development and Industry 4.0, Czestochowa University, Poland

13:50-14:10 **MSc.Eng. Daniel Tomko- Tomark, s.r.o. Prešov**, Slovak Republic

## **14:15-14:45 Coffee Break**

14:50-15:10 **Dr. Jaroslav Jaduš- LED Solar, s.r.o., Prešov**, Slovak Republic

15:15-16:00 **KARLOFF, s.r.o.(TatraTea Presentation)**, Slovak Republic



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## 16:00-17:00 Poster Session presentation

**Kamil Židek, Ján Piteľ, Ivan Pavlenko, Peter Lazorík, Alexander Hošovský** -Digital twin of experimental workplace for quality control with Cloud Platform support

**Peter Trebuňa, Miriam Pekarčíková, Marek Kliment** -Testing the replenishment model strategy using software Tecnomatix Plant Simulation (Slovak Republic)

**Lucia Knapčíková, Jozef Husár, Patrik Kaščák**- Automatic Identification Applications for Smart Railway Concept

**Matúš Tkáč, Peter Mesároš Marcel Behún, Tomáš Mandičák**- Aerial Photogrammetry and Unmanned Aerial Vehicles (UAVs) like a smart technology for digital as-built mapping of existing buildings

**Stella Hrehová**- Possibilities of data analysis using data model

**Daniela Onofrejova, Jaroslava Kadarova, Dusan Simsik and Jaroslava Janekova**- Evaluation Of the Workplace In Order To Reduce Waste In Material Flow

**Peter Mesároš, Tomáš Mandičák, Annamária Behúnová, Katarína Krajníková, Jana Smetanková, Marcel Behún**- Impact of BIM Technology on Time-reducing in Conditions of Slovak Construction Industry

**Michaela Očenášová, Ľubica Kozáková, Csaba Farkaš, Petra Plesková, Martin Paška**- Hazardous work and destructive elements in the working environment and risk categories in a mining company

**Peter Mesároš, Tomáš Mandičák, Annamária Behúnová, Jana Smetanková, Katarína Krajníková**- Impact of BIM technology on development of digital and managerial competencies of project managers in construction industry

**Michaela Očenášová, Jana Ocilková, Martin Ocilka**- Management of time structure with respect of a production process efficiency

**Hamerníková, B., Fábera, V., Beneš, V., Jetmar, M., Jeřábek, M., Kubát, J., Pančík, J., Plaček, M.**- On statistical methods based information system for decision support of municipalities

**Michal Balog, Angelina Iakovets, Jozef Husar**- RFID Monitoring and Accounting System in Health-care Facilities

**Michal Jerabek, Jan Kubat, Vít Fabera**- Smart, Smarter and Smartest City- the Method to Comparison of Cities

**Lucia Domaracká, Barbora Benčňová, Marcela Taušová, Daniel Šlosár, Marián Albert**- Statistical Evaluation of Market Potential Location of a New Product that Uses Renewable Energy Sources

**Jozef Husár, Lucia Knapčíková, Patrik Kaščák, Matej Hrabčák**- The Concept of Implementing NFC Identification Technology for Transporting and Monitoring of Biological Samples



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**Dušan Knežo, Denisa Olekšáková-** Regression Model by the Management for Preparation of the Permalloy Sample

**Juraj Sinay, Marta Vargová, Juraj Glatz, Marianna Tomaskova-** Lifts as Part of Smart Buildings

**Katarína Čulková, Andrea Rosová, Michal Cehlár, Henrieta Pavolová-** Development of chosen social and economic indicators of raw materials using in context of sustainability in Slovakia

**Peter Michalik, Michal Hatala, Luboslav Straka et al.-** Optimizing component production with multi-axis turning technology

**Jozef Trojan, Peter Trebuňa, Marek Mizerak-** Innovation the production line in the enterprise with help of module TX Process Simulate

**Marek Kliment, Peter Trebuňa, Miriam Pekarčíková-**The proposal to increase the efficiency of the production process by a software module Tecnomatix Plant Simulation

**Martin Straka, Janka Šaderová, Peter Bindzár-** Simulation and Modelling of Transport Processes for the Needs of Mineral Resources Delivery Support

**18:00- 24:00 Gala dinner/ Social evening with Slovak national music band- Rolland**

## 10.10.2019 (Thursday)

09:00-11:00 Technical excursion across the Krynica- Zdrój Spa Town

„Wieza Widokowa“ <https://wieszawidokowa.pl/>

11:00-12:00 Poster Session/Closing and awarding ceremony

12:00-13:00 Lunch