



EAI MMS 2024 - 9th EAI International Conference on Management of Manufacturing Systems

*October 9-11, 2024
Dubrovnik, Croatia*

Preliminary Conference Program

The participants of EAI MMS 2024 are welcome to join the interesting scientific presentations provided by our co-located conference [EAI ICDF2C 2024](#)

Wednesday, 9th of October 2024

15:00 -16:00 Registration

16:00-17:30 Opening Ceremony (incl. dinner)

Welcome Speech

- **Prof. Dragan Peraković**
University of Zagreb, Faculty of Transport and Traffic Science, Croatia
- **Assoc. Prof. Lucia Knapčíková**
Technical University of Košice, Faculty of Manufacturing Technologies, Slovak Republic

17:30 Departure to Social Program - Cruise around Dubrovnik (together with co-located conference [EAI ICDF2C 2024](#))

Thursday, 10th of October 2024

09:00-10:15 Keynote Talks

Prof. Srdjan Capkun, ETH Zurich, Switzerland

Prof. Enes Sukić, University Union- Nikola Tesla, Belgrade, Serbia

10:15-10:45 Industry presentations

Ventura Enterprise Risk Management, Brazil

DCSO Deutsche Cyber-Sicherheitsorganisation GmbH, Germany

INsig2, Croatia

10:45-11:00 Coffee Break

11:00-16:00 Plenary session/Oral Presentations

11:00-11:15 André Ribeiro, André S. Santos, Leonilde R. Varela Olena Hrybiuk, Miguel Bastos Gomes and José Machado- Artificial Intelligence in the Lot-Sizing Problem: An Overview and Future Paths

11:20-11:35 Markus Brillinger, Florian Lackner, Muaaz Abdul Hadi, Konrad Diwold, Amer Kajmakovic et al. - Achieving economic sustainability via low-cost automation techniques - a novel study

11:40-11:55 Natalya Shramenko, Christoph Hupfer, Vladyslav Shramenko, and Piotr Trojanowski- Electric Cargo Bikes in Urban Logistics: Scenarios and Their Contribution to Sustainable Mobility

12:00-12:15 Rebeka Tauberová, Lucia Knapčíková, Dorota Czarnecka-Komorowska, Waldemar Matysiak, Jakub Hajkowski, Jerzy Winczek, Daniel Strametz -Application of recycled materials into sustainable manufacturing in the context of Industry 5.0

12:30-14:00 Lunch

14:00-14:15 Dalibor Šeljmeši, Vladimir Brtka, Gordana Jotanović, Goran Jauševac, Eleonora Brtka, and Dragan Peraković- Enhanced Inception-Aided MobileNet: Optimizing Deep Learning Performance on Resource-Constrained Devices

14:20- 14:35 Samer Al-Rabeei, Peter Korba, Volodymyr Tymofiiv, Michal Hovanec, Martin Venceľ- Using additive manufacturing in the supply chain management of the aerospace industry

14:40-14:55 Marko Periša, Petra Teskera, Ivan Cvitić, Markus Brillinger- Conceptual Framework for Designing Assistive Technologies in the User's Working Environment

15:00-15:15 Jana Smetanková, Mária Grazianová, Rastislav Ručinský, Peter Mésároš- Theoretical framework, development and impact of technological advances on Life Cycle Costing of buildings

15:30-15:45 Coffee Break

15:45-16:30 Poster Session

Posters presentation /5 min per poster

Marek Ondov, Andrea Rosová, Marian Šofranko and Patrícia Muchová-Case study: Simulation approach to improve the efficiency of warehousing processes

Michal Beno and Dagmar Caganova- Smart Home Settings: qualitative evaluation by Smart Home Officers

Jozef Husár, Stella Hrehová, Jakub Kaščák, Justyna Trojanowska, Katarzyna Antosz-Industry 5.0 Based Virtual Enterprise Concept in a PLM Software Environment with IIoT Implementation for Energy Consumption Monitoring

Annamária Behúnová, Tomáš Mandičák and Marcel Behún- The Potential Use of Artificial Intelligence in Building Information Modeling within Industry 4.0

Mária Grazianová, Jana Smetanková, Rastislav Ručinský, Peter Mésároš - Economic benefits of retrofitting historic buildings: a review from the perspective of LCA, LCC and Cost Optimal

Ivan Cvitić, Dragan Peraković, Mijo Šarčević, Mihovil Perlić- Research on the Impact of Short-Range Technology as Cyber Attack Vector

Andrea Senova and Miroslav Betus- Design of an Efficient Production Process and Logistics Activities in a Manufacturing Company

19:00-23:00 Gala Dinner in Dubrovnik Old Town + Best Paper Award (together with co-located conference [EAI ICDF2C 2024](#))

Friday, 11th of October 2024

09:00-13:00 Technical Session and Closing Ceremony