

23rd International Scientific Conference

October 5th - 6th 2023
Osijek (Croatia)

Organized and hosted by:



JOSIP JURAJ STROSSMAYER
UNIVERSITY IN OSIEK



BUSINESS LOGISTICS in Modern Management

Conference Program

at Faculty of Economics and Business in Osijek, Croatia

Thursday - October 5th, 2023

ROOM 1

9:00 – 9:15	OPENING OF INTERNATIONAL SCIENTIFIC CONFERENCE
9:15 – 10:00	Dr. Márton Lányi, Managing Director of Kühne + Nagel Kft., Hungary Lecture: Actual challenges and opportunities of the intermodality in Hungary
10:00 – 10:15	COFFEE BREAK (room 7)



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10:15 – 12:00 CONFERENCE SESSION

SESSION 1 - SUPPLY CHAIN AND DISTRIBUTION ISSUES - URBAN AND HUMANITARIAN LOGISTICS

Session chair: **Katija Vojvodić** (University of Dubrovnik, Croatia)

ROOM 7

Arkadiusz Kawa and Bartłomiej Pierański (Łukasiewicz Research Network - Poznan Institute of Technology / Poznan School of Logistics; Poznan University of Economic, Poland)
Wood biomass in supply chain – evidence from the FGI studies

Theodor Petřík and Martin Plajner (Institute of Economic Studies, Charles University; Czech Academy of Sciences, Czech Republic)
Finding an Optimal Distribution Strategy Path in an Unpredictable Environment

Zdenka Bulková, Jozef Gašparík, Vladislav Zitricky and Borna Abramović (University of Žilina, Slovakia; University of Zagreb, Croatia)
Tendering of rail transport services in Slovakia – case study

Marta Cudziło, Adam Koliński, Michał Adamczak and Roman Domański (Łukasiewicz Research Network – Poznan Institute of Technology; Poznan School of Logistics, Poznan University of Technology, Poland)
The impact of electronic despatch advice on the service time of a means of transport in a distribution center

Milan Dedík, Pavol Meško and Lumír Pečený (University of Žilina, Slovakia)
The implementation of the park and ride logistics technology to improve the quality of passenger transport in the Tatra region in Slovakia

Łukasz Brzeziński and Adam Koliński (Łukasiewicz-Poznan Institute of Technology, Poland)
Analysis of smart mobility solutions in selected urban centers in Poland

Dusan Repik and Pavel Foltin (University of Defence, Czech Republic)
Analysis of the problems of performance management of humanitarian supply chains

Norina Szander, Ola Qasseer and Péter Bajor (KTI Hungarian Institute for Transport Sciences and Logistics Non Profit Ltd, Hungary)
Methods and Techniques to involve freight actors in the R&D process towards digitalised intermodal cooperation

12:00 – 12:15 COFFEE BREAK



12:15 – 14:00 CONFERENCE SESSION

SESSION 2 – GREEN LOGISTICS

– RESILIENCE SIMULATIONS AND RISK MANAGEMENT

Session chair: **Adam Kolinski** (Poznan School of Logistics, Lukaszewicz Research Network – Poznan Institute of Technology, Poland)

ROOM 7

Sascha Dürkop and Jakob Grubmüller (Hochschule Fulda - University of Applied Sciences, Germany)

Emission-free logistics in remote rural areas

Dejan Mirčetić, Svetlana Nikoličić, Marinko Maslarić and Sanja Bojić (The AI Institute; University of Novi Sad, Serbia)

Assessment of technological and organisational improvements in the logistic distribution hub using discrete event simulation

Damian Dubisz (Łukasiewicz Research Network – Poznań Institute of Technology, Poland)

Optimisation of the reversed supply chain of wood biomass in the perspective of its emissivity - case study

Attila Turi (Universitatea Politehnica Timisoara, Romania)

Reverse Bullwhip Effect in Automotive Industry: Case Study from Romania

Dražen Ćučić, Mladen Pancić and Hrvoje Serdarušić (J.J. Strossmayer University of Osijek, Croatia)

Future of transport and Green deal

Judit Nagy and Pavel Foltin (Corvinus University of Budapest, Hungary; University of Defence, Brno, Czech Republic)

The effects of supply chain complexity on resilience – a simulation-based study

Davor Mance, Siniša Vilke and Borna Debelić (University of Rijeka, Croatia)

Impact of ICT on regional supply chains in CEECs

Anna Freund, Zsófia Jámbor and Judit Nagy (Corvinus University of Budapest, Hungary)

Comparative analysis of critical infrastructure in Hungary and Germany - Factors of resilience in the food supply chain

Madalina Floriana Faget (University Politehnica Timisoara, Romania)

Allocation measures in a volatile market

14:00 – Lunch at EFOS (in front of room 7)

15:00 – Gathering in front of EFOS (bus station)

- Visit to Opus Arena (FC Osijek stadium), and Belje wine cellar
- Dinner for all participants at restaurant Josić



Friday - October 6th, 2023

9:30 – 11:30 CONFERENCE SESSION

SESSION 3 – DIGITALIZATION IN LOGISTICS – OPTIMIZATION METHODS IN LOGISTICS

Session chair: **Jelena Franjković (University of Osijek, Croatia) & Valentas Gružasuskas (Vilnius Gediminas Technical University, Lithuania)**

BOARD ROOM

Khaled El Sakty, Mohamed Abdelraouf and Samira Allam (Arab Academy for Science and Technology and Maritime Transport, Badr University, Egypt)

How logistics performance reshapes the movement of stocks in the context of climate change?

Irene Navarro del Aguila and Jeronimo de Burgos Jiménez (University of Almería, Spain)

Analysis of last-mile logistics in short agri-food supply chains

Jevgenia Kim and Jelizaveta Janno (TalTech, Estonia)

Sustainability Model for Estonia Through Integration of Reverse Logistics

Borut Jereb and Milena Kajba (University of Maribor, Slovenia)

Logistics systems digitalisation and software quality: its significance and correlations with ISO/IEC 25010

Milena Kajba, Matevž Obrecht and Tina Cvahte Ojsteršek (University of Maribor, Slovenia)

How can Digital Twins enable a more sustainable Logistics industry?

Mladen Pancić (J.J. Strossmayer University of Osijek, Croatia)

The impact of blockchain in consumer marketing among various industries

Robert Idlbek and Verica Budimir (Faculty of Tourism and Rural Development in Pozega, Croatia)

The Role of IoT Data Aggregators for optimising object tracking and KPI monitoring

Drago Pupavac and Ljudevit Krpan (Polytechnic of Rijeka; University North, Croatia)

Achieving dynamic stability of supply chains in the Whirlpool changes

Martina Briš Alić (J.J. Strossmayer University of Osijek, Croatia)

The optimization methods in supply chain management – a bibliometric analysis

Slavomir Vukmirović, Zvonko Čapko and Antonia Džido (University of Rijeka, Croatia)

Transport network optimization based on finding optimal and suboptimal solutions on the example of the Rijeka urban agglomeration

Roman Gumzej, Tomaž Kramberger, Davor Dujak (University of Maribor, Slovenia; J.J. Strossmayer University of Osijek, Croatia)

A Knowledge Base for Strategic Logistics Planning

Valentas Gružasuskas, Aurelija Burinskiene and Davor Dujak (Vilnius Gediminas Technical University, Lithuania; J.J. Strossmayer University of Osijek, Croatia)

Traffic forecasting for dynamic route scheduling



11:30 – 11:45 COFFEE BREAK

11:45 – 12:45 CONFERENCE SESSION

SESSION 4 – MACROLOGISTICS PERFORMANCE

Session chair: **Davor Dujak** (University of Osijek, Croatia)

BOARD ROOM

Radojko Lukić and Blaženka Hadrović Zekić (University of Belgrade, Serbia; J.J. Strossmayer University of Osijek, Croatia)
Evaluation of Transport and Storage Performance of the European Union and Serbia Based on SF-WASPAS and WASPAS Methods

Ivan Kristek (J.J. Strossmayer University of Osijek, Croatia)
An analysis of the relationship between road freight transport and economic growth in the European Union: a panel data approach

Helga Pavlić Skender (University of Rijeka, Croatia)
An analysis of the logistics market and third-party logistics providers

Mateja Čuček and Sonja Mlaker Kač (University of Maribor, Slovenia)
Projected and expected competences in logistics and supply chain in Slovenia

12:45 – 13:00 CONFERENCE CLOSURE

