

Sustainable Transportation Solutions

Chairman – Prof. **A. Keršys**

Co-Chairman – **M. Dagilis**

10.00 – 18.00	Session
11.40 – 12.00	Coffee Break
13.30 – 14.15	Lunch
16.00 – 16.20	Coffee Break

Estimation of Environmental Footprint Caused by Freight Vehicles Using WIM Data in a Local Scale

W. Loga-Księska, K. Brzozowski, University of Bielsko-Biala (Poland)

Mobile Road Condition Measurement as Support of RWIS in Urban Areas

W. Loga-Księska, J. Sordyl, University of Bielsko-Biala (Poland)

Development and Application of Mechanism for Real Rollover Crash Tests

P. Vertal', J. Janura, G. Kasanický, J. Bernát, University of Zilina (Slovak Republic)

Evaluation of Rollover Crash Test CDR Data

P. Vertal', J. Janura, G. Kasanický, University of Zilina (Slovak Republic)

Accidents of Emergency Vehicles

P. Vertal', E. Kolla, G. Kasanický, S. Stehel, J. Janura, University of Zilina (Slovak Republic)

Pedestrian Vehicle Accidents and Design of a Test System for the Needs of Forensic Science

J. Bernát, G. Kasanický, P. Vertal', University of Zilina (Slovak Republic)

The Impact of the COVID-19 Pandemic on Traffic Accident Statistics in Slovak Republic

S. Stehel, P. Vertal', G. Kasanický, University of Zilina (Slovak Republic)

Computer Vision Based Sensor System for Autonomous Vehicles

M. Gorobetz, A. Bangalore Srinivasa, Riga Technical University (Latvia)

Attitudes Towards the Effectiveness of Traffic Safety Measures: the Role of Prior Punishment Experiences

R. Markšaitytė, A. Endriulaitienė, L. Šeibokaitė, J. Slavinskienė, M. Sullman, R. Arlauskienė, T. Vadvilavičius, Vytautas Magnus University (Lithuania)

How to Make Public Transport System Safer During the Pandemic and After

A. Patlins, N. Kunicina, Riga Technical University (Latvia)

Evaluation of Methods for Passenger Counting in Public Transport

A. Patlins, N. Kunicina, Riga Technical University (Latvia), **O. Dariimaa, N. Oyun-Erdene**, National University of Mongolia (Mongolia)

Development of a Monitoring System to Reduce the Spread of COVID-19 Through the Public Transport system

A. Patlins, N. Kunicina, Riga Technical University (Latvia), **O. Dariimaa, N. Oyun-Erdene**, National University of Mongolia (Mongolia)

Improvement of Customs and Logistics Services in Ukraine

I. Lebid, N. Luzhanska, National Transport University, **O. Mazurenko, A. Kudriashov**, Dnipro National University of Railway Transport named after academician V. Lazaryana (Ukraine), **I. Kravchenya**, Belarusian State University of Transport (Belarus)

Setting Dynamic Problem of Logistic Support of Building Objects by Material Resources Taking into Account Random Factors Affecting Transportation Timing

I. Arutiunian, M. Kovalenko, Zaporizhzhia National University, **A. Radkevich**, Dnipro National University of Railway Transport named after academician V. Lazaryana (Ukraine), **V. Kuznetsov, M. Skrzyniarz**, Railway Research Institute (Poland)

Prospects of Intermodal Transportation and Logistics Channels Development for Georgia

G. Zoidze, G. Tkhilashvili, Batumi State Maritime Academy (Georgia)

Moisture Content Control in Heavy Fuel During the Process of Emulsification with a Help of Capacitive Sensors

O. Zabolotnyi, National Aerospace University "Kharkiv Aviation Institute" (Ukraine)

Model of Competitiveness Formation of Railway Enterprises in the Conditions of Market Liberalization

Y. Krykavskyy, **L. Bolibrukh**, **N. Vasylytsiv**, National Aerospace University "Kharkiv Aviation Institute" (Ukraine),
S. Nycz-Wojtan, Vistula University Warsaw (Poland)

A Hybrid Method for Traffic Flow Forecasting Using Neural Networks and Window Method

V. Danchuk, National Transport University, **S. Taraban**, State Enterprise "State Road Transport Research Institute" (Ukraine)

How Can the Mobility Campaigning Help to Promote the Sustainable Mobility: Case from City of Zilina

Mikuláš Černý, **S. Kubařák**, **B. Poliaková**, **M. Gogolová**, University of Zilina (Slovak Republic)

The Cross-Regional Impact on the Transport Infrastructure of Small Town: the Case Study of Town Senec

M. Gogola, **S. Kubařák**, **M. Černý**, **J. Ondruš**, University of Zilina (Slovak Republic)

Smart City Approach in Logistics and Transport in the Czech Republic

T. Kučera, **M. Makovec**, University of Pardubice (Czech Republic)

Use of RFID Technology in the Logistic Process of Distribution with the Support of a Dynamic Simulation Software Tool

R. Hruška, **J. Chochořák**, **T. Kučera**, University of Pardubice (Czech Republic)

Infrastructural and Organizational Problems of Suburban Trams in Łódź after 1989

A. Soczówka, Railway Research Institute, **M. Pająk**, Lodz Metropolitan Rail (Poland)

Optimization of the Intersection with Regard to Safety in Mikulov

R. Dvoracek, **R. Pavelek**, **L. Janak**, **G. Tylova**, **K. Vichova**, Tomas Bata University in Zlín (Czech Republic)

Modelling of Unbound Base Layer Aggregate Shape and Structure by discrete numerical methods

V. Filotenkovas, **A. Vaitkus**, Vilnius Gediminas Technical University (Lithuania)

Methodology of Identification and Protection of Soft Targets of Transport Infrastructure – Initial Study

D. Kotkova, **M. Hromada**, **T. Sternova**, **K. Ljubymenko**, Tomas Bata University in Zlín (Czech Republic)