

Section

AUTOMOTIVE AND RAILWAY TRANSPORT

28th International Scientific Conference

**TRANSPORT
MEANS
2024**



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Session 1

Victoria Hotel Kaunas, Hall FOREST

3 October 2024, 9.00 – 16.00

Chairman – Prof. **S. Kilikevičius**

Co-Chairman – Prof. **V. Lukoševičius**

9.00 – 16.00	Session
10.30 – 11.00	Poster session (Hall 2-1)
11.00 – 11.20	Coffee Break (Hall 2-1)
13.00 – 14.00	Lunch (Hotel RESTAURANT)
15.30 – 15.50	Coffee Break (Hall 2-1)

Vibroacoustic Methods in Searching for Information about Means of Transport

R. Burdzik, Silesian University of Technology (Poland)

Extraction of Loading and Unloading Stiffnesses in 100% Overlap Frontal Crashes

S. Himmetoglu, A.Y. Sakarya, Hacettepe University (Turkey)

Correlation of Upper Neck Loading with Crash Pulse Characteristics in Rear Impacts

S. Himmetoglu, O.N. Acik, Hacettepe University (Turkey)

Calculation of Stability Conditions of a Skidder for Specific Operational Modes

J. Dižo, M. Blatnický, D. Barta, University of Žilina (Slovak Republic), **S. Semenov, E. Mikhailov, S. Kliuiev**, Volodymyr Dahl East Ukrainian National University (Ukraine)

Selected Aspects of Fuel Consumption of Personal Cars in Everyday Use

K. Witaszek, Silesian University of Technology (Poland)

Efficiencies of a Fuel Cell Electric Vehicle Powertrain in Various Road Conditions

M. Noga, M. Kołodziej, Cracow University of Technology (Poland)

Hydrogen and Ethanol Co-combustion in a SI engine for CO2 emission reduction

M. Noga, T. Moskal, Cracow University of Technology (Poland)

Analysis of Ampacity of Contact Lines Depending on Design Properties and Operating Conditions

V. Kuznetsov, P. Hubsyki, A. Rojek, Railway Research Institute (Poland)

Simulation of the Traction Power Supply System in Regeneration Mode

V. Kuznetsov, P. Hubsyki, A. Rojek, R. Barcikowska, Railway Research Institute (Poland)

A Mathematical Model of a Passenger Rail Vehicle While Vertical Oscillation

J. Dižo, A. Lovska, M. Blatnický, V. Ishchuk, University of Žilina (Slovak Republic)

A Feasibility Study into the Use of Corrugated Beams in the Passenger Car Frame

A. Lovska, J. Gerlici, J. Dizo, University of Žilina (Slovak Republic), **M. Pavliuchenkov**, Ukrainian State University of Railway Transport (Ukraine)

Assessment of Dynamic Properties of Two Different Designs of Freight Wagon Bogies

V. Ishchuk, J. Dižo, A. Lovska, M. Blatnický, University of Žilina (Slovak Republic)