

AUTOMOTIVE AND RAILWAY TRANSPORT

27th International Scientific Conference

**TRANSPORT
MEANS
2023**



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Session 1

Hotel Gabija, Hall SEA

5 October 2023, 9.00 – 13.30

Chairman – Dr. **S. Japertas**

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

9.00 – 13.30	Session
11.00 – 11.20	Coffee Break
13.30 – 14.30	Lunch (Hotel RESTAURANT)

Increasing Safety at Level Crossings: Hazards Identification and Risk Assessment to Optimize Preventive Actions Implementation

C. Marinacci, S. Ricci, Sapienza University of Rome (Italy)

Peculiarities of Determining the Optimal Parameters of the Plates Forming the Walls of a Universal Container

G. Vatulia, M. Beketov National University of Urban Economy (Ukraine), **J. Gerlici, A. Lovska**, University of Zilina (Slovak Republic), **D. Skurikhin**, Ukrainian State University of Railway Transport, **Ye. Krasnokutskyi**, Branch “Scientific Research and Design Technological Institute of Railway Transport”, Joint stock company “Ukrainian railway” (Ukraine), **J. Harušinec, P. Šťastniak**, University of Zilina (Slovak Republic)

The Strength of the Open Wagon Body when Transporting Containers

J. Gerlici, University of Zilina (Slovak Republic), **G. Vatulia**, M. Beketov National University of Urban Economy (Ukraine), **A. Lovska**, University of Zilina (Slovak Republic), **D. Skurikhin**, Ukrainian State University of Railway Transport (Ukraine), **J. Harušinec, A. Suchánek, V. Ishchuk**, University of Zilina (Slovak Republic)

The Methods to Increase the Use of Renewable Energy Sources in Railways

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

Simulation of Railway Power Supply Systems Based on Siemens Sitrans Sidytrac

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

Analysis of Wheelset Defects, Research of Freight Wagons Wheel Rolling Surface

V. Ivanovs, P. Gavrilovs, Riga Technical University (Latvia)

Estimation of Occupant Compartment Intrusion in Full-Width Rigid Barrier Impacts

S. Himmetoglu, Hacettepe University (Turkey)

The Effect of Seatback Angle on Whiplash Risk in Rear-end Collisions

S. Himmetoglu, Hacettepe University (Turkey)

Assessment of the Suitability of a Hydraulic Arm for a Smaller Category Skidder

J. Dižo, M. Blatnický, V. Ishchuk, D. Molnár, University of Zilina (Slovak Republic), **R. Melnik**, Lomza State University of Applied Sciences, **S. Koziak**, Warsaw University of Technology (Poland)

On the Development of Electric Vehicles for the Tourism Industry

R. Zaripov, Torighyrov University (Kazakhstan), **P. Gavrilovs**, Riga Technical University (Latvia), **R. Mukanov, N. Sembaev, E. Otarbaev**, Torighyrov University (Kazakhstan)

Analysis of a Vehicle Body Pitch under Braking

M. Blatnický, J. Dižo, D. Molnár, V. Ishchuk, University of Zilina (Slovak Republic)

Structural Design of a Small Three-wheeled Vehicle for the Transport of Bulk Materials

D. Barta, V. Ishchuk, D. Molnár, J. Dižo, University of Zilina (Slovak Republic)

Design of the Brake Unit of a Three-wheeled Vehicle for the Transport of Bulk Material

D. Molnár, M. Blatnický, V. Ishchuk, D. Barta, University of Zilina (Slovak Republic)

Introduction of a Car Seat with Robust Performance against Whiplash in Rear Impacts

S. Himmetoglu, Hacettepe University (Turkey)

An Evaluation of Front and Rear Seat Safety: Improvements and Critical Points

S. Himmetoglu, Hacettepe University (Turkey)