

AUTOMOTIVE AND RAILWAY TRANSPORT

29th International Scientific Conference
**TRANSPORT
MEANS
2025**



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Session 1

Victoria Hotel Klaipėda Conference Center, Hall TUMA

2 October 2025, 9.00 – 15.30

Chairman – Prof. **S. Kilikevičius**

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

9.00 – 15.30	Session (Hall Tuma)
10.40 – 11.00	Poster session (Conference Center lobby)
10.40 – 11.00	Coffee Break (Conference Center lobby)
12.30 – 13.30	Lunch (Hotel Restaurant)
from 15.00	Coffee Break (Conference Center lobby)
15.45 – 18.00	Boat Trip in Klaipėda Port (we will leave from the hotel lobby at 15.45) We ask the participants to be prepared with warm clothing and rain protection as excursion will take place outdoors!

Effects of Track Access Charges Mechanisms and Performance Regimes on Generation and Propagation of Trains' Delays

P. Asmari, S. Ricci, Sapienza Università di Roma (Italy)

Automatically Adjustable Head Restraint for Rear Seats

S. Himmetoglu, Ç.O. Çimen, F. Durdu, N. Gültekin, Ö.C. Ülger, Hacettepe University (Turkey)

Influence of Rear Impact Crash Pulses on Neck Loading of Occupants Sitting in Rear Seats

S. Himmetoglu, Hacettepe University (Turkey)

Pantograph Contact Force: Regulations, Standards and Measurement Methods

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

Simulation-Based Analysis of the Traction Power Supply System: Katowice Railway Transportation Hub Case

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

Study of Diversity of Metropolitan Parameters

G. Vaičiūnas, J. Matijošius, VILNIUS TECH (Lithuania)

The Influence of the Initial Coolant Temperature on the Pollutant Concentration Curve During the Cold Start Phase of a Spark-ignition Engine

M. Zimakowska-Laskowska, Motor Transport Institute (Poland), **E. Kozłowski**, Lublin University of Technology (Poland), **P. Wiśniowski**, Motor Transport Institute (Poland), **J. Matijošius, A. Rimkus**, VILNIUS TECH (Lithuania)

Safety of Electric Vehicles

Z. Krobot, B. Knappek, University of Defence (Czech Republic)

Introduction of a New Approach of Evaluating the Trafficability by Telescopic Penetrometer

K. Cibulova, University of Defence, **M. Priesner**, 153 Engineer Batalion, 15 Engineer Regiment (Czech Republic)

Validation of a Multi-Body Human Model against Volunteer Response to Rear Impact in Leaning Forward Posture

S. Himmetoglu, Hacettepe University (Turkey)

Autonomous Electric SUVs: A Survey Study Presenting a Critical Review on the Future Trends in Transportation

S. Himmetoglu, A.B. Demirtas, G.A. Soyleyici, H. Akbal, Hacettepe University (Turkey)

Research into Potential Directions for Improving the Energy Efficiency of Power Units in Used Hybrid Vehicles

D. Trifonov, O. Syrota, Y. Shuba, M. Romanenko, M. Babych, National Transport University (Ukraine), **J. Matijošius**, VILNIUS TECH (Lithuania)

Evaluation of Non-linearity in Flow Characteristics of the Low-pressure Gas-phase Injectors

D. Szpica, W. Murawski, Bialystok University of Technology (Poland)