

Join the Session via Zoom

Session 4

Virtual presentations

4 October 2024, 9.00 – 15.00

Chairman – Prof. S. Kilikevičius

Co-Chairman – Prof. V. Lukoševičius

9.00 — 16.00	Session
11.00 — 11.20	Coffee Break
13.00 - 13.30	Coffee Break

Computational Evaluation of the Influence of the Control Piston Bore Throughput on the Differential Action of a Pneumatic Brake Valve

M. Kisiel, D. Szpica, Bialystok University of Technology (Poland)

Research of the Impact of Automotive Transport on the Environment

T. Rusakova, K. Rusakova, Ukrainian State University of Science and Technologies (Ukraine)

Tracing of Highways Using the Maximum Radius Method

I. Musiienko, Ukrainian State University of Science and Technologies (Ukraine)

Features of the Enhancing Vehicle Operability through Downtime Reduction and Spare Parts Optimization

I. Gritsuk, Kherson State Maritime Academy, V. Volkov, Kharkiv National Automobile and Highway University, R. Symonenko, State Road Transport Research Institute, V. Verbovskyi, The Gas Institute, Ukrainian Academy of Science of Ukraine, O. Holovashchenko, A. Navrotskyi, National Transport University (Ukraine)

Formation of a Methodology for Increasing the Stability of Movement of Caterpillar Tractors for Energy-intense Agricultural Technologies

- **S. Lebedev**, State Scientific Organization "Leonid Pogorilyy Ukrainian Scientific Research Institute of Forecasting and Testing of Machinery and Technologies for Agricultural Production", **A. Lebedev, M. Shuliak,** Sumy National Agrarian University,
- **S. Khalin,** State Scientific Organization "Leonid Pogorilyy Ukrainian Scientific Research Institute of Forecasting and Testing of Machinery and Technologies for Agricultural Production", **S. Sokolik, A. Podliesnyi, V. Pogulyai,** Sumy National Agrarian University (Ukraine)

Analysis of Electromobility and Euro 7 Emission Standard

<u>Z. Krobot</u>, University of Defence (Czech Republic) **B. Kopilakova**, A. Dubcek University of Trencin (Slovak Republic), **P. Stodola**, **J. Stodola**, University of Defence (Czech Republic)

Focused on the Future: Competence 4.0 Project for the Automotive Industry

<u>A. Svasta</u>, University of Defence (Czech Republic) **B. Kopilakova**, A. Dubcek University of Trencin (Slovak Republic), **P. Stodola**, **J. Stodola**, University of Defence (Czech Republic)

How to Assess the Operation of Terminal Stations: Integration of Morphological Analysis and Simulation G. Malavasi, S. Ricci, L. Rizzetto, Sapienza University of Rome (Italy)

Train Based System for Wheelsets' Angle of Attack Measurement - Laboratory Verification of Sensor Characteristics J. Kalivoda, P. Bauer, M. Novák, Z. Novák, Czech Technical University in Prague (Czech Republic)

Selection of Optimal Lithium Battery Technology for Backup Power Supply of Automatics Systems in Railway Transport

<u>S. Buriak</u>, O. Gololobova, T. Serdiuk, Ukrainian State University of Science and Technologies, O. Voznyak, Lviv Polytechnic National University, O. Yehorov, Ukrainian State University of Science and Technologies, I. Manachyn, Ukrainian State University of Science and Technologies, Iron and Steel Institute of Z. I. Necrasov of NAS of Ukraine, K. Radzikhovskyi, Ukrainian State University of Science and Technologies (Ukraine)

Research on the Effective Level of Customs Protection Using Blockchain Technologies in Railway Transport (Case Study of Ukraine)

<u>O. Khodakivskyi</u>, **T. Butko, Ye. Khodakivska, P. Dolgopolov, D. Konstantinov, Ye. Bondarenko,** Ukrainian State University of Railway Transport (Ukraine)

Problems of Automation of Cut Rolling Speed Adjustment

V. Moiseenko, O. Golovko, Ukrainian State University of Railway Transport (Ukraine), M. Mezitis, Transport Academy, Riga, (Latvia), S. Matviienko, Ukrainian State University of Railway Transport (Ukraine)

The Competitiveness of the Tailway Services Against Passenger Cars in the Visegrad Group Countries A. Massel, A. Soczówka, Railway Research Institute (Poland)

Power Quality of the Transformer Circuits Supplying the Railroad Electric DC Traction Substation

J. Wojciechowski, G. Krawczyk, M. Wójcik, Casimir Pulaski Radom University (Poland)

Impact of Railroad DC Traction Substation Operation on Power Quality Parameters of the Electric Power Supply System

J. Wojciechowski, G. Krawczyk, Casimir Pulaski Radom University (Poland)

Acceleration Determination and Battery Charge Irregularities of an Electric Vehicle

<u>U. K. Medževeprytė</u>, KTU (Lithuania), **A. Borawski, D. Szpica, G. Mieczkowski,** Bialystok University of Technology (Poland)

Theoretical Research of Hybrid Car Efficiency

D. Juodvalkis, Lietuvos inzinerijos kolegija Higher Education Institution (Lithuania)

Research of Electric Vehicle HV Battery Charging Power in Real Conditions

D. Juodvalkis, KTU, Lietuvos inzinerijos kolegija Higher Education Institution (Lithuania)