

Section

AVIATION AND DEFENCE TECHNOLOGIES

29th International Scientific Conference

**TRANSPORT
MEANS
2025**



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Session 7

Online presentations

3 October 2025, 9.00 – 15.00

Chairman – Dr. **M. Lendraitis**

Co-Chairman – Dr. **J. Patašius**

9.00 – 15.00	Session
11.00 – 11.20	Coffee Break
13.00 – 13.30	Coffee Break

Explicit Dynamic Finite-Element Modelling of High-Velocity Ballistic Impact on Carbon-Fiber Composite Armor Plates: Ply-Orientation Optimization for Ballistic Resistance

M. Klimas, V. Lukoševičius, S. Kilikevičius, Kaunas University of Technology (Lithuania)

Integrated Monitoring of Railway Overhead Lines and Autonomous Aerial Threat Detection

D. Bosvi, O. Sablin, I. Potapchuk, V. Mazorchuk, Ukrainian State University of Science and Technologies (Ukraine)

Optimizing Airport Passenger Handling through Simulation

K. Kováčiková, A. Novák, A. Novák Sedláčková, M. Kováčiková, University of Žilina (Slovak Republic)

The Impact of Digitalization on Employment in Air Transport: A Sectoral Analysis

A. Novák, **K. Kováčiková**, University of Žilina (Slovak Republic), **T. Lusiak**, Lublin University of Technology (Poland), **A. Novák Sedláčková**, University of Žilina (Slovak Republic)

Modeling of Thermal Regime in the Main Fairing of a Launch Vehicle

M. Biliaiev, V. Biliaieva, O. Berlov, V. A. Kozachyna, V. V. Kozachyna, P. Semenenko, Ukrainian State University of Science and Technologies (Ukraine)

Outputs from Optimization of Service Maintenance Intervals

V. Konečný, University of Defence (Czech Republic)

Internal Combustion Engine Conversion

V. Konečný, University of Defence (Czech Republic) **B. Kopilakova**, A. Dubcek University of Trencin (Slovak Republic), **P. Stodola, J. Stodola**, University of Defence (Czech Republic)

The Business Environment for UAV Industry Evolution: A USA–China Perspective

V. Trasberg, Estonian Aviation Academy (Estonia)

Using Fourier Transform Infrared Spectroscopy to Detect the Presence of Soot in Motor Oils

V.T. Nguyen, J. Furch, University of Defence (Czech Republic)

Barrier Systems for Safeguarding Buildings from Vehicle Attacks

P. Dvořák, E. Zezulová, University of Defence (Czech Republic)