

# AVIATION AND DEFENCE TECHNOLOGIES

28<sup>th</sup> International Scientific Conference  
**TRANSPORT  
MEANS  
2024**



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## Session 3

Hall 3-2, VICTORIA Hotel Kaunas

3 October 2024, 9.00 – 13.00

Chairman – **M. Lendraitis**

Co-Chairman – **A. Survila**

9.00 – 13.00	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)

### *Structural Assessment Based on Computational Models and Digital Twin Technologies*

**J. Duarte**, University of Aveiro, **J. Ribeiro**, **P.M.S.T. de Castro**, University of Porto, **S.M.O. Tavares**, University of Aveiro, LASI - Intelligent Systems Associate Laboratory (Portugal)

### *Analytical-Numerical Proprotor Performance Envelope Analysis: Exploring Collective Pitch and RPM Sweeps Across Varying Flight Conditions*

**C. Sosa Henríquez**, **S. Kilikevičius**, KTU (Lithuania)

### *The Use of Portable Tribodiagnostic Equipment to Determine the Technical Condition of an Internal Combustion Engine within the Life Cycle*

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

### *Battery Development and Charging of Electric Vehicles*

**B. Knápek**, **J. Furch**, **Z. Krobot**, University of Defence (Czech Republic)

*Risk Management*

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

*The Use of Building Elements in the Design and Construction of the Military Base Protective Perimeter in a Foreign Operation*

**D. Coufal**, University of Defence (Czech Republic)

*Suitable Methods for the Assessment of Runway Surface Macrotecture by Airport Service Personnel*

**J. Vomela**, **P. Kalvoda, D. Kříž**, University of Defence (Czech Republic)

*Dangerous Phenomena at the Airports of Slovakia during the Progress of Atmospheric Fronts*

**M. Jarošová**, University of Zilina (Slovak Republic)

*Computational Analysis of the Aerodynamic Characteristics of a Slender Missile*

**M. Klimas**, **S. Kilikevičius**, KTU (Lithuania)