

## Aviation and Defence Technologies

Chairman – Prof. **A. Fedaravičius**

Co-Chairman – **M. Lendraitis**

Co-Chairwoman – **S. Kvietkaitė**

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10.00 – 15.00	Session
12.00 – 12.15	Coffee Break

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### *Analysis of Temperature Field in the Transport Compartment of the Launch Vehicle*

**M. Biliaiev**, Ukrainian State University of Science and Technology, **T. Rusakova**, **V. Biliaieva**, Oles Honchar Dnipro National University, **V. Kozachyna**, Ukrainian State University of Science and Technology, **O. Berlov**, Prydniprovsk State Academy of Civil Engineering and Architecture, **P. Semenenko**, State Enterprise Design Bureau “Southern” to them. M.K. Yangel (Ukraine)

### *Prospects for Increasing the Flight Network in the Ukrainian Aviation Market in the Context of the COVID-19 Pandemic in the Context of the Agreement on a Common Aviation Area*

**A. Slobodianyuk**, National Aviation University (Ukraine), **G. Abuselidze**, Batumi Shota Rustaveli State University (Georgia)

### *Thermodynamic Analysis of the Conversion of the Auxiliary Power unit AI-9 to a Turboprop Engine*

**K. Šajbanová**, **J. Čerňan**, **F. Škultéty**, **M. Dendisová**, University of Žilina (Slovak Republic)

### *Accident Rate of Different Types of Gliders in the Czech Republic*

**D. Hůlek**, **M. Novák**, **D. Řeha**, **V. Němec**, University of Pardubice (Czech Republic)

### *Working Drones in a Modern Airport's Daily Life*

**B. Békési**, **L. Szilvássy**, **G. Major**, **L. Gajdács**, **K. Jámbo**r, University of Public Service (Hungary)

### *Importance of Paved Operating Areas for General Aviation Aircrafts in the Czech Republic*

**M. Kameník**, **I. Kameniková**, **L. Capoušek**, Czech Technical University in Prague (Czech Republic)

### *Evaluation of the Possibility of Adopting Existing Construction for Purposes of Design an Unmanned Ground Vehicle*

**A. Švásta**, **J. Furch**, University of Defence in Brno (Czech Republic)

### *Diagnostic Tools and Internal Network Architecture of Nowadays Special and Combat Vehicles Operated within the Army of the Czech Republic*

**Z. Krobot**, **A. Švásta**, **V. Neumann**, University of Defence in Brno (Czech Republic)

### *The Effect of on/off Cycling on the Lifetime of a Light-Emitting Diode Used in a Military Vehicle Design*

**A.D. Hoang**, **Z. Vintr**, **D. Valis**, **Q.T. La**, University of Defence in Brno (Czech Republic)

### *Simulation of the L-159 Alca Conducting Anti-Surface Air Operations in Support of a Battalion Task Group*

**Z. Korecki**, **T. Hoika**, University of Defence in Brno (Czech Republic)

### *Fault Tree in Risk Analysis*

**Z. Krobot**, University of Defence in Brno (Czech Republic), **A. Breznicka**, Alexander Dubcek University of Trencin (Slovak Republic), **P. Stodola**, **J. Stodola**, University of Defence in Brno (Czech Republic)

### *Selected Risk Analysis Tools*

**V. Konecny**, University of Defence in Brno (Czech Republic), **A. Breznicka**, Alexander Dubcek University of Trencin (Slovak Republic), **M. Cervený**, **P. Stodola**, **J. Stodola**, University of Defence in Brno (Czech Republic)

### *Artificial Intelligence and its Use in Aviation*

**A. Novák**, **D. Bendík**, University of Žilina (Slovak Republic), **T. Lusiak**, Lublin University of Technology (Poland)

### *Women as Pearls of Air Transport*

**A. Novák-Sedláčková**, **T. Remencová**, **J. Nedvídková**, University of Žilina (Slovak Republic)

*Evaluation of Major EU27 Airports in Terms of their Green Connectivity*

**F. Škultéty, D. Beňová, M. Janovec**, University of Žilina (Slovak Republic)

*Smart Airports and Smart Cities - The Interconnection Concept*

**P. Vittek, T. Dvořáková, S. Stojić, P. Had**, Czech Technical University in Prague (Czech Republic)

*Post-Stall Correction for Vortex Lattice Method*

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