

TECHNICAL UNIVERSITY OF KOŠICE

Faculty of Aeronautics



**NEW TRENDS IN AVIATION DEVELOPMENT
2025**

20th INTERNATIONAL SCIENTIFIC CONFERENCE

High Tatras - Starý Smokovec, Slovakia

General Partner



The Letové prevádzkové služby Slovenskej republiky štátny podnik (LPS SR, š. p.), a state enterprise, is a provider of Air Traffic Services.

The mission of Letové prevádzkové služby Slovenskej republiky štátny podnik, a state enterprise, is the provision of air navigation services in airspace and on assigned aerodromes of the Slovak Republic.

Every passenger on scheduled or charter flight over the territory of the Slovak Republic is an indirect client of Letové prevádzkové služby Slovenskej republiky štátny podnik (LPS SR), a state enterprise. Air traffic controllers control flights of aircraft over flying, departing and landing to/ from an airport or taxiing on the ground. The basic goal of LPS SR is to prevent collisions of aircraft in the air and on the ground, to maintain safe and well-organized air traffic flow and to provide advice and information necessary for safe flight in airspace and on assigned aerodromes of the Slovak Republic. LPS SR managed to handle huge increase of traffic maintaining required level of safety and with minimum delays. The goal of LPS SR for the future is a further increase of the capacity of the airspace of the Slovak Republic and to minimize delays as much as possible while maintaining required level of safety.

LPS SR provides these services:

- Air Traffic Services
- Aeronautical Telecommunication Services
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- Consulting services
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NTAD 2025

NEW TRENDS IN AVIATION DEVELOPMENT

20th INTERNATIONAL SCIENTIFIC CONFERENCE

FINAL PROGRAMME

DAY 1 – 27.11.2025

08:30 – 09:00	Registration
09:00 – 09:20	Opening of the Conference
09:20 – 09:45	Plenary Session 1 ^A (Invited Talks)
09:45 – 10:00	Welcome Group Photo
10:00 – 10:15	Coffee Break
10:15 – 11:45	Plenary Session 2 ^A
11:45 – 13:00	Lunch break
13:00 – 14:30	Plenary Sessions 3 ^A , 3 ^B
14:30 – 14:45	Coffee Break
14:45 – 16:00	Plenary Session 4 ^A & Poster Session ^B
18:30 – 19:00	Gala Evening
19:00 – 22:00	Gala Dinner

DAY 2 – 28.11.2025

08:30 – 09:00	Registration
09:00 – 10:30	Plenary Sessions 5 ^A , 5 ^B
10:30 – 10:45	Coffee Break
10:45 – 12:15	Plenary Sessions 6 ^A , 6 ^B
12:15 – 14:00	Closing Ceremony and Lunch

Conference sessions marked with A will be held in Hoepfner Hall

Conference sessions marked with B will be held in Fridrich August Lounge



Foreword

On behalf of the organizing committee, it is my great pleasure to welcome you to New Trends in Aviation Development 2025 (NTAD 2025). This year's conference promises to be an engaging and insightful event, bringing together experts, researchers, and innovators from across the aviation community and beyond.

The program features a rich lineup of sessions and distinguished keynote speakers. We sincerely hope that you will find inspiration, forge new connections, and contribute to the meaningful discussions that will unfold over the next two days. Our goal is to foster collaboration, exchange ideas, and push the boundaries of knowledge and innovation in aviation.

I extend my deepest gratitude to all participants, sponsors, and volunteers whose dedication and effort have made this conference possible.

Thank you for being part of this important gathering. I wish you a rewarding and enriching experience at NTAD 2025.

Peter Korba
Conference Chair



Conference History

On 9–10 September 1993, on the occasion of the 20th anniversary of the establishment of the General Milan Rastislav Štefánik Air Force Academy in Košice (formerly known as the Slovak National Uprising Air Force Academy in Košice), the Academy organised its first international scientific conference under the title *“Training of Aviation Specialists for the 21st Century.”* The event focused on the training of aviation professionals for military aviation and was attended by representatives of European aviation faculties from Germany, France, England, Austria, Poland, Hungary, and the United States.

In 1996, during its second edition, the conference was renamed to *“The Aviation of the Future,”* and since its third edition in 1998, it has been known as *“New Trends in Aviation Development.”* Subsequently, the thematic scope of the conference was expanded to include topics such as civil aviation as well as aeronautical and space technology. This thematic expansion was also related to the merger of the Air Force Academy with the Technical University of Košice in 2004, followed by the establishment of the Faculty of Aeronautics of the Technical University of Košice in 2005. The subsequent editions of the conference, from 2006 onwards, have been organised by the Faculty of Aeronautics of the Technical University of Košice.

The conference gained in prestige through its inclusion in the citation databases SCOPUS (2018–2024) and Web of Science in the years 2018, 2020, and 2024.

Conference Chairs



Committees

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NTAD 2025 Secretary general

- Jarmila Lechová, Technical University of Košice, Slovakia



NTAD Programme – Day 1

27.11.2025 – Thursday

08:30 – 09:00 **Registration**

09:00 – 09:20 **Opening of the Conference** – Dean of the Faculty of
Aeronautics, Technical University of Košice – assoc. prof. Ing. P. Korba, PhD.

NTAD 2025 General Partner: LPS



09:20 – 09:45 **Plenary Session 1^A** – Session Chair – prof. Ing. R. Andoga, PhD.

Session 1^A Partner: Slovnaft



09:20 – 09:45 The development of the flying car – Š. Klein

09:45 – 10:00 **Welcome Group Photo**

10:00 – 10:15 **Coffee Break** – Partner: Hell Energy SK



10:15 – 11:45 **Plenary Session 2^A** – Session Chair – M.Eng. Ing. M. Košuda, PhD.

Session 2^A Partner: Skyeton



10:15 – 10:30 Testing of the Ultrasonic Range Finder of the Mobile Sensor Unit
in Windy Conditions – J. Novotňák, Z. Szőke, R. Bréda,
P. Gašparovič, E. Dolný

10:30 – 10:45 Towards the Technical Integration of Vestibular Training for
Pilots: Conceptual Design of a Multiaxial Flight Simulation System
for Vestibular Illusion Training – V. Socha, D. Urban, S. Kusmirek,
L. Hanakova, T. Havel, L. Socha

10:45 – 11:00 The Impact of Multi-frequency GNSS Receivers on the Reduction
of Ionospheric Error – A. Novák, T. Lusiak, J. Zýka, A. Novák
Sedláčková, S. D. Özdemirci



NTAD Programme – Day 1

27.11.2025 – Thursday

- 11:00 – 11:15 Optimizing VHF Antenna Placement on Aircraft: A Comparative Simulation Study – *M. Češkovič, N. Gecejová, M. Komjáty*
- 11:15 – 11:30 Attitude Synchronization and Position Consensus for a Multi-agent Autonomous System – *S. Kimathi, B. Beszédes, A. Benhamida*
- 11:30 – 11:45 Irradiance Forecast-supported Energy Management and Controlling – *P. Udvardy, G. Kánai, T. Jancsó, B. Beszédes*

11:45 – 13:00 Lunch Break

13:00 – 14:30 Plenary Session 3^A – Session Chair – doc. Ing. M. Češkovič, PhD.
Session 3^A Partner: DLA Piper



- 13:00 – 13:15 Comparison of Fundamental Sources for Creation of Legal Norms for Civil and State Aviation – *P. Kontriš, R. Klír*
- 13:15 – 13:30 Legal Challenges for Space Traffic Management: A Framework for Global Governance – *M. Košuda, M. Podmajersky, N. Kattan*
- 13:30 – 13:45 Cybersecurity Preparedness of Future Aviation Professionals: A Survey-Based Analysis – *L. Socha, V. Socha, P. Hanák, L. Hanáková, T. Havel*
- 13:45 – 14:00 Use of Polymer Material-PETG in Environments with Chemical De-Icing Agents – *P. Kalvoda, D. Demydenko*
- 14:00 – 14:15 Monitoring of Engine Instruments by Novice Pilots in Training during Instrument Rules Flights – *A. Novák, F. Chodelka*
- 14:15 – 14:30 Adaptive Pilot Monitoring: Unsupervised Artifact Detection and Atypical State Identification in Multimodal Physiological Signals – *F. Zolfaghari, O. Alharasees, A. Kilikevičius, U. Kale*



NTAD Programme – Day 1

27.11.2025 – Thursday

13:00 – 14:30 **Plenary Session 3^B** – Session Chair – Ing. Samer Al-Rabeei, PhD.

Session 3^B Partner: Transport & Logistic Management



- 13:00 – 13:15 Next-generation Infrastructure Diagnostics: UAV-based Thermal Imaging Approaches – M. Foryciarz, A. Tomaszewski, M. Ščerba, J. Kozuba, M. Marcisz, M. Urzędowski
- 13:15 – 13:30 Hydrogen in Aviation: A Comprehensive Analysis of Combustion and Fuel Cell Propulsion Systems for Decarbonized Flight – V. Szomosi, J. Šimčák, Z. Čonka, Z. Balogh
- 13:30 – 13:45 Geometric Motion-Based Approach to UAV Detection and Localization – R. Dianovský, P. Pecho, A. Novák, J. Rostáš
- 13:45 – 14:00 Design of a Material Transport Cart for a Factory in the Aviation Industry – S. Dubovský, V. Tymofiiv, S. Al-Rabeei, H. Pačaiová, M. Hovanec, M. Vencel
- 14:00 – 14:15 Utilization of Progressive Technologies for Aircraft Airframe Conceptualization – M. Jouvenat, S. Al-Rabeei, B. Rácek, M. Divok, M. Vencel
- 14:15 – 14:30 Postural Stability in Pilots Under Simulated Mild Hypoxia – L. Hanáková, B. Oniščenko, J. Weiss, V. Socha
- 14:30 – 14:45** **Coffee Break** – Partner: Hell Energy SK





NTAD Programme – Day 1

27.11.2025 – Thursday

14:45 – 16:00 **Plenary Session 4^A** – Session Chair – doc. Ing. Z. Čonka, PhD.
Session 4^A Partner: Košice International Airport



- 14:45 – 15:00 Simulation Model for Estimating Battery State of Charge –
M. Schrötter, L. Kovács, L. Főző, R. Andoga
- 15:00 – 15:15 The Impact of Conflict Situations on the Workload of Air Traffic
Controllers During Simulator Training – *J. Ulvr, O. Mach,*
V. Smrž, P. Michenka, T. Pecháček
- 15:15 – 15:30 Hazardous Energy Control in Maintenance Operations –
H. Pačaiová, R. Turisová, A. Šútňová, M. Hovanec, S. Vargová
- 15:30 – 15:45 Antenna Designs Simulation for Drone Based Communication
Relays – *I. Kabács, K. Károly*
- 15:45 – 16:00 The Challenges of Drone-supported Researches at the
University of Public Service Hungary – *T. Vas, M. Palik,*
M. Gajdos, Z. Dudás, K. Károly

14:45 – 16:00 **Poster Session^B** – Session Chair – prof. Ing. L. Főző, PhD.
Poster Session^B Partner: Heli Company



- The Dichotomy of the Skies: An Analysis of European UAS Integration, Regulatory Transposition, and Civil-Military Interoperability – *N. Kattan, M. Košuda, M. Kelemen, V. Polishchuk*
- Integrating PEAR-Based Human Factors Assessment with SEM-AHP for AI-Assisted UAV Operations – *O. Alharasees, F. Zolfaghari, A. Kilikevičius, U. Kale*
- Exploring the Present and Future of Africa's Air Travel Industry – *B. Mikula, E. Jenčová, I. Polishchuk*



NTAD Programme – Day 1

27.11.2025 – Thursday

- A Quantitative Analysis of the Legacy ATM Financial Model – M. Košuda, M. Stessl, M. Kelemen, N. Kattan
- Virtual Reality and Artificial Intelligence in Aviation Safety Training: A Comparative Review – S. Vargová, P. A. Skřehot, D. Charvátová, D. Tuček
- Exoskeletons in Aircraft Maintenance : Overview of Available Knowledge and Implementation Experience – D. Charvátová, S. Vargová, P.A. Skřehot, J. Sinay
- Air Traffic Control Room Design in the Context of Actual Operator Requirements – P. A. Skrehot, S. Vargova, D. Charvatova
- AetherLedger: A Novel Hierarchical Layer-2 Blockchain Architecture for Secure Satellite Communications – M. Podmajerský, M. Košuda, M. Kelemen, L. Főző
- Concept of the Obstacles Optical Detection System for the Aircraft and Unmanned Aerial Vehicles – N. Gecejová, M. Češkovič, P. Kurdel
- Multiview X-ray Systems at Regional Airports: Economic Feasibility – P. Koščák, Ľ. Szőkeová, M. Koščáková, M. Tirpáková
- Theoretical Background and Methodological Approaches for the Assessment of the Professional Workload of Air Traffic Controllers – J. Ulvr, J. Mazánek, T. Pecháček, V. Smrž, P. Engelová
- Environmental and Economic Analysis of Sustainable Aviation Fuels in the Context of Circular Economy: A Case Study – A. Tobisová, R. Rozenberg, A. Turac, M. Boháč

18:30 – 19:00 Gala Evening

19:00 – 22:00 Gala Dinner



NTAD Programme – Day 2

28.11.2025 – Friday

08:30 – 09:00 Registration

09:00 – 10:30 Plenary Session 5^A – Session Chair – doc. Ing. M. Antoško, PhD.

Session 5^A Partner: Vrgineers



09:00 – 09:15 In-orbit Experience from VZLUSAT-2 Mission: From Freely Rotating to Nadir Pointing CubeSat – *D. Hriadel, P. Svoboda Jerie, F. Rak, V. Dániel, R. László*

09:15 – 09:30 Accident Prediction Models and Human Factor Analysis in Aviation: A Systematic Review of Emerging Approaches – *S. Vargová, P. A. Skřehot, T. Zeman, J. Strohmandl*

09:30 – 09:45 Reducing ATCO Workload by Implementing FMC at LZTT – *Ľ. Nosál, B. Kandra*

09:45 – 10:00 Environmental and Economic Assessment of Aircraft Noise and Emissions in Flight Trajectory Optimization – *S. Číkovský, P. Šváb, P. Dzurovčin, P. Korba, N. Daneshjo*

10:00 – 10:15 Analysis of Changes in Predispositions and Skills for People Applying for a Commercial Pilot License – *M. Ščerba, J. Mendala, R. Wieszala, N. Daneshjo, J. M. Jusko, M. Foryciarz*

10:15 – 10:30 Software Solution for Assessing the Level of Practical Knowledge of Air Traffic Controller Students – *M. Kelemen, V. Polishchuk, I. Polishchuk, M. Kelemen, Jr., J. Jevčák, B. Mikula*

09:00 – 10:30 Plenary Session 5^B – Session Chair – Ing. E. Jenčová, PhD.

Session 5^B Partner: Tomark





NTAD Programme – Day 2

28.11.2025 – Friday

- 09:00 – 09:15 Military Aviation Regulations and their Interaction with Civil Aviation Regulations – *R.Klír, P. Kontriš*
- 09:15 – 09:30 Regulatory Framework of EASA, European Strategies, and Practical Applications of Artificial Intelligence in Aviation – *T. Gajdušková, E. Jenčová, A. Turac, D.Majorská, K.Hrešková, G. Galgóci*
- 09:30 – 09:45 Resilient Aviation Security: A Hybrid Approach Combining Facial and Appearance Recognition – *J. Jevčák, M. Kelemen Jr., J. M. Jusko*
- 09:45 – 10:00 Implementation of the GBAS System as a Prospect for Increasing the Accessibility of Regional Airports – *D. Majorská, P. Dzurovčin, P. Korba, R. Čatloš*
- 10:00 – 10:15 Analysis of the Difference in Production Parameters Between Low-Cost and High-Cost 3D Printers – *I. Koláriková, V. Tymofiiv, M. Hovanec, S. Al-Rabeei*
- 10:15 – 10:30 Innovative Approach to Non-Destructive Diagnostics of UAV Components Using Integrated Sensors – *J. Kessler, J.Novotňák, Z. Szőke, A. Polakovič*
- 10:30 – 10:45 **Coffee Break** – Partner: Hell Energy SK 
- 10:45 – 12:15 **Plenary Session 6^A** – Session Chair – Ing. M. Schrötter, PhD.
Session 6^A Partner: Syteli



- 10:45 – 11:00 Mapping the Evolution of Smart Airport Research: A Bibliometric Analysis – *K. Kováčiková, A.Novák, M. Kováčiková, R. Dianovský*



NTAD Programme – Day 2

28.11.2025 – Friday

- 11:00 – 11:15 Review of a Historical Timeline and Evolution of Sustainable Aviation Fuel Development – A. Yakovlieva, P. Kurdel, R. Andoga, S. Boichenko, M. Češkovič, N. Gecejova
- 11:15 – 11:30 Validating Sustainable Atmospheric Profiling for Future Unmanned Aerial Systems Integration – A. SABÓ, M. Kupec, M. Grega
- 11:30 – 11:45 Field Testing the AeroCloud System for Aeronautical Meteorology: A Case Study from Presov Airport – L. Choma, M. Kelemen, L. Ivica, I. Polyshchuk, K. Ozdincova
- 11:45 – 12:00 Task Balancing of Private Pilot Training Programs – J. Juracka, Z. Hubnerova, J. Hammer
- 12:00 – 12:15 Agile Combat Support – Second-Level Logistic Support of Air Forces – P. Davidová, Z. Korecki, T. Hoika

10:45 – 12:15 Plenary Session 6^B – Session Chair – M. Koščáková, MA, PhD.
Session 6^B Partner: Truck filter CZ



- 10:45 – 11:00 Tracking and Localization of an Acoustic Source in the Observed Area Using a Webcam – J. Galanda, M. Hovanec, S. Al-Rabeei, E. Jenčová, G. Feketi
- 11:00 – 11:15 A Systematic Methodology for Efficient Airport 5.0 Deployment – P. Šváb, S. Číkovský
- 11:15 – 11:30 Marketing Preferences for Paid versus Free Digital Platforms and AI-powered Tools in Aviation English Language Learning – R. Rozenberg, A. Čekanová, M. Šemančíková, D. Čekanová, M. Bugnová



NTAD Programme – Day 2

28.11.2025 – Friday

- 11:30 – 11:45 Portable 3D Scanning Technologies for Flight Ground Support:
A Literature Review – *D. Demydenko, L. Čičmanec, J. Bořil*
- 11:45 – 12:00 Conceptual Design of Microwire-Based Magnetic Sensors for
Space Applications – *A. Polakovič, K. Draganová, J. Kessler,
J. Novotňák*
- 12:00 – 12:15 Analysis of Security Check Load at Košice Airport – *P. Koščák,
K. Hrešková, M. Koščáková*
- 12:15 – 14:00 Closing Ceremony and Lunch**

End of the Conference

Workshop – Modern Technologies in Aviation Practice

You are cordially invited to attend the workshop *Modern Technologies in Aviation Practice*, which will take place in the Friedrich August Lounge on Thursday, 27 October 2025, from 10:15 to 11:45. This workshop aims to bring together professionals, researchers, and students interested in the latest technological developments shaping contemporary aviation. Participants will have the opportunity to engage in discussions, share insights, and gain deeper understanding of current challenges and future directions.

Thank you!

We look forward to seeing
you at NTAD 2026.

Conference partners

Silver partner



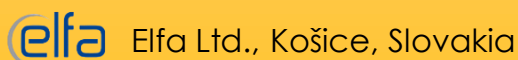
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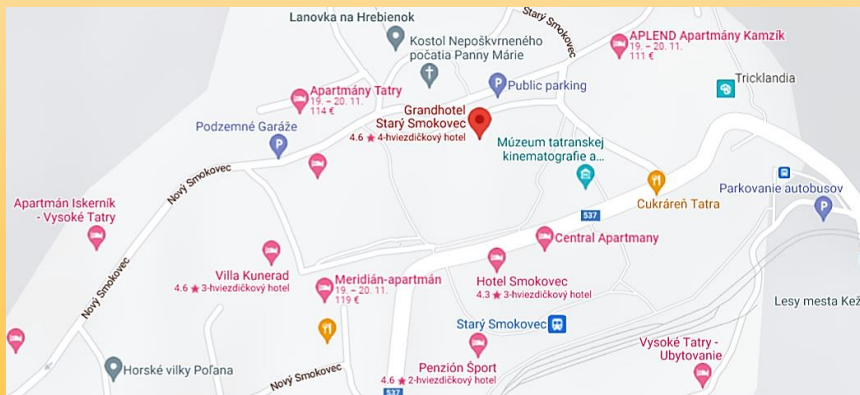
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Conference venue

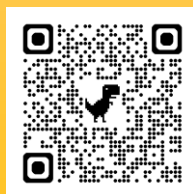
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Starý Smokovec – High Tatras

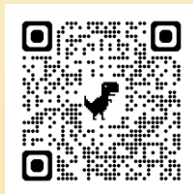


Where to go and what to do in the High Tatras?

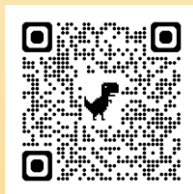




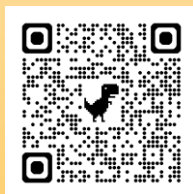
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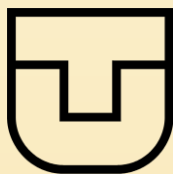


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