



NTAD 2025

New Trends in Aviation Development 2025

The XX. International Scientific Conference
High Tatras – Starý Smokovec
27 – 28 November, 2025

NTAD 2025 General chairs

Peter Mésároš, Technical University of Košice, Slovakia

Levente Kovács, Óbuda University, Budapest, Hungary

Peter Korba, Technical University of Košice, Slovakia

NTAD 2025 Honorary committee

Pavol Hudák, Transport Authority, Slovakia

Miroslav Kelemen, Technical University of Košice, Slovakia

Vladimír Socha, Czech Technical University in Prague, Czech Republic

György Györök, Óbuda University, Budapest, Hungary

Miloslav Poliak, University of Žilina, Slovakia

Aurel Sabó, Armed Forces Academy of General Milan Rastislav Štefánik, Slovakia

Stanislav Šišulák, Academy of the Police Force in Bratislava

NTAD 2025 Technical program committee chairs

Rudolf Andoga, Technical University of Košice, Slovakia

Ladislav Fözö, Technical University of Košice, Slovakia

NTAD 2025 Technical program committee

František Adamčík, Technical University of Košice, Slovakia

Károly Beneda, Budapest University of Technology and Economics, Hungary

Aleš Bernatík, Technical University of Ostrava, Czech Republic

Róbert Bréda, Technical University of Košice, Slovakia

Martin Bugaj, University of Žilina, Slovakia

Marek Česko, Technical University of Košice, Slovakia

Naqibullah Daneshjo, University of Economics in Bratislava, Slovakia

Malgorzata Dobrowolska, Silesian University of Technology in Gliwice, Poland

Katarína Draganová, Technical University of Košice, Slovakia

Milan Džunda, Technical University of Košice, Slovakia

Beáta Gavurová, Charles University, Prague, Czech Republic

Laurian Gherman, Air Force Academy in Braşov, Romania

József Kopják, Óbuda University, Budapest, Hungary

Zuzana Hajduová, Technical University of Košice, Slovakia

Michal Hovanec, Technical University of Košice, Slovakia

Rudolf Jalovecký, University of Defense in Brno, Czech Republic

Péter Kádár, Óbuda University, Budapest, Hungary

Peter Kaľavský, Technical University of Košice, Slovakia

Peter Klamo, EUROPE's Rail States Representatives Group Member for the Slovak Republic

Jaroslav Kozuba, Silesian University of Technology in Gliwice, Poland

Peter Koščák, Technical University of Košice, Slovakia

Peter Krížik, Slovak Academy of Sciences, Slovakia

Pavol Kurdel, Technical University of Košice, Slovakia

Benedek Nagy, Eastern Mediterranean University, North Cyprus, Turkey

Pavel Nečas, Matej Bel University, Banská Bystrica, Slovakia

Andrej Novák, University of Žilina, Slovakia

Martin Nosko, Slovak Academy of Sciences, Slovakia

Michal Orinčák, Academy of the Police Force in Bratislava

Hana Pačaiová, Technical University of Košice, Slovakia

Vladimír Popardovský, Armed Forces Academy of General M. R. Štefánik, Slovakia

Róbert Rozenberg, Technical University of Košice, Slovakia

Petr Adolf Skřehot, ZUBOZ z.ú., Czech republic

Radovan Soušek, University of Pardubice, Czech Republic

Marta Stasila – Sieradzka, Silesian University of Technology in Katowice, Poland

Márta Takács, Óbuda University, Budapest, Hungary

Dušan Teichmann, Technical University of Ostrava, Czech Republic

Michal Turčaník, Armed Forces Academy of General M. R. Štefánik, Slovakia

Péter Udvardy, Óbuda University, Budapest, Hungary

Marek Vochozka, Institute of Technology and Business in Česká Budějovice, Czech Republic

Andreas Voigt, Deutsches Zentrum für Luft-und Raumfahrt

NTAD 2025 Organizing committee chairs

Edina Jenčová, Technical University of Košice, Slovakia

Martin Schrötter, Technical University of Košice, Slovakia

NTAD 2025 Organizing committee

Daniel Blaško, Academy of the Police Force in Bratislava

Jozef Galanda, Technical University of Košice, Slovakia

Natalia Gecejová, Technical University of Košice, Slovakia

Matúš Grega, Armed Forces Academy of General M. R. Štefánik, Slovakia

Jaroslav Kompan, Armed Forces Academy of General M. R. Štefánik, Slovakia

Marek Košuda, Technical University of Košice, Slovakia

Jozef Novotňák, Technical University of Košice, Slovakia

Martin Vencel, Technical University of Košice, Slovakia

NTAD 2025 Secretary general

Jarmila Lechová, Technical University of Košice, Slovakia

Topics include but not limited to:

Avionic systems: navigation systems, digital aircraft systems, aircraft communication systems, flight and engine control systems, on-board digital systems, electronic instrument systems, aircraft electrical systems, management of on-board systems, progressive avionic systems, human machine interfaces, advanced warning systems

Aircraft design and construction: CAD, CAM, CAX, CAE - technologies in aviation, progressive construction technologies, composite materials, advanced simulation methods, constructive design

Aerodynamics: computational fluid dynamics, aircraft stability, measurement of aerodynamic characteristics, progressive aerodynamic design and calculations

Air Traffic Management and Operations: air traffic control, air traffic flow management, aeronautical information services, piloting the aircraft, air navigation, aviation meteorology, human factor and performance, training and education

Air Transport Management: security management, environmental factors, logistic systems, progressive information systems

Aviation safety: modeling and simulation of safety systems, technical reliability analysis, virtual simulation technologies, safety legislation, certification process, human factor, safety risks, accidents' analysis

Aircraft propulsion systems: gas turbine engines, aviation piston engines, engine control systems, engine diagnostic systems, simulation and modeling, progressive materials in aviation engines, electric propulsion systems

Sensors: magnetic sensors, digital measurement equipment, MEMS Technologies, intelligent sensors, aerometric computers, inertial reference systems, analogue sensing techniques, hybrid sensors, sensor networks, sensors modeling

Unmanned aerial systems: modeling, control and diagnostics, virtual simulation, navigation, detection of UAV systems, UAV security, anti UAV systems, legislation processes, certification, swarming, propulsion, energy storage, commercial applications, ground control stations

Airport operations: airport management, airport economics and logistics, airport security, airport transportation systems, aircraft ground handling management, aircraft ground navigation, surface movement guidance and control systems

Space systems: CubeSats, propulsion systems, space navigation, orbital control, communication systems, safety and security of space vehicles, control systems, space applications

Submission of Papers

The working language of the conference is **English**. Prospective authors are invited to submit full papers.

Paper Acceptance

Each accepted paper has to be presented by one of the authors at the conference and must be accompanied with a registration fee. Accepted papers will be submitted for inclusion into **IEEE-Xplore Database, SCOPUS and WoS**.

<https://ntad.lf.tuke.sk/>

Full paper submission: September 10, 2025

Notification deadline: October 1, 2025

Final paper submission: October 22, 2025

Event Partner:

*Air Navigation Services Provider,
Transport Authority,
TLM Trans s.r.o.,
Slovak Training Academy,
TOMARK s.r.o.,
Vrginners, Inc.*

Organizer:

*Faculty of Aeronautics,
Technical University of Košice*