



NTAD 2019 General chairs

Stanislav Szabo, Technical University of Košice, Slovakia

Libor Švadlenka, University of Pardubice, Czech Republic

NTAD 2019 Honorary committee

Pavel Czarniecki, Warsaw Management University, Poland

Péter Kádár, Óbuda University, Budapest, Hungary

Miroslav Kelemen, Technical University of Kosice, Slovakia

Peter Korba, Technical University of Košice, Slovakia

Levente Kovács, Óbuda University, Budapest, Hungary

Jakub Kraus, Czech Technical University in Prague, Czech Republic

Vladimír Němec, University of Pardubice, Czech Republic

Jindřich Ploch, College of International and Public Relations Prague, Czech Republic

NTAD 2019 Technical program committee chairs

Ladislav Fózó, Technical University of Košice, Slovakia

Rudolf Andoga, Technical University of Košice, Slovakia

NTAD 2019 Technical program committee

Helena Beková, University of Pardubice, Czech Republic

Károly Beneda, Budapest University of Technology and Economics, Hungary

Aleš Bernatík, Technical University of Ostrava, Czech Republic

Josef Blažek, Technical University of Košice, Slovakia

Monika Blišťanová, Technical University of Košice, Slovakia

Endre Borbély, Óbuda University, Budapest, Hungary

Róbert Bréda, Technical University of Košice, Slovakia

Martin Bugaj, University of Žilina, Slovakia

Jan Chmelík, University of Pardubice, Czech Republic

Malgorzata Dobrowolska, Silesian University of Technology in Gliwice, Poland

Katarína Draganová, Technical University of Košice, Slovakia

Zdeněk Dvořák, University of Žilina, Slovakia

Milan Džunda, Technical University of Košice, Slovakia

Beáta Gavurová, Technical University of Košice, Slovakia

Laurian Gherman, Air Force Academy in Braşov, Romania

György Györök, Óbuda University, Budapest, Hungary

Míchal Hovaneč, Technical University of Košice, Slovakia

Jaroslava Hyršlová, University of Pardubice, Czech Republic

Bernadetta Izdoreczyk, Jagiellonian University, Krakow, Poland

Rudolf Jalovecký, University of Defense in Brno, Czech Republic

Artūras Keršys, Kaunas University of Technology, Lithuania

Robertas Keršys, Kaunas University of Technology, Lithuania

József Koppják, Óbuda University, Budapest, Hungary

Peter Koščák, Technical University of Košice, Slovakia

Pavol Kurdel, Technical University of Košice, Slovakia

Pavol Lipovský, 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

Zdeněk Pátek, National Center for Research, Development and Testing in Aerospace, Czech Republic

Petr Průša, University of Pardubice, Czech Republic

Róbert Rozenberg, Technical University of Košice, Slovakia

Karol Semrád, Technical University of Košice, Slovakia

Monika Skalská, University of Pardubice, Czech Republic

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

Radovan Soušek, University of Pardubice, Czech Republic

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

Márta Takács, Óbuda University, Budapest, Hungary

Dušan Teichmann, VSB - Technical University of Ostrava, Czech Republic

Robert Theiner, Czech Technical University in Prague, Czech Republic

František Vavera, General Directorate of Fire Rescue Service of CR, Czech Republic

Árpád Veress, Budapest University of Technology and Economics, Hungary

Norbert Werner, Eötvös Loránd University, Budapest, Hungary

NTAD 2019 Organizing committee chairs

Peter Čekan, Technical University of Košice, Slovakia

Radoslav Šulej, Technical University of Košice, Slovakia

NTAD 2019 Organizing committee

Daniel Blaško, Technical University of Kosice, Slovakia

Lenka Brumarová, Technical University of Ostrava, Czech Republic

Samuel Bucko, Technical University of Kosice, Slovakia

Marek Českovíč, Technical University of Kosice, Slovakia

Petr Daňko, University of Pardubice, Czech Republic

Jozef Galanda, Technical University of Košice, Slovakia

Štefan Fejedelem, Elfa, ltd., Slovakia

David Hülek, University of Pardubice, Czech Republic

Edina Jenčová, Technical University of Kosice, Slovakia

Marek Košuda, Technical University of Kosice, Slovakia

Tomáš Krejsa, University of Pardubice, Czech Republic

Dorota Liptáková, Technical University of Kosice, Slovakia

NTAD 2019

New Trends in Aviation Development 2019

The XIV. International Scientific Conference

Castle Karlova Koruna

26 – 27 September, 2019

Lucia Melníková, Technical University of Košice, Slovakia

Petr Mrázek, University of Pardubice, Czech Republic

Martin Novák, University of Pardubice, Czech Republic

David Řeha, University of Pardubice, Czech Republic

Martin Schrotter, Technical University of Košice, Slovakia

Stanislav Szabo jr., Technical University of Košice, Slovakia

Miroslav Šmelko, Technical University of Kosice, Slovakia

Martin Šustr, University of Pardubice, Czech Republic

Alica Tobisová, Technical University of Košice, Slovakia

Iveta Vajdová, Technical University of Košice, Slovakia

Victorie Zharkova, University of Pardubice, Czech Republic

NTAD 2019 Secretary general

Eva Endrizalová, University of Pardubice, Czech Republic

Edina Jenčová, Technical University of Kosice, Slovakia

Dorota Liptáková, Technical University of Kosice, Slovakia

Lucia Melníková, 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: cube-sats, 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: June 30, 2019

Notification deadline: July 31, 2019

Final paper submission: August 31, 2019

Event Partners: *Slovak Training Academy, Česká letecká servisní a.s., AeroJOB, s.r.o., Slovenská federácia ultra'ahkého lietania, European Air Services, s.r.o., Heli Company, s.r.o.*

Organizers: *Faculty of Aeronautics, Technical University of Košice, Slovakia
University of Pardubice, Czech Republic*

Technical co-sponsor: *IEEE Czechoslovakia Section*