

CONFERENCE PROGRAMME

New Trends in Civil Aviation 2020

23. November 2020



09:00 – 09:10	Jakub Kraus Conference opening
09:10 – 10:00	Václav Řehoř Prague Airport – Destination Driven Airport Opportunities & Challenges
10:00 – 10:50	Riccardo Patriarca Road to Resilience: Uncovering Hidden Functional Patterns in Aviation Safety Management
10:50 – 11:00	Break

Keynote
Speaker
Keynote
Speaker

Session I.

11:00 – 11:20	S. Pleninger, J. Hospodka, T. Pilmannová, T. Topková, P. Lukeš, J. Steiner, J. Kraus Jamming of GNSS Receiver on B737 MAX Aircraft and its Impact on ADS-B technology
11:20 – 11:40	P. Jonáš, M. Jančík, Š. Holoda, J. Bodart Impact of SUAS Equipped with ADS-B on 1090MHz Environment
11:40 – 12:00	P. Lukeš, T. Topková, T. Vlček, S. Pleninger Recognition of GNSS Jamming Patterns in ADS-B Data
12:00 – 12:20	J. Hannah, R. Mills, R. Dill Traffic Collision Avoidance System: Threat Actor Model and Attack Taxonomy
12:20 – 12:40	J. Nosek, T. Topková Automation of Aircraft Movements Recording at Prague Letňany Airport

12:40 – 14:00 Lunch Break

Session II.

14:00 – 14:20	N. Guskova, A. Lališ, K. Grötschelová Systemic Safety Data Collection and Processing in Aviation Maintenance
14:20 – 14:40	S. Stojić, L. Kurzweil, V. Řehoř Appropriateness of the Existing Airport Data Sources for Setting of the Safety Control Structure in SMS
14:40 – 15:00	K. Mündel, A. Lališ, O. Štumbauer Pneumatic System Reliability Assessment for B737NG Operators
15:00 – 15:20	J. Havlíček, A. Lališ, R. Vokáč Functional Resonance of the Airport Passengers Security Check
15:20 – 15:40	S. Kierszbaum, L. Lapasset Applying Distilled BERT for Question Answering on ASRS Reports
15:40 – 16:00	M. Splichal, J. Chlebek Benefit of New EASA Part M-Light



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DEPARTMENT OF AIR TRANSPORT



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Session III.

- 09:00 – 09:20 **V. Plos, J. Chlebek**
Effect of Air Operation Interruption on the Development of Reported Events
- 09:20 – 09:40 **F. Panayotov, V. Serbezov, I. Dobrev, M. Todorov**
PIV Investigation of UAV Rotor in Hover
- 09:40 – 10:00 **A. Kleczatský, Š. Hulínská, J. Kraus**
Procedures for Prevention of Unauthorized Incursion into UAS Geographical Zones
- 10:00 – 10:20 **M. Bugaj, A. Novák, A. Stelmach, T. Lusiak**
Unmanned Aerial Vehicles and Their Use for Aircraft Inspection
- 10:20 – 10:40 **P. Pecho, M. Jarošová, R. Dvorský, I. Škvareková, V. Ažaltovič**
Design of a Flight Instrument for Early Identification of Local Atmospheric Changes in the Operating Conditions of Glider
- 10:40 – 11:00 **I. Kameníková, T. Hejzlar**
Impacts of Neglecting Atmospheric Conditions on Aircraft Noise Monitoring
- 11:00 – 11:20 **Break**

Session IV.

- 11:20 – 11:40 **S. Kušmírek, V. Socha, L. Hanáková, K. Hylmar, R. Matyáš, P. Kubový**
Validation of the Manual Indoor UAV Flying Characteristics Methodology
- 11:40 – 12:00 **L. Hanáková, V. Socha, J. Bořil, L. Herman, J. Štrobl, T. Pilmannová**
Subjective Evaluation of Fatigue in Pilots During 24-hour Testing
- 12:00 – 12:20 **H. Bínová, K. Táboříková**
Research of the Employment in Air Transport in the Czech Republic
- 12:20 – 12:40 **V. Socha, S. Kušmírek, L. Hanáková, P. Olexa, J. Šimerka**
Portable Reaction Time Measurement Device: Prototype Proposal and Validation
- 12:40 – 13:00 **V. Socha, L. Karapetjan, J. Bořil, L. Hanáková, L. Socha, T. Havel**
Black Hole Approach: A Systematic Review
- 13:00 – 13:20 **L. Socha, M. Liptáková, P. Hanák, P. Čekan, J. Nosek, F. Priganc**
Stressful Situations in the Work of the Airport Dispatcher
- 13:20 **Closing words**

