Tuesday, June 24

7:45 — ***Buses depart Hotel International***

8:30 — **Welcome and Registration**

9:00 — **Welcome by Conference Chairs**
Dirk Schaefer, EUROCONTROL
Eric Neiderman, FAA

9:20 — **Welcome Speeches**
Martin Kučera, Prague Airport
Tânia Cardoso Simões, EUROCONTROL

9:45 — **Keynote 1**
"Digitalization and automatization in Prague Airport Operations"
Vladimir Kuran & Petr Had, Prague Airport

10:15 — **Coffee**

10:45

Integrated airport/airside operations I	**ATM performance measurement and management I**	**Autonomous, unmanned and remotely piloted aircraft systems and emerging operations I**
Session chair: Joe Post, University of South Florida	*Session chair: Jose Miguel De Pablo, CRIDA*	*Session chair: Ang Li, Hong Kong Polytechnic University*
81: Robust Management of Airport Security Queues Considering Passenger Non-compliance with Chance-Constrained Optimization *Mark Hansen, University of California, Berkeley*	5: Assessing Airport Surface Traffic Performance from Open Sources of Aviation Data *Xavier Olive, ONERA*	3: An Evaluation of UTM ConOps for Drone Deliveries: From Pre-Planned Air Corridors to Dynamic 4D Trajectories *Shuangxia Bai, City University of Hong Kong*
43: Speech-to-Route: Leveraging Large Language Models for Taxi Route Visualization *Phat Thai, Nanyang Technological University*	40: Traffic complexity measurement via collective dynamics analysis of arrival traffic patterns *Xuhao Gui, Nanjing University of Aeronautics and Astronautics*	23: Optimization-Guided Exploration of Advanced Air Mobility Congestion Management Strategies with Stochastic Demands *Max Li, University of Michigan*
53: Machine learning predictions of Target Off-Block Time and Turnaround Duration for all European A-CDM Airports *Paolino De Falco, EUROCONTROL*	19: Unlocking Runway Capacity: Enhancing Efficiency through Dynamic Pairwise Aircraft Wake Separation *Kam Hung Ng, The Hong Kong Polytechnic University*	30: A Concept for Procedural Terminal Area Airspace Integration of Large Uncrewed Aircraft Systems at Non-Towered Airports *Tim Felix Sievers, DLR & Jordan Sakakeeny, NASA Ames*

12:45 — **Lunch**

13:45

Doctoral paper session 1	**Doctoral paper session 2**	**Doctoral paper session 3**
Session chair: David Lovell, University of Maryland	*Session chair: Marc Bourgois, EUROCONTROL*	*Session chair: Yu Yu Zhang, University of South Florida*
Design of a hybrid-electric powertrain model for trajectory optimization Edgar Böttcher, TU Dresden	Multimodal Traffic Coordination for Safety Landings *Pavithra Sathya Kumar, University of the Bundeswehr, Munich, Germany*	Learning to Explain Air Traffic Situation *Hong-ah Chai, Korea Aerospace University*
Structural predictability of large-scale aircraft interaction networks *Raúl López-Martín, IFISC*	Spatial Analysis-Driven Facility Location Optimization for Vertiports *Elif Erkek, TU Dresden*	Modified Dijkstra's Algorithm for Search and Rescue Operations in Dynamic Wildfire Environments *Elia Ghisellini, ENAC*

14:45 — **Coffee**

15:15

Integrated airport/airside operations II	**ATM performance measurement and management II**	**Autonomous, unmanned and remotely piloted aircraft systems and emerging operations II**
Session chair: Dirk Kügler, DLR	*Session chair: Jose Miguel De Pablo, CRIDA*	*Session chair: tbd*
56: Chances and Pitfalls of the Point Merge Concept – A design Optimization Framework with a Case Study for Leipzig/Halle Airport on Noise, Capacity and Flight Efficiency *Hartmut Fricke, TU Dresden*	31: Exploring Airlines Scheduled Buffer Time Adjustment Strategies: An Analytical Approach *Ying Zhou, Nanyang Technological University*	32: Including intent in detect-and-avoid systems for remotely piloted aircraft systems *Sybert Stroeve, NLR*
28: A new method to compute more appropriate off-block times and taxiing paths for airport surface management *Bosheng Ba, Civil Aviation University of China*	87: Identification and Characterization for Disruptions in the U.S. National Airspace System (NAS) *Mark Hansen, University of California, Berkeley*	45: Development of Cooperative Operating Practices for Upper-Class E Traffic Management (ETM) *Paul Lee, NASA*
	7: Impacts of ADS-B In Approach Applications during Revenue Operations *Dan Howell, Regulus Group*	70: Vertiport Placement for Urban Air Mobility to Reduce Time for Multimodal Travel *Yashovardhan S. Chati, Tata Consultancy Services*

17:15 — **end of day 1**

17:30 — ***Buses depart Prague Airport***

19:00 — **Committee Dinner (Klášterní šenk, Markétská 1/28)**

Wednesday, June 25

6:00	**5k Fun Run**		
9:00	***Buses depart Hotel International***		
9:30	**Welcome coffee**		
10:00	**Safety, resilience, and security** *Session chair: Sybert Stroeve, NLR* 64: An MAC Probability Assessment Framework for Integrated Operations in Urban Air Mobility Considering Safety Barriers *Jinpeng Zhang, Beihang University* 90: Anomaly Detection of Aircraft on Final Approach to an Aerodrome with Temporal Fusion Transformers *Nidhal Bouaynaya, Rowan University*	**Air traffic flow management and optimization I** *Session chair: Daniel Delahaye, ENAC* 10: Efficient Real-Time Aircraft ETA Prediction via Feature Tokenization Transformer *Liping Huang, A*STAR* 41: Tactical Demand and Capacity Balancing with Uncertainty Using Incremental Path-Search based on Spatio-Temporal Graph *Yutong Chen, Nanyang Technological University* *65: Flight allocation in flight-centric air traffic control: A MILP model approach* *Andréas Guitart, ENAC*	**Weather, climate and energy efficiency I** *Session chair: Tom Reynolds, MIT Lincoln Laboratory* 6: Assessing Climate Impact of Contrails: Insights from Japan's High-Density Airspace and Meteorological Conditions *Katsuhiro Sekine, The University of Tokyo* 16: Recurrent Neural Network Based Quantile Predictions of Airport Capacity *Benjamin Tolley, MIT Lincoln Laboratory* 46: Recommending Traffic Management Initiatives in Non-Convective Weather *James Jones, MIT Lincoln Laboratory*
12:00	**Light Lunch**		
13:00		**Tutorial 1** **Reinforcement Learning for Air Traffic Control Applications with BlueSky-Gym** *Jan Groot, TU Delft*	**Tutorial 2** **Contrail-Modeling & Trajectory-Optimization for Climate-Smart Flight Operations using Python-based Open-Source Libraries** *Manuel Soler & Abolfazl Simorgh, UC3M*
14:30	**Refreshments**		
14:45	***Bus 1 departs Prague Airport***		
15:00	**Visit Prague Airport (optional)**		
17:15	***Bus 2 departs Prague Airport***		

Thursday, June 26

8:00	***Buses depart Hotel International***		
8:30	**Welcome coffee**		
9:00	**Panel 1: "Hey Siri, Which way should I vector this aircraft?"** *Moderator: Jtom Reynolds, MIT Lincoln Laboratory*		
10:30	**Coffee**		
11:00	**Automation, human factors, and decision support systems I** *Session chair: Jacco Hoekstra, TU Delft* 63: Ensuring UAS Airworthiness: Deep Learning-Based Acoustic Health Monitoring of Motor Health Prissha Chawla, *University of Cincinnati* 29: Do ATCOs Need Explanations, and Why? Towards ATCO-Centered Explainable AI for Conflict Resolution Advisories *Katherine Fennedy, Nanyang Technological University* 13: A Data-Driven Framework for Next-Day Traffic Forecasting at Small Airports with Multi-Scale Machine Learning *Zhuoxuan Cao, University of Maryland*	**Air traffic flow management and optimization II** *Session chair: Michael Schultz, University of the Bundeswehr Munich* 57: Shadow Evaluation of Real-Time Machine Learning Services in the Houston Airspace *William Jeremy Coupe, NASA* 60: Learning Network Flow Control Strategies from Miles-In-Trail Data *Nianxi Xie, Nanjing University of Aeronautics and Astronautics* *54: A machine learning model to aid in predicting flight trajectory sequencing delays near the arrival airport* *Danae Mitkas & Martin Durbin, FAA*	**Weather, climate and energy efficiency II** *Session chair: Tom Reynolds, MIT Lincoln Lab* 55: Probabilistic Risk-Aware Flight Trajectory Planning under Convective Weather *Wei Zhou, Technical University of Catalonia* 58: Weather Considerations for Airport Capacity Decision Support Development *Tom Reynolds, MIT Lincoln Laboratory* 75: Contrail, or not contrail, that is the question: the "feasibility" of climate-optimal routing *Junzi Sun, TU Delft*
13:00	Lunch		
14:00	**Tutorial 3** **Navigating the Skies through Hostile Environments: GNSS Interference Impact on Aviation** *Jakub Steiner & Jakub Trýb, Czech Technical University*	**Tutorial 4** **Customizing LLMs for ATM: Challenges and Opportunities** *Thinh Pham & Yash Guleria, NTU*	**Tutorial 5** **Can We Reproduce the "contrail | !contrail" Paper? A Step-by-Step Trajectory Optimization Tutorial with OpenAP, Traffic, and FastMeteo** *Junzi Sun, TU Delft*
15:30		**Coffee**	
16:00		**Doctoral paper session 4** *Session chair: Dirk Schaefer, EUROCONTROL* Optimisation of the North Atlantic Air Traffic Management to mitigate environmental impact *Nils Ahrenhold, DLR* Dynamic modeling of UAV trajectory prediction in an urban environment *Md Ashraful Islam, TU Dresden*	**Doctoral paper session 5** *Session chair: James Jones, MIT Lincoln Lab* Spatiotemporal Trajectory Planning for Multi-Aircraft Terminal Operations in UAM Considering Wake Effects and Dynamics *Di Lv, Tsinghua University* Generative Stress-Testing for Air Traffic Management Resilience *Sinan Abdulhak, University of Michigan*
17:00		**end of day 3**	
17:15	***Buses depart Prague Airport***		
18:45	Gala Dinner boat Anna Carolina 19.00 - 22.00 the cruise will start on pier No. 6 (under the Fairmont hotel) https://www.prague-boats.cz		

Friday, June 27

8:00	***Buses depart Hotel International***		
8:30	**Welcome coffee**		
9:00	**Automation, human factors, and decision support systems II** *Session chair: Cheryl Quinn, NASA* 67: Leveraging Retrieval-Augmented In-context Learning for Complex Air Traffic Scenario Generation *Yash Guleria, Nanyang Technological University* 88: Automating Terminal Airspace Vectoring: A Machine-Assisted Approach for Sequencing, Spacing and Merging of Arrival Flights *Lim Zhi Jun, Nanyang Technological University* 61: Adaptive Traffic-Following Scheme for Orderly Distributed Control of Multi-Vehicle Systems *Anahita Jain, The University of Texas at Austin*	**Air traffic flow management and optimization III** *Session chair: Hartmut Fricke, TU Dresden* 82: From En-Route to Touchdown: Uncertainty Analysis of Inbound Traffic Flows to Singapore Changi Airport *Daniel Lubig, TU Dresden* 85: A robust optimization approach for dynamic airspace configuration *Go Nam Lui, Lancaster University* 86: Predicting Reactionary Delays in a Hub-Spoke Network using Graph Attention Neural Networks *Constanca Veiga, TU Delft*	**4-D Trajectory planning, prediction, and management** *Session chair: Max Li, University of Michigan* 8: Stochastic Cruise Speed Control for Time-Based Metering Under Uncertainty *Yoshinori Matsuno, Japan Aerospace Exploration Agency* 9: Forecasting of Airline En Route Delay for Individual Flights with Supervised Learning *Marta Ribeiro, TU Delft* 69: Optimized Sequencing and Conflict-Free Path Planning for Arrival Flights during Runway Direction Changes *Hao Jiang, Nanyang Technological University*
11:00	Coffee		
11:30	**Panel 2: What really sucks about operations?** *Moderator: Joseph Post, University of South Florida*		
13:00	**Light Lunch**		
14:00	**Plenary Closing Session** **Best Paper Awards**		
15:00	End of Day 4		
15:15	***Buses depart Prague Airport***		
15:15	**ATR&D Symposium Committee Meeting (end 16:30)**		