Tuesday, June 24 2025

8:30	**Welcome and Registration**		
9:00	**Welcome by Conference Chairs** *Dirk Schaefer, EUROCONTROL* *Eric Neiderman, FAA*		
9:15	**Welcome by Prague Airport** **Welcome by xxx**		
9:45	**Keynote 1** **"Digitalization and automatization in Prague airport Operations"** *Tomas Vlacil, Prague Airport*		
10:15	**Coffee**		
10:45	**Integrated airport/airside operations I** *Session chair: Joe Post, University of South Florida* *81: Robust Management of Airport Security Queues Considering Passenger Non-compliance with Chance-Constrained Optimization* *Mark Hansen, University of California, Berkeley* 43: Speech-to-Route: Leveraging Large Language Models for Taxi Route Visualization *Phat Thai, Nanyang Technological University* 53: Machine learning predictions of Target Off-Block Time and Turnaround Duration for all European A-CDM Airports *Paolino De Falco, EUROCONTROL*	**ATM performance measurement and management I** *Session chair: Jose Miguel De Pablo, CRIDA* 5: Assessing Airport Surface Traffic Performance from Open Sources of Aviation Data *Xavier Olive, ONERA* 40: Traffic complexity measurement via collective dynamics analysis of arrival traffic patterns *Xuhao Gui, Nanjing University of Aeronautics and Astronautics* 19: Unlocking Runway Capacity: Enhancing Efficiency through Dynamic Pairwise Aircraft Wake Separation *Kam Hung Ng, The Hong Kong Polytechnic University*	**Autonomous, unmanned and remotely piloted aircraft systems and emerging operations I** *Session chair: Nicolas Durand, ENAC* 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* 23: Optimization-Guided Exploration of Advanced Air Mobility Congestion Management Strategies with Stochastic Demands *Max Li, University of Michigan* 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** *Session chair: David Lovell, University of Maryland* Design of a hybrid-electric powertrain model for trajectory optimization Edgar Böttcher, TU Dresden Structural predictability of large-scale aircraft interaction networks *Raúl López-Martín, IFISC*	**Doctoral paper session 2** *Session chair: Marc Bourgois, EUROCONTROL* Multimodal Traffic Coordination for Safety Landings *Pavithra Sathya Kumar, University of the Bundeswehr, Munich, Germany* Spatial Analysis-Driven Facility Location Optimization for Vertiports *Elif Erkek, TU Dresden*	**Doctoral paper session 3** *Session chair: Yu Yu Zhang, University of South Florida* Learning to Explain Air Traffic Situation *Hong-ah Chai, Korea Aerospace University* 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** *Session chair: Dirk Kügler, DLR* 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* 28: A new method to compute more appropriate off-block times and taxiing paths for airport surface management *Ruixin Wang, ENAC*	**ATM performance measurement and management II** *Session chair: Jose Miguel De Pablo, CRIDA* 31: Exploring Airlines Scheduled Buffer Time Adjustment Strategies: An Analytical Approach *Ying Zhou, Nanyang Technological University* 87: Identification and Characterization for Disruptions in the U.S. National Airspace System (NAS) *Mark Hansen, University of California, Berkeley* 7: Impacts of ADS-B In Approach Applications during Revenue Operations *Dan Howell, Regulus Group*	**Autonomous, unmanned and remotely piloted aircraft systems and emerging operations II** *Session chair: Nicolas Durand, ENAC* 32: Including intent in detect-and-avoid systems for remotely piloted aircraft systems *Sybert Stroeve, NLR* 45: Development of Cooperative Operating Practices for Upper-Class E Traffic Management (ETM) *Paul Lee, NASA* 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**		
19:00	**Committee Dinner**		

Wednesday, June 25 2025

6:00	**5k Fun Run**		
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* 4: Responsible AI for Air Traffic Management: Application to Runway Configuration Assistance Tool *Milad Memarzadeh, NASA*	**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 Lab* 6: Assessing Climate Impact of Contrails: Insights from Japan's High-Density Airspace and Meteorological Conditions *Katsuhiro Sekine, The University of Tokyo* 16: Quantifying Uncertainty Distributions for Airport Capacity Predictions *Benjamin Tolley, MIT Lincoln Laboratory* 46: Recommending Traffic Management Initiatives in Non-Convective Weather *James Jones, MIT*
12:00	**Light Lunch**		
12:30		**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*
14:00	**Refreshments**		
14:45	**Visit Prague Airport (optional)**		

Thursday, June 26 2025

8:30	**Keynote 2**		
9:00	**Panel 1** **Panel topic**		
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 *Manuel Arias Chao, Zurich University of Applied Sciences* 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** **Customizing LLMs for ATM: Challenges and Opportunities** *Thinh Pham and Yash Guleria, NTU*	**Tutorial 4** **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**	
19:00	Gala Dinner		

Friday, June 27 2025

8:30	**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*
10:30	Coffee		
11:00	**Panel 2** **Panel topic**		
12:30	**Light Lunch**		
13:30	**Plenary Closing Session** **Best Paper Awards**		
14:30	End of Day 4		