## Tuesday, June 24

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| 8:30 | **Welcome and Registration** | | |
| 9:00 | **Welcome by Conference Chairs** | | |
| 9:15 | **Welcome by Prague Airport**<br>**Welcome by xxx** | | |
| 9:45 | **Keynote 1** | | |
| 10:15 | **Coffee** | | |
| 10:45 | **Integrated airport/airside operations I**<br>*Session chair: TBD*<br><br>*81: Robust Management of Airport Security Queues Considering Passenger Non-compliance with Chance-Constrained Optimization*<br>*Mark Hansen, University of California, Berkeley*<br><br>43: Speech-to-Route: Leveraging Large Language Models for Taxi Route Visualization<br>*Phat Thai, Nanyang Technological University*<br><br>53: Machine learning predictions of Target Off-Block Time and Turnaround Duration for all European A-CDM Airports<br>*Paolino De Falco, EUROCONTROL* | **ATM performance measurement and management I**<br>*Session chair: Jose Miguel De Pablo, CRIDA*<br><br>5: Assessing Airport Surface Traffic Performance from Open Sources of Aviation Data<br>*Xavier Olive, ONERA*<br><br>40: Traffic complexity measurement via collective dynamics analysis of arrival traffic patterns<br>*Xuhao Gui, Nanjing University of Aeronautics and Astronautics*<br><br>19: Unlocking Runway Capacity: Enhancing Efficiency through Dynamic Pairwise Aircraft Wake Separation<br>*Kam Hung Ng, The Hong Kong Polytechnic University* | **Autonomous, unmanned and remotely piloted aircraft systems and emerging operations I**<br>*Session chair: Nicolas Durand, ENAC*<br><br>3: An Evaluation of UTM ConOps for Drone Deliveries: From Pre-Planned Air Corridors to Dynamic 4D Trajectories<br>*Shuangxia Bai, City University of Hong Kong*<br><br>23: Optimization-Guided Exploration of Advanced Air Mobility Congestion Management Strategies with Stochastic Demands<br>*Max Li, University of Michigan*<br><br>30: A Concept for Procedural Terminal Area Airspace Integration of Large Uncrewed Aircraft Systems at Non-Towered Airports<br>*Tim Felix Sievers, DLR & Jordan Sakakeeny, NASA Ames* |
| 12:45 | **Lunch** | | |
| 13:45 | **Doctoral paper session 1**<br>*Session chair: TBD*<br><br>Design of a hybrid-electric powertrain model for trajectory optimization<br>Edgar Böttcher, TU Dresden<br><br>Structural predictability of large-scale aircraft interaction networks<br>*Raúl López-Martín, IFISC* | **Doctoral paper session 2**<br>*Session chair: TBD*<br><br>Multimodal Traffic Coordination for Safety Landings<br>*Pavithra Sathya Kumar, University of the Bundeswehr, Munich, Germany*<br><br>Spatial Analysis-Driven Facility Location Optimization for Vertiports<br>*Elif Erkek, TU Dresden* | **Doctoral paper session 3**<br>*Session chair: TBD*<br><br>Learning to Explain Air Traffic Situation<br>*Hong-ah Chai, Korea Aerospace University*<br><br>Modified Dijkstra's Algorithm for Search and Rescue Operations in Dynamic Wildfire Environments<br>*Elia Ghisellini, ENAC* |
| 14:45 | **Coffee** | | |
| 15:15 | **Integrated airport/airside operations II**<br>*Session chair: TBD*<br><br>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<br>*Hartmut Fricke, TU Dresden*<br><br>28: A new method to compute more appropriate off-block times and taxiing paths for airport surface management<br>*Ruixin Wang, ENAC* | **ATM performance measurement and management II**<br>*Session chair: Jose Miguel De Pablo, CRIDA*<br><br>31: Exploring Airlines Scheduled Buffer Time Adjustment Strategies: An Analytical Approach<br>*Ying Zhou, Nanyang Technological University*<br><br>87: Identification and Characterization for Disruptions in the U.S. National Airspace System (NAS)<br>*Mark Hansen, University of California, Berkeley*<br><br>7: Impacts of ADS-B In Approach Applications during Revenue Operations<br>*Dan Howell, Regulus Group* | **Autonomous, unmanned and remotely piloted aircraft systems and emerging operations II**<br>*Session chair: Nicolas Durand, ENAC*<br><br>32: Including intent in detect-and-avoid systems for remotely piloted aircraft systems<br>*Sybert Stroeve, NLR*<br><br>45: Development of Cooperative Operating Practices for Upper-Class E Traffic Management (ETM)<br>*Paul Lee, NASA*<br><br>70: Vertiport Placement for Urban Air Mobility to Reduce Time for Multimodal Travel<br>*Yashovardhan S. Chati, Tata Consultancy Services* |
| 17:15 | **end of day 1** | | |
| 19:00 | **Committee Dinner** | | |

## Wednesday, June 25

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| 6:00 | **5k Fun Run** | | |
| 10:00 | **Safety, resilience, and security**<br>*Session chair: Sybert Stroeve, NLR*<br><br>64: An MAC Probability Assessment Framework for Integrated Operations in Urban Air Mobility Considering Safety Barriers<br>*Jinpeng Zhang, Beihang University*<br><br>90: Anomaly Detection of Aircraft on Final Approach to an Aerodrome with Temporal Fusion Transformers<br>*Nidhal Bouaynaya, Rowan University*<br><br>4: Responsible AI for Air Traffic Management: Application to Runway Configuration Assistance Tool<br>*Milad Memarzadeh, NASA* | **Air traffic flow management and optimization I**<br>*Session chair: Daniel Delahaye, ENAC*<br><br>10: Efficient Real-Time Aircraft ETA Prediction via Feature Tokenization Transformer<br>*Liping Huang, A*STAR*<br><br>41: Tactical Demand and Capacity Balancing with Uncertainty Using Incremental Path-Search based on Spatio-Temporal Graph<br>*Yutong Chen, Nanyang Technological University*<br><br>*65: Flight allocation in flight-centric air traffic control: A MILP model approach*<br>*Andréas Guitart, ENAC* | **Weather, climate and energy efficiency I**<br>*Session chair: Tom Reynolds, MIT Lincoln Lab*<br><br>6: Assessing Climate Impact of Contrails: Insights from Japan's High-Density Airspace and Meteorological Conditions<br>*Katsuhiro Sekine, The University of Tokyo*<br><br>16: Quantifying Uncertainty Distributions for Airport Capacity Predictions<br>*Benjamin Tolley, MIT Lincoln Laboratory*<br><br>46: Recommending Traffic Management Initiatives in Non-Convective Weather<br>*James Jones, MIT* |
| 12:00 | **Light Lunch** | | |
| 12:30 | **Tutorial session 1** | **Tutorial session 2** | **Tutorial session 3** |
| 14:00 | **Refreshments** | | |
| 14:45 | **Visit Prague Airport (optional)** | | |

## Thursday, June 26

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| 8:30 | **Keynote 2** | | |
| 9:00 | **Panel 1**<br>**Panel topic** | | |
| 10:30 | **Coffee** | | |
| 11:00 | **Automation, human factors, and decision support systems I**<br>*Session chair: Jacco Hoekstra, TU Delft*<br><br>63: Ensuring UAS Airworthiness: Deep Learning-Based Acoustic Health Monitoring of Motor Health<br>*Manuel Arias Chao, Zurich University of Applied Sciences*<br><br>29: Do ATCOs Need Explanations, and Why? Towards ATCO-Centered Explainable AI for Conflict Resolution Advisories<br>*Katherine Fennedy, Nanyang Technological University*<br><br>13: A Data-Driven Framework for Next-Day Traffic Forecasting at Small Airports with Multi-Scale Machine Learning<br>*Zhuoxuan Cao, University of Maryland* | **Air traffic flow management and optimization II**<br>*Session chair: Daniel Delahaye, ENAC*<br><br>57: Shadow Evaluation of Real-Time Machine Learning Services in the Houston Airspace<br>*William Jeremy Coupe, NASA*<br><br>60: Learning Network Flow Control Strategies from Miles-In-Trail Data<br>*Nianxi Xie, Nanjing University of Aeronautics and Astronautics*<br><br>*54: A machine learning model to aid in predicting flight trajectory sequencing delays near the arrival airport*<br>*Danae Mitkas & Martin Durbin, FAA* | **Weather, climate and energy efficiency II**<br>*Session chair: Tom Reynolds, MIT Lincoln Lab*<br><br>55: Probabilistic Risk-Aware Flight Trajectory Planning under Convective Weather<br>*Wei Zhou, Nanyang Technological University*<br><br>58: Weather Considerations for Airport Capacity Decision Support Development<br>*Tom Reynolds, MIT Lincoln Laboratory*<br><br>75: Contrail, or not contrail, that is the question: the "feasibility" of climate-optimal routing<br>*Junzi Sun, TU Delft* |
| 13:00 | Lunch | | |
| 14:00 | **Tutorial 4**<br>**Title** | **Tutorial 5**<br>**Title** | **Tutorial 6**<br>**Title** |
| 15:30 | **Coffee** | | |
| 16:00 | | **Doctoral paper session 4**<br>*Session chair: TBD*<br><br>Optimisation of the North Atlantic Air Traffic Managementto mitigate environmental impact<br>*Nils Ahrenhold, DLR*<br><br>Dynamic modeling of UAV trajectory prediction in an urban environment<br>*Md Ashraful Islam, TU Dresden* | **Doctoral paper session 5**<br>*Session chair: TBD*<br><br>Spatiotemporal Trajectory Planning for Multi-Aircraft Terminal Operations in UAM Considering Wake Effects and Dynamics<br>*Di Lv, Tsinghua University*<br><br>Generative Stress-Testing for Air Traffic Management Resilience<br>*Sinan Abdulhak, University of Michigan* |
| 17:00 | | **end of day 3** | |
| 19:00 | Gala Dinner | | |

## Friday, June 27

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| 8:30 | **Automation, human factors, and decision support systems II**<br>*Session chair: Cheryl Quinn, NASA*<br><br>67: Leveraging Retrieval-Augmented In-context Learning for Complex Air Traffic Scenario Generation<br>*Yash Guleria, Nanyang Technological University*<br><br>88: Automating Terminal Airspace Vectoring: A Machine-Assisted Approach for Sequencing, Spacing and Merging of Arrival Flights<br>*Lim Zhi Jun, Nanyang Technological University*<br><br>61: Adaptive Traffic-Following Scheme for Orderly Distributed Control of Multi-Vehicle Systems<br>*Anahita Jain, The University of Texas at Austin* | **Air traffic flow management and optimization III**<br>*Session chair: TBD*<br><br>82: From En-Route to Touchdown: Uncertainty Analysis of Inbound Traffic Flows to Singapore Changi Airport<br>*Daniel Lubig, TU Dresden*<br><br>85: A robust optimization approach for dynamic airspace configuration<br>*Go Nam Lui, Lancaster University*<br><br>86: Predicting Reactionary Delays in a Hub-Spoke Network using Graph Attention Neural Networks<br>*Constanca Veiga, TU Delft* | **4-D Trajectory planning, prediction, and management**<br>*Session chair: Max Li, University of Michigan*<br><br>8: Stochastic Cruise Speed Control for Time-Based Metering Under Uncertainty<br>*Yoshinori Matsuno, Japan Aerospace Exploration Agency*<br><br>9: Forecasting of Airline En Route Delay for Individual Flights with Supervised Learning<br>*Marta Ribeiro, TU Delft*<br><br>69: Optimized Sequencing and Conflict-Free Path Planning for Arrival Flights during Runway Direction Changes<br>*Hao Jiang, Nanyang Technological University* |
| 10:30 | Coffee | | |
| 11:00 | **Panel 2**<br>**Panel topic** | | |
| 12:30 | **Light Lunch** | | |
| 13:30 | **Plenary Closing Session**<br>**Best Paper Awards** | | |
| 14:30 | **end of day 4** | | |