

**Tuesday, June 16**

8:00	<b>Welcome and Registration</b>		
8:30	<b>Welcome by Conference Chairs</b> Dirk Schaefer, EUROCONTROL Eric Neiderman, FAA		
	<b>Welcome Speeches</b> Henri Werij, TU Delft Jacco Hoekstra, TU Delft Tânia Cardoso Simões, EUROCONTROL **		
9:15	<b>Keynote</b> <b>"The potential of large electric aircraft for future commercial air transport"</b> Reynard de Vries, Elysian Aircraft		
	<b>ROOM A</b>	<b>ROOM B</b>	<b>ROOM C</b>
10:00	<b>Coffee</b>		
10:30	<b>ATM performance measurement and management I</b> Session chair: Xavier Prats, UPC  82: <i>Data-Driven Assessment of DME Operational Usage in Relation to Service Volume Definitions</i> Mahmoud Makhoulouf, ESEO Angers  78: <i>Probabilistic Forecasting of Aircraft Transit Time within a Flight Information Region: A Case Study of Schiphol Airport</i> Philippe Lothaller, TU Delft  133: <i>Temporal Residual Learning for Real-Time Air Traffic Complexity Forecasting</i> Go Nam Lui, Lancaster University	<b>Advanced Air Mobility I</b> Session chair: Dave Lovell, University of Maryland  15: <i>Alternative Non-homotopic Routes and Stochastic Density Estimation for UAS in Urban Airspace</i> Téo Chauvin, ENAC  79: <i>Cooperative UAS Identification for UTM - UAS Position Accuracy Analysis of FLARM and Remote ID Technologies</i> Hartmut Fricke, TU Dresden  108: <i>Enabling Scalable Vertiport Network Design via Terrain-Aware Spatial Filtering and sPCA-Based Candidate Reduction</i> Elif Erkek, TU Dresden	<b>Automation, Human factors, and decision support systems I</b> Session chair: Aurélie Amtzen, University of Southern Norway  68: <i>Interactive Dynamic Airspace Sectorization through Human-in-the-Loop Optimization</i> Clark Borst, TU Delft  12: <i>"Direct to City" or "Direct to SIDDI"? - LLM-based Auto-Correction of Unknown Waypoints for Aviation Speech Models</i> Niclas Wüstenbecker, DLR  54: <i>Retrospective Validation of a Data-Driven TMA Complexity Model with Air Traffic Controllers</i> Zhi Jun Lim, NTU
12:30	<b>Lunch</b>		
13:30	<b>Doctoral paper session 1: ATM Concepts</b> Session chair: Dave Lovell, University of Maryland  21: <i>Towards a retrospective evaluation of sector complexity metrics</i> Raúl López-Martin, IFISC  73: <i>Developing an Industry-Ready Methodology for Instrument Approach Procedures Optimization</i> Fedja Netjasov, University of Belgrade  97: <i>Noncooperative Coordination for Decentralized Air Traffic Management</i> Jaehan Im, The University of Texas at Austin	<b>Doctoral paper session 2: Airports</b> Session chair: Hartmut Fricke, TU Dresden  80: <i>Routing and Scheduling Optimisation for Airport Ground Operations: An Incremental Constraints Study</i> Feezan Akhtar, Queen Mary University of London  91: <i>Data-Driven Quantification and Classification of Service Disruptions at Airports</i> Felix Constantin Hoch, TU Dresden  10: <i>Too Busy to Depeak: Quantifying the Persistence of Peaked Schedules at European Airports</i> Josu Blanco, IFISC	<b>Doctoral paper session 3: Safety and Human Factors</b> Session chair: Dirk Schaefer, EUROCONTROL  11: <i>ATCO Perceptions of AI Decision Support in Air Traffic Control: Advisory and Execution Modes</i> Celina Vetter, Zurich University of Applied Sciences  49: <i>Towards Human-centered Flight-Deck Guidance for Surface Trajectory-Based Operations</i> Minghua Zhang, Beihang University  110: <i>Fuel Leak Hazard Management for Hydrogen and Methane Aircraft</i> Julia Tao, MIT
15:00	<b>Coffee</b>		
15:30	<b>ATM performance measurement and management II</b> Session chair: Xavier Olive, ONERA  104: <i>Validation of the Flight Centric ATC Concept in the Ukrainian Airspace: A Real-Time Simulation</i> Verdiana Bottino, DLR  99: <i>Worldwide Assessment of Vertical Airspace Flexibility in Enroute Airspace</i> Marek Homola, MIT  131: <i>From Disruption Mitigation to Policy Compliance: Airline Cancellation Strategies Under the November 2025 FAA Emergency Order</i> Jing Xu, UC Berkeley	<b>Advanced Air Mobility II</b> Session chair: Lishuai Li, City University of Hong Kong  120: <i>Probabilistic Collision Modeling for UAS under Wind-Induced Uncertainty</i> Md Ashrafur Islam, TU Dresden  132: <i>Decentralized Autonomous Traffic Management through Corridor Networks</i> Jasmine Jerry Aloor, MIT  31: <i>Uncrewed Aircraft System Lost Command and Control Link Arrival Procedures with Simulated Air Traffic Control Resolution Maneuvers</i> Jordan Sakakeeny, NASA	<b>Automation, human factors, and decision support systems II</b> Session chair: Aurélie Amtzen, University of Southern Norway  19: <i>Human-in-the-Loop Simulation Study of the Conflict Alert Parameter: An Attempt to Reduce Nuisance Alerts</i> Alex Konkell, FAA **  29: <i>Operational Evaluation of Machine Learning-Based Miles-to-Touchdown Prediction in Terminal Airspace</i> Marta Sánchez Cidoncha, CRIDA  18: <i>A Characterization of Air Traffic Controller Eye Movements in Response to Conflict Alerts</i> Elena St. Amour, FAA **
17:30	<b>end of day 1</b>		
19:00	<b>Committee Dinner (Restaurant Kruidt, Paardenmarkt 1, 2611 PA Delft)</b>		

## Wednesday, June 17

6:00	<b>5k Fun Run</b> Meeting point: the square behind Hampshire Hotel, Koepoortplaats 3		
8:45	<b>Welcome coffee</b>		
	<b>ROOM A</b>	<b>ROOM B</b>	<b>ROOM C</b>
9:00	<p style="text-align: center;"><b>Air traffic flow management and optimization I</b>  <i>Session chair: Joe Post, USF</i></p> <p>22: <i>En-Route Sector Demand Prediction with a Long- and Short-Term Transformer-Based Spatiotemporal Network</i>                      Junqiang Wan, Civil Aviation University of China</p> <p>34: <i>A Flight-Centric Decision Support Framework for Tactical Airspace Congestion Mitigation under Multi-Scale Traffic Volume Constraints</i>                      Huijuan Yang, ENAC</p> <p>35: <i>Trajectory Options Planning under Uncertainty with Risk-Sensitive Airline Preferences</i>                      Ying Zhou, NTU</p>	<p style="text-align: center;"><b>Environment and energy efficiency</b>  <i>Session chair: Javier Lopes, Boeing</i></p> <p>26: <i>Correlating Physical Contrail Models with Ground-Based Observations</i>                      Ramon Dalmau, EUROCONTROL</p> <p>59: <i>Uncertainty Quantification in Flight Time Prediction for Airline Flight Planning</i>                      Lishuai Li, City University of Hong Kong</p> <p>94: <i>A new modulation charging concept to reduce CO2 and non-CO2 emissions</i>                      Gérald Gurtner, University of Westminster</p>	<p style="text-align: center;"><b>Automation, human factors, and decision support systems III</b>  <i>Session chair: José Miguel De Pablo, CRIDA/Enaire</i></p> <p>103: <i>Graph-based Complexity Forecasts in UK En Route Airspace Using Relevant Aircraft Interactions</i>                      Edward Henderson, The Alan Turing Institute</p> <p>114: <i>Real-Time Direct Route Recommendation using Rule-Based Algorithms: Conflict-Free Advisories for Environmental Impact Reduction</i>                      Àlex Padrós, Indra</p> <p>115: <i>Benefits and Limits of Self-Organization in Autonomous Air Traffic Operations</i>                      Anahita Jain, MIT</p>
11:00	<b>Coffee</b>		
11:30	<p style="text-align: center;"><b>Doctoral paper session 4: Prediction Models</b>  <i>Session chair: Dave Lovell, University of Maryland</i></p> <p>56: <i>A Three-Stage Probabilistic Pipeline for Departure-to-Cruise Prediction</i>                      Mitsuki Tanoue, Osaka Metropolitan University</p> <p>60: <i>A Predict-Then-Optimize Framework for Commercial-Humanitarian Airlift Operations under Operational Uncertainty</i>                      Micah Borrero, University of Michigan</p>	<p style="text-align: center;"><b>Doctoral paper session 5: Environment</b>  <i>Session chair: Hartmut Fricke, TU Dresden</i></p> <p>85: <i>Overcoming limitations of analytical aircraft noise emission estimation using machine-learning</i>                      Norman Peter, TU Dresden</p> <p>113: <i>The Aviation External Cost Integrated Framework - Introducing a Comprehensive Aviation Emission Inventory Model</i>                      Marco Berger, TU Dresden</p>	<p style="text-align: center;"><b>Doctoral paper session 6: Delay</b>  <i>Session chair: Jacco Hoekstra, TU Delft</i></p> <p>27: <i>Exploring delay propagation in air transport using temporal networks</i>                      Pau Esteve, IFISC</p> <p>44: <i>Statistical Causality and Decomposition Analysis of Airline Reactionary Delay</i>                      Abhishek Rajaram, TU Dresden</p>
12:30	<b>Light Lunch</b>		
13:30	Panel: "Will the UAM bubble burst?" Moderator: Dirk Schaefer, EUROCONTROL Panellists: R John Hansman; Jörn Jaeger; Joost Ellerbroeck; Joe Post and Mario Cano		
15:00	<b>Refreshments</b>		
15:30	<b>Tour of the facilities of the Aerospace faculty (optional, reservation required)</b>	<b>Student activity at Outdoor Delft (optional, reservation required); depart at Faculty building at 15:15</b>	

**Thursday, June 18**

8:00	<b>Welcome coffee</b>		
8:30	<b>Plenary talk: "Robin Radar: from birds and drones detection towards supporting advanced unmanned traffic management"</b> <i>Vivien Croes, Robin Radar</i>		
9:15	<b>Plenary talk: "From unexpected discovery to worldwide deployment"</b> <i>Shane Kenny, AirNav Ireland and Karim Zeghal, EUROCONTROL</i>		
10:00	<b>Coffee</b>		
10:30	<b>ROOM A</b>	<b>ROOM B</b>	<b>ROOM C</b>
10:30	<b>Air traffic flow management and optimization II</b> <i>Session chair: Sameer Alam, NTU</i>  52: <i>A Flow-Centric Approach for Network-Level ATFM Delay Optimization and Hotspot Resolution Using Hierarchical Monte Carlo Tree Search</i> Zhengyi Wang, EUROCONTROL  105: <i>A Transition-Aware Methodology for Configuration Pathways in Dynamic Airspace Management</i> Sara Ruano Ferrer, CRIDA  121: <i>Mitigating Uncertainty in an Extended-Arrival Manager Environment</i> Jorn van Beek, TU Delft	<b>Integrated airport/airside operations I</b> <i>Session chair: Dave Lovell, University of Maryland</i>  74: <i>Stand Compatibility of Future Sustainable Aircraft. Case Study: The Elysian E9X</i> Job de Vries, TU Delft  117: <i>Computer Vision-Based Safety Alerts for Airport Surveillance: A Multi-Camera System for Incursions, FOD and Wildlife</i> Álvaro Quintanar, Indra	<b>Safety, resilience, and security I</b> <i>Session chair: Fedja Netjasov, University of Belgrade</i>  72: <i>Impact of Formation Size, Geometry, and Role Assignment on Collision-Avoidance Performance of Commercial Aircraft Formations</i> Songqiying Yang, King Abdullah University of Science and Technology  43: <i>Feudal Hierarchical Multi-Agent Reinforcement Learning for Cooperative Conflict Management in Sectorized Airspace</i> Dexiang Wang, Nanjing University of Aeronautics and Astronautics  3: <i>Formal Verification of Quantum-Resilient Authentication and Handover Protocols for LDACS</i> Suleman Khan, Linköping University
12:30	<b>Lunch</b>		
13:30		<b>Tutorial 1</b> <b>Beyond ADS-B: exploring multi-modal aviation data with tangram</b> <i>Xavier Olive, ONERA</i>	<b>Tutorial 2</b> <b>Dynamo3: Aircraft trajectory optimisation tool for research and education in air traffic management (ATM) and aircraft operations (OPS)</b> <i>Xavier Prats, UPC</i>
15:00	<b>Coffee</b>		
15:30	<b>Weather in air transportation I</b> <i>Session chair: Marta Sánchez, CRIDA</i>  32: <i>Weather Considerations for Terminal Airspace Capacity Decision Support Development</i> Safa Saber, MIT Lincoln Laboratory  48: <i>Wind Field Nowcasting and Forecasting using Denoising Diffusion Probabilistic Models with Aircraft-Derived Data</i> Matthijs Slobbe, LVNL  89: <i>Airspace Capacity Planning for Convective Weather Events</i> James Jones, MIT Lincoln Laboratory	<b>Integrated airport/airside operations II</b> <i>Session chair: David Lovell</i>  5: <i>Monte Carlo Analysis of Runway Status Lights During a Runway Incursion</i> Edward Londner, MIT Lincoln Laboratory  112: <i>Departure Manager improvement through Vision-based Predicted End of Ground handling Time</i> Joost Ellerbroek, TU Delft  95: <i>Exercise, Exercise! The impact of hydrogen in aviation on airport emergency response</i> Twan Keijzer, NLR	<b>Safety, resilience, and security II</b> <i>Session chair: Xiaoqian Sun, Beihang University</i>  96: <i>Stakeholder Perspective Analysis for Airspace Resilience: Informing Countermeasure Design through Multi-Entity Coordination Assessment</i> Max Li, University of Michigan  128: <i>Learning-Based Pre-tactical Conflict Management Strategy for Urban Air Mobility</i> Yuheng Wang, The Hong Kong Polytechnic University  77: <i>Airport resilience and climate change: A global study on airports</i> Xiaoqian Sun, Beihang University
17:30	<b>end of day 3</b>		
19:00	<b>Gala Dinner Nieuwe Kerk (the church opens at 18:30)</b>		

**Friday, June 19**

8:00	<b>Welcome coffee</b>		
	<b>ROOM A</b>	<b>ROOM B</b>	<b>ROOM C</b>
8:30	<p><b>Weather in air transportation II</b> Session chair: James Jones, MIT Lincoln Lab</p> <p>125: METAR-Based Probabilistic Nowcasting of Low Visibility Procedure Phases at Casablanca Airport Soufiane Momtaz, Hassan II University of Casablanca</p> <p>25: Chance Constrained Aircraft Trajectory Planning under Uncertain Convective Environment Wei Zhou, UPC</p> <p>126: Enhanced Weather-Driven Time-Based Separation Procedure Triggering at London Gatwick Airport Soufiane Momtaz, Hassan II University of Casablanca</p>	<p><b>4-D Trajectory planning, prediction and management</b> Session chair: Daniel Delahaye, ENAC</p> <p>87: A Unified, Vectorized and Differentiable Framework for Aircraft Performance Modelling Ramon Dalmau, EUROCONTROL</p> <p>98: Improving Interpretability in Trajectory Generation: A Case Study on Efficient Latent Space Utilization Mohammed El Dor, TU Delft</p> <p>122: Data-Driven Aircraft Speed Profile Prediction for Enhanced Trajectory Realism Angelika Swatowska, EUROCONTROL</p>	<p><b>AAM economics, finance, and policy</b> Session chair: Yu Zhang, USF</p> <p>6: Regional-Scale Multimodal Service Optimization for Innovative Air Mobility Using MILP Xuhao Gui, ENAC</p> <p>41: Third-Party Acceptance Factors for Urban Air Mobility Dayeong Park, Korea Aerospace University</p> <p>134: Like Uber or Like Buses? Economic Feasibility Analysis of UAM for Airport Access Mark Hansen, UC Berkeley</p>
10:30	<b>Coffee</b>		
10:30		<p><b>Tutorial 3</b> <b>Reinforcement Learning for Air Traffic Control applications with BlueSky-Gym</b> Joost Ellerbroek, TU Delft</p>	
12:00	<p><b>Plenary Closing Session</b> <b>Best Paper Awards</b></p>		
13:00	<b>Light Lunch</b>		
14:00	End of Day 4		
14:15	<p><b>ATRD Symposium Committee Meeting</b> (end 15:45)</p>		