

Tuesday, June 16

8:00

Welcome and Registration

8:30

Welcome by Conference Chairs

*Dirk Schaefer, EUROCONTROL
Eric Neiderman, FAA*

Welcome Speeches

*Henri Werij, TU Delft
Jacco Hoekstra, TU Delft
Tânia Cardoso Simões, EUROCONTROL*

9:15

Keynote

"The potential of large electric aircraft for future commercial air transport"

Reynard de Vries, Elysian Aircraft

10:00

Coffee

10:30

ATM performance measurement and management I

Session chair: Xavier Prats, UPC

82: Data-Driven Assessment of DME Operational Usage in Relation to Service Volume Definitions
Mahmoud Makhoul, ESEO Angers

78: Probabilistic Forecasting of Aircraft Transit Time within a Flight Information Region: A Case Study of Schiphol Airport
Phillipe Lothaller, TU Delft

133: Temporal Residual Learning for Real-Time Air Traffic Complexity Forecasting
Go Nam Lui, Lancaster University

Advanced Air Mobility I

Session chair: Dave Lovell, University of Maryland

15: Alternative Non-homotopic Routes and Stochastic Density Estimation for UAS in Urban Airspace
Téo Chauvin, ENAC

79: Cooperative UAS Identification for UTM - UAS Position Accuracy Analysis of FLARM and Remote ID Technologies
Hartmut Fricke, TU Dresden

108: Enabling Scalable Vertipoint Network Design via Terrain-Aware Spatial Filtering and sPCA-Based Candidate Reduction
Elif Erkek, TU Dresden

Automation, Human factors, and decision support systems I

Session chair: Aurélie Amtzen, University of Southern Norway

68: Interactive Dynamic Airspace Sectorization through Human-in-the-Loop Optimization
Clark Borst, TU Delft

12: "Direct to City" or "Direct to SIDDI"? - LLM-based Auto-Correction of Unknown Waypoints for Aviation Speech Models
Niclas Wüstenbecker, DLR

54: Retrospective Validation of a Data-Driven TMA Complexity Model with Air Traffic Controllers
Zhi Jun Lim, NTU

12:30

Lunch

13:30

Doctoral paper session 1: ATM Concepts

Session chair: Dave Lovell, University of Maryland

21: Towards a retrospective evaluation of sector complexity metrics
Raúl López-Martín, IFISC

73: Developing an Industry-Ready Methodology for Instrument Approach Procedures Optimization
Velibor Andric, University of Belgrade

97: Noncooperative Coordination for Decentralized Air Traffic Management
Jaehan Im, The University of Texas at Austin

Doctoral paper session 2: Airports

Session chair: Hartmut Fricke, TU Dresden

80: Routing and Scheduling Optimisation for Airport Ground Operations: An Incremental Constraints Study
Feezan Akhtar, Queen Mary University of London

91: Data-Driven Quantification and Classification of Service Disruptions at Airports
Felix Constantin Hoch, TU Dresden

10: Too Busy to Depeak: Quantifying the Persistence of Peaked Schedules at European Airports
Josu Blanco, IFISC

Doctoral paper session 3: Safety and Human Factors

Session chair: Dirk Schaefer, EUROCONTROL

11: ATCO Perceptions of AI Decision Support in Air Traffic Control: Advisory and Execution Modes
Celina Vetter, Zurich University of Applied Sciences

49: Towards Human-centered Flight-Deck Guidance for Surface Trajectory-Based Operations
Minghua Zhang, Beihang University

110: Fuel Leak Hazard Management for Hydrogen and Methane Aircraft
Julia Tao, MIT

15:00

Coffee

15:30

ATM performance measurement and management II

Session chair: Xavier Prats, UPC

104: Validation of the Flight Centric ATC Concept in the Ukrainian Airspace: A Real-Time Simulation
Verdiana Bottino, DLR

99: Worldwide Assessment of Vertical Airspace Flexibility in Enroute Airspace
Marek Homola, MIT

131: From Disruption Mitigation to Policy Compliance: Airline Cancellation Strategies Under the November 2025 FAA Emergency Order
Jing Xu, UC Berkeley

Advanced Air Mobility II

Session chair: Lishuai Li, City University of Hong Kong

120: Probabilistic Collision Modeling for UAS under Wind-Induced Uncertainty
Md Ashrafur Islam, TU Dresden

132: Decentralized Autonomous Traffic Management through Corridor Networks
Jasmine Jerry Aloor, MIT

31: Uncrewed Aircraft System Lost Command and Control Link Arrival Procedures with Simulated Air Traffic Control Resolution Maneuvers
Jordan Sakakeeny, NASA

Automation, Human factors, and decision support systems II

Session chair: Aurélie Amtzen, University of Southern Norway

19: Human-in-the-Loop Simulation Study of the Conflict Alert Parameter: An Attempt to Reduce Nuisance Alerts
Elena St. Amour, FAA

29: Operational Evaluation of Machine Learning-Based Miles-to-Touchdown Prediction in Terminal Airspace
Faustino Tello Caballo, CRIDA

18: A Characterization of Air Traffic Controller Eye Movements in Response to Conflict Alerts
Elena St. Amour, FAA

17:00

end of day 1

19:00

Committee Dinner (Name, location)

Wednesday, June 17

6:00
8:45
9:00

5k Fun Run

Welcome coffee

<p style="text-align: center;">Air traffic flow management and optimization I <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;">Environment and energy efficiency <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;">Automation, human factors, and decision support systems III <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 Multi-Agent Traffic Systems</i> Anahita Jain, MIT</p>
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11:00
11:30

Coffee

<p style="text-align: center;">Doctoral paper session 4: Prediction Models <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;">Doctoral paper session 5: Environment <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;">Doctoral paper session 6: Delay <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>
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12:30
13:30

Light Lunch

	<p>Tutorial 1 Beyond ADS-B: exploring multi-modal aviation data with tangram <i>Xavier Olive, ONERA</i></p>	
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15:00
15:15

Refreshments

Visit TU Delft (optional)	Student activity (optional)	
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Thursday, June 18

8:00	Welcome coffee		
8:30	Panel 1: "Title" <i>Moderator: Name, Affiliation</i>		
10:00	Coffee		
10:30	<p style="text-align: center;">Air traffic flow management and optimization II <i>Session chair: Sameer Alam, NTU</i></p> <p>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</p> <p>105: <i>A Transition-Aware Methodology for Configuration Pathways in Dynamic Airspace Management</i> Sara Ruano Ferrer, CRIDA</p> <p>121: <i>Mitigating Uncertainty in an Extended-Arrival Manager Environment</i> Jorn van Beek, TU Delft</p>	<p style="text-align: center;">Integrated airport/airside operations I <i>Session chair: Max Li, University of Michigan</i></p> <p>74: <i>Stand Compatibility of Future Sustainable Aircraft. Case Study: The Elysian E9X</i> Job de Vries, TU Delft</p> <p>117: <i>Computer Vision-Based Safety Alerts for Airport Surveillance: A Multi-Camera System for Incursions, FOD and Wildlife</i> Álvaro Quintanar, Indra</p>	<p style="text-align: center;">Safety, resilience, and security I <i>Session chair: Fedja Netjasov, University of Belgrade</i></p> <p>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</p> <p>43: <i>Feudal Hierarchical Multi-Agent Reinforcement Learning for Cooperative Conflict Management in Sectorized Airspace</i> Dexiang Wang, Nanjing University of Aeronautics and Astronautics</p> <p>3: <i>Formal Verification of Quantum-Resilient Authentication and Handover Protocols for LDACS</i> Suleman Khan, Linköping University</p>
12:30	Lunch		
13:30	<p style="text-align: center;">Tutorial 2 Dynamo3: Aircraft trajectory optimisation tool for research and education in air traffic management (ATM) and aircraft operations (OPS) <i>Xavier Prats, UPC</i></p>		
15:00	Coffee		
15:30	<p style="text-align: center;">Weather in air transportation I <i>Session chair: Marta Sánchez, CRIDA</i></p> <p>32: <i>Weather Considerations for Terminal Airspace Capacity Decision Support Development</i> Safa Saber, MIT Lincoln Laboratory</p> <p>48: <i>Wind Field Nowcasting and Forecasting using Denoising Diffusion Probabilistic Models with Aircraft-Derived Data</i> Matthijs Slobbe, LVNL</p> <p>89: <i>Airspace Capacity Planning for Convective Weather Events</i> James Jones, MIT Lincoln Laboratory</p>	<p style="text-align: center;">Integrated airport/airside operations II <i>Session chair: Max Li, University of Michigan</i></p> <p>5: <i>Monte Carlo Analysis of Runway Status Lights During a Runway Incursion</i> Edward Londner, MIT Lincoln Laboratory</p> <p>112: <i>Departure Manager improvement through Vision-based Predicted End of Ground handling Time</i> Joost Ellerbroek, TU Delft</p> <p>95: <i>Exercise, Exercise! The impact of hydrogen in aviation on airport emergency response</i> Twan Keijzer, NLR</p>	<p style="text-align: center;">Safety, resilience, and security II <i>Session chair: Xiaoqian Sun, Beihang University</i></p> <p>96: <i>Stakeholder Perspective Analysis for Airspace Resilience: Informing Countermeasure Design through Multi-Entity Coordination Assessment</i> Neil G. Jacobson, Project Gestalt</p> <p>128: <i>Learning-Based Pre-tactical Conflict Management Strategy for Urban Air Mobility</i> Yuheng Wang, The Hong Kong Polytechnic University</p> <p>77: <i>Airport resilience and climate change: A global study on airports</i> Xiaoqian Sun, Beihang University</p>
17:30	end of day 3		
19:00	Gala Dinner Nieuwe Kerk (the church opens at 18:30)		

Friday, June 19

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