

2023 FAA DATA CHALLENGE

DRIVING INNOVATION THROUGH DATA

FORUM AGENDA

Wednesday, June 21, 2023



[Day 1 Livestream](#)

- | | |
|----------------|--|
| 8:00 – 9:00 am | <i>Check-in and poster setup</i> |
| 9:00 – 9:15 am | FAA Data Challenge Forum Opening Remarks & Introductions
Marseta Dill, Deputy Chief Data Officer, Federal Aviation Administration
Shelley Spears, National Institute of Aerospace |
| 9:15 – 9:30 am | Welcome & Security Briefing
Dr. Craig Wanke, The MITRE Corporation |
| 9:30 – 9:35 am | Kick-off Team Presentations |

TEAM PRESENTATIONS

Improve Aviation Safety

- | | |
|------------------|---|
| 9:35 – 10:15 am | George Mason University
"Proposal for a Modernized Flight Risk Assessment Tool for General Aviation Pre-Flight Planning" |
| 10:15 – 10:30 am | <i>Morning Break</i> |
| 10:30 – 11:10 am | The Cooper Union and Manhattan College
"Safety with Numbers: A Data-Driven Approach to Mitigate Aviation Accidents" |
| 11:15 – 11:55 am | University of North Dakota
"LAGOM: A Balanced Approach to Real-Time Flight Safety Analysis" |
| 11:55 – 1:15 pm | <i>Lunch Break</i> |
| 1:15 – 1:55 pm | University of Southern California
"Artificial Intelligence to Expediate Data Analysis on Runway Incursions and Excursions" |
| 2:00 – 2:40 pm | University of Southern California
"Probabilistic Learning and Optimization for Real-Time Flight Management with Safety and Environmental Constraints" |
| 2:40 – 3:05 pm | <i>Afternoon Break</i> |

Improve Operational Efficiency of the NAS

- | | |
|----------------|--|
| 3:05 – 3:45 pm | Duke University
"An Optimization of Airport Surface Congestion to Minimize Taxi Times" |
| 3:45 – 4:55 pm | Poster Session |
| 4:55 – 5:00 pm | Adjourn |

All times are in Eastern Daylight Time (EDT).

2023 FAA DATA CHALLENGE

DRIVING INNOVATION THROUGH DATA

FORUM AGENDA

Thursday, June 22, 2023



[Day 2 Livestream](#)

- | | |
|------------------|--|
| 8:15 – 8:25 am | <i>Teams arrive for tours</i> |
| 8:30 – 10:00 am | MITRE Lab Tours for University Teams
IDEA, SEAL, and MASE Labs |
| 10:00 – 10:10 am | <i>Check-in and Morning Break</i> |
| 10:10 – 10:15 am | Welcome |

TEAM PRESENTATIONS

Assist with the Rapidly Evolving New and Novel Uses of the NAS

- | | |
|------------------|--|
| 10:20 – 11:00 am | Embry-Riddle Aeronautical University
"Expanding the Capabilities of the NAS through AI: A White Box for the Airspace Ecosystem" |
| 11:05 – 11:45 am | Georgia Institute of Technology
"A Deep Learning Approach Using Social Media Data to Estimate Ground Risk of UAS in Urban Areas" |
| 11:50 – 12:30 pm | University of Miami
"Machine Learning for Dynamic Scheduling of Air Taxis" |
| 12:30 – 1:30 pm | <i>Lunch Break</i> |
| 1:45 – 3:00 pm | Networking Opportunity & Poster Session |
| 3:05 – 3:20 pm | Group Photo |
| 3:25 – 3:45 pm | Remarks from Steering Committee |
| 3:45 – 4:45 pm | Awards Ceremony and Reception
Natesh Manikoth, Chief Data Officer, Federal Aviation Administration |
| 4:45 – 4:55 pm | Closing Remarks |
| 4:55 – 5:00 pm | Adjourn |

For more information about the 2023 FAA Data Challenge Forum, please visit
<https://faadatachallenge.nianet.org/forum-information/>

#FAADataChallenge2023

All times are in Eastern Daylight Time (EDT).