

2023 FAA DATA CHALLENGE

DRIVING INNOVATION THROUGH DATA

DRAFT FORUM AGENDA

WEDNESDAY, JUNE 21, 2023

- 8:00 – 9:00 am Registration and Poster setup
- 9:00 – 9:10 am **Welcome and Opening Remarks**
Craig Wanke, MITRE and Laz Bosch, NIA
- 9:10 – 9:30 am **FAA Data Challenge Forum Introduction**
Marseta Dill, Deputy Chief Data Officer, Federal Aviation Administration

TEAM PRESENTATIONS

Improve Aviation Safety

- 9:35 – 10:15 am **Embry-Riddle Aeronautics University**
"AI-Based Weather Simulation"
- 10:15 – 10:30 am *Morning Break*
- 10:30 – 11:10 am **George Mason University**
"Proposal for a Modernized Flight Risk Assessment Tool for General Aviation Pre-Flight Planning"
- 11:15 – 11:55 am **The Cooper Union**
"Safety with Numbers: A Data-Driven Approach to Mitigate Aviation Accidents"
- 11:55 – 1:15 pm *Lunch Break*
- 1:15 – 1:55 pm **University of North Dakota**
"LAGOM: A Balanced Approach to Real-Time Flight Safety Analysis"
- 2:00 – 2:40 pm **University of Southern California**
"Artificial Intelligence to Expediate Data Analysis on Runway Incursions and Excursions"
- 2:40 – 3:05 pm *Afternoon Break*
- 3:05 – 3:45 pm **University of Southern California**
"Probabilistic Learning and Optimization for Real-Time Flight Management with Safety and Environmental Constraints"
- 3:50 – 4:05 pm Group Photo
- 4:05 – 4:55 pm **Poster Session**
- 4:55 – 5:00 pm Adjourn

The 2023 FAA Data Challenge Forum will be live streamed at [TBD](#).
All times are in Eastern Daylight Time (EDT).

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THURSDAY, JUNE 22, 2023

8:00 – 8:05 am Welcome

TEAM PRESENTATIONS, CONT.

Improve Operational Efficiency of the NAS

8:05 – 8:45 am **Duke University**
“An Optimization of Airport Surface Congestion to Minimize Taxi Times”

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

8:50 – 9:30 am **Embry-Riddle Aeronautical University**
“Expanding the Capabilities of the NAS through AI: A White Box for the Airspace Ecosystem”

9:30 – 9:45 am *Morning Break*

9:45 – 10:25 am **Georgia Institute of Technology**
“A Deep Learning Approach Using Social Media Data to Estimate Ground Risk of UAS in Urban Areas”

10:30 – 11:25 am **University of Miami**
“Machine Learning for Dynamic Scheduling of Air Taxis”

11:25 – 11:45 am **Title of Presentation TBD**
Speaker name and affiliation

11:45 – 12:45 pm *Lunch Break*

1:00 – 3:00 pm **Tours** – IDEA Lab and MASE Lab

3:00 – 4:00 pm *Networking Opportunity*

4:00 – 5:30 pm **Awards Ceremony and Reception**
Natesh Manikoth, Chief Data Officer, Federal Aviation Administration

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

#FAADataChallenge2023

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