



Home



Program



Important Dates



Organizers



Registration



Venue



Accommodation

The 6th OpenSky Workshop

15/16 November 2018 in Frankfurt, Germany

[Read more](#)

About

Since its launch in 2013, the OpenSky Network has quickly evolved to a large-scale air traffic control data collection and sharing platform. With now more than 1000 sensors operated by volunteers across the globe and more than 5000 users, the OpenSky Network is today greatly contributing towards the vision of a more efficient, secure and reliable operation of the airspace by providing open accessibility of air traffic control data to the public. Following the successful workshops in the last years, we are proud to announce the sixth instance of the OpenSky workshop. This two-day event will take place in Frankfurt (Germany) in November 2018. The event is targeted at anyone interested in data-based aviation research. The workshop will serve as a forum to discuss new ideas, the network itself, and research activities around the OpenSky Network. Participants are invited to actively contribute to the program by presenting their projects at the workshop. As in the last years, there will be many opportunities to get to know the community during the social activities around the workshop program. In the past years, the workshop attracted a diverse and interesting audience from research, authorities, and industry.

Program



Thursday,



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15/11/2018

09:00 AM - 09:30
AM

Welcome & Introduction

09:30 AM - 10:30
AM

Session: OpenSky: Past, Present, Future
OpenSky Development Review 2016-2018
Matthias Schäfer (SeRo Systems)
Update on OpenSky - FLARM Integration
Giorgio Tresoldi (ETH Zurich)

10:30 AM - 11:00
AM

Break

11:00 AM - 12:00
AM

Session: Weather & Co
Using ADS-B and Satellite imagery to analyze weather avoidance strategies
Simon Proud (University of Oxford)
Establishing a flight route database for Opensky Network
Jannis Lübke (OpenSky Network)

12:15 AM - 01:30
PM

Lunch

01:30 PM - 02:30
PM

Session: Security 1 - Location & Track Verification
ADS-B Track Verification Using Signal Reflections
Daniel Moser (ETH Zurich)
ADS-B Message Authentication Protocol Based on Location Verification
Ala' Darabseh (NYU Abu Dhabi)

02:30 PM - 03:00
PM

Break

03:00 PM - 04:00
PM

Session: Security 2 - Defending against Data Injection
FDI-T: A Testing Framework for Air Traffic Control Systems Based on False Data Injection
Aymeric Cretin (Femto-ST Institute)
The Importance of Being Earnest, A Trivial (ADS-B) Comedy for Serious People
Mauro Leonardi (University of Rome "Tor Vergata")

04:00 PM - 04:30
PM

Break

04:30 PM - 05:30
PM

Session: Special Topics
ADS-B Archaeology – Evolution of ADS-B adoption in Europe and future prospects
Enrico Spinielli (Eurocontrol)
Using aircraft tracking data to infer state and statistics for firefighting aircraft operations in Australia





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Andrew Matthews (National Aerial Firefighting Centre Australia)

Integrating Hardware Feeders with OpenSky

Guenther Koellner (Jetvision)

05:45 PM - 06:15

OpenSky Awards

PM

Vincent Lenders

07:30 PM -

Dinner Frankfurt City

Friday, 16/11/2018

09:30 AM - 10:30

Session: Understanding Air Traffic (Control)

AM

Detecting controllers' actions on past ADS-B data

Xavier Olive (ONERA)

Understanding airline behaviours on trajectory choices through
opendata

Paola Bassi (University of Trieste)

10:30 AM - 11:00

Break

AM

11:00 AM - 12:00

Session: Machine Learning Applications

AM

Exploring density-based clustering for anomaly detection in air traffic
data

Axel Tanner (IBM Zurich Research Lab)

Aircraft Classification through Movement Patterns

Martin Strohmeier (University of Oxford)

12:00 AM - 01:30

Lunch

PM

01:30 PM - 02:30

Session: Data Processing Challenges

PM

Using a Kubernetes Cluster to generate High-Resolution Flight-Track-
Images

Kai Renz (University of Applied Sciences Darmstadt)

Radiosondes - New opportunities

Rui Pinheiro (SkySquitter)

02:30 PM - 03:00

Farewell & Closing

PM

Rui Pinheiro & Vincent Lenders

Also, you may want to have a look at the presentations of the last workshops [here](#).





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Presentation titles due	October 1st 2018
Notification of acceptance	October 7th 2018
Program announcement	October 15th 2018
Workshop Dates	November 15-16th 2018

Organizers

General Chair	Rui Pinheiro (Skysquitter, Germany)
Program Chair	Martin Strohmeier (University of Oxford, UK)
Publication/Web Chair	Matthias Schäfer (SeRo Systems, Germany)
Registration Chair	Marco Meides (SeRo Systems, Germany)
Technical Program Committee	Rainer Kölle (EUROCONTROL, Belgium) Vincent Lenders (armasuisse, Switzerland) Ivan Martinovic (University of Oxford, UK) Fabio Ricciato (OpenSky Network, Italy) David Scarlatti (Boeing Research & Technology Europe, Spain) Andrea Schlapbach (FLARM Technology, Switzerland)

Registration

The registration fees are*:

Regular Attendance	200€
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Speakers Free

Association Members Free

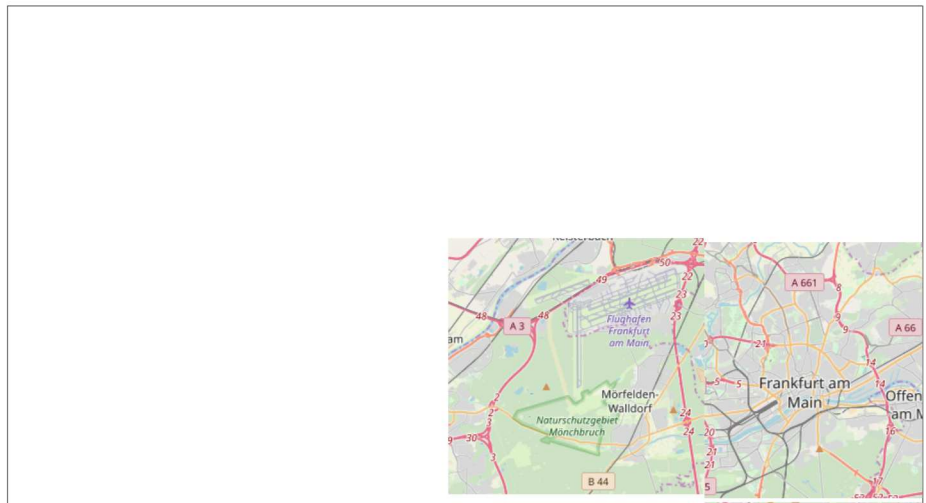
* fees include 2 lunches (day 1 and 2), 1 dinner (day 1), and coffee+soft drinks during the workshop.

Regular attendees need to buy a ticket using the form below. Speakers or association members with free attendance, please register by sending an email to workshop18@opensky-network.org. If you have any questions regarding the registration, please contact Marco Meides.

Choose a show

There are currently no shows by %host_name% available.

Venue



The workshop takes place in the Hilton Frankfurt Airport. The hotel is located in THE SQAIRE building in Frankfurt airport and offers direct access via sky walk from Terminal 1. Follow signs to THE SQAIRE and long distance trains. At the train station, take THE SQAIRE East entrance then take the lift to level 5. For further directions, please refer to [this website](#).

Accommodation

We recommend to stay close to the workshop hotel to make this event most enjoyable. We have





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organized special rates from 14 November to 16 November at the following hotels:

Hilton Frankfurt Airport

Website: [Hilton Frankfurt Airport](#)

199€ / night | single guest room | breakfast included

Hilton Garden Inn Frankfurt Airport

Website: [Hilton Garden Inn Frankfurt Airport](#)

184€ / night | single guest room | breakfast included

If you want to benefit from a special rate at one of these hotels, please create your booking by sending an email to frankfurtairport.reservations@hilton.com or by calling +49 (0)69 2601 200 2288. Just mention "OpenSky". The special rates are not available for online bookings. Please note this is a limited offer on a first come, first served basis.

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