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OpenSky Workshop 2015

Room 114, 1st Floor, Robert Hooke Building, Computer Science Department, Oxford

Directions: https://www.cs.ox.ac.uk/aboutus/directions.html
(Select Robert Hooke Building)

Thursday, 26. Nov.

09:00 – 09:15   Welcome & overview (Ivan Martinovic)
09:15 – 09:30   Introduction (All)

09:30 – 12:30   **Session: OpenSky** (incl. 30-min break)

The OpenSky Network: Past, Present and Future Directions
Vincent Lenders (50')

OpenSky's Big Data Architecture
Markus Fuchs (50')

Algorithms and Tools for Processing OpenSky's Raw Data
Matthias Schäfer (25')

12:30 – 14:00   **Lunch (and Discussion)**

14:00 – 17:00   **Session: Research** (incl. 30-min break)

Introduction to Mode-S non-ADS-B... or: The Remaining 88% of Mode-S
Rui Pinheiro (50')

Using Standard and Directional ADS-B together with other Operational Messages to Enrich Commercial Airport Information and Billing Systems
Steffen Reithermann (25')

Message Loss on the 1090 MHz Channel
Matthias Schäfer (50')

19:00 – 21:00   **Dinner** (Invitation) Oxford City

Friday, 27. Nov.

09:00 – 12:00   **Session: Security I** (incl. 30-min break)

ATC Data Link Security
Matt Smith (25')

Detection of Distributed Location Spoofing Attacks in ADS-B Multilateration Systems
Patrick Leu (50')

Drones and Location Verification
Richard Baker (25')

12:00 – 14:00   **Lunch (and Discussion)**

14:00 – 16:30   **Session: Security II** (incl. 30-min break)

Traffic Alert and Collision Avoidance System (TCAS) Security
Daniel Moser (25')

Detecting Anomalies in Air Traffic
Alina Freund (25')

Air Traffic Security Research
Martin Strohmeier (50')

16:30 – 17:00   **Next Steps (All)**