AeroNet

NEWSLETTER #1

February 2026

AERONET KICKOFF

Kicked off at London South Bank University in October 2026, the MSCA AeroNet project brings together industry and academia to research integrated terrestrial–aerial–satellite networks for next-generation in-flight connectivity.

IEEE CHAIR

Prof. Fabrizio Granelli from the University of Trento chairs the IEEE P1954 Standardization Committee, leading the development of the IEEE P1954 standard for self-organizing, spectrum-agile UAV networks that autonomously form interoperable airborne communication systems and extend connectivity to ground users.

COURSES AT NKUA AND ONLINE

AeroNet Courses 1, 2, 5, 6 and 7 were held on November 11–14, 2025, as a hybrid event at the NKUA covering standardization, IPR, and project management.
Day 1 included expert talks from Orange Polska and Airbus Aircraft on telecom and non-terrestrial network standards.

SECONDMENTS

- Satwat Bashir is undertaking a secondment with TU Dresden focusing on federated learning for 3D mobility management
- Chenrui Qiu is undertaking a secondment with SIGINT Solutions focusing on UAV coverage optimisation

BEST PAPER AWARD WWRF

AeroNet was recognised with the runner-up best paper award at the Wireless World Research Forum's 54th Meeting, hosted by Kingston University.

PUBLISHED PAPERS

- **Coverage Optimization under Incomplete Information in Aerial-Ground Wireless Networks** – Qiu et al., IEEE Transactions on Vehicular Technology (TVT)
- **Robust and Resilient Terrestrial–Non-Terrestrial Connectivity for In-Flight Connectivity in the Beyond-5G/6G Era** – Hjalmarsson et al., Wireless World Research and Trends Magazine
- **Performance Comparison of IBN orchestration using LLM and SLMs** - Phone et al., IEEE Communication QoS, Reliability & Modelling
- **Location-Informed Edge Server Selection in Integrated Access Backhaul-Enabled 6G Networks**, D. Xenakis, IEEE ICC