**INTRODUCTION**

Today, 5G networks are being worldwide rolled out, with significant benefits to our economy and society. However, terrestrial 5G systems alone are not expected to be sufficient for the challenges that 2030+ networks will experience. In this framework, the integration of the satellite industry in the 3GPP ecosystem is now a reality thanks to Rel. 17, in which the features for 4G and 5G systems to support a non-terrestrial component are specified. Further studies are already on-going to define 5G-Advanced (up to Rel. 20) and 6G (beyond Rel. 20) specifications, in which Non-Terrestrial Networks (NTN) are globally recognised as a key enabler of a unified, rather than integrated, 3D terrestrial/non-terrestrial network infrastructure. Such architecture will combine terrestrial, air-borne, and space-borne Radio Access Networks, including both standalone nodes and mega-constellations, for the convergence of the physical, human, and digital worlds. Aiming at efficient and flexible network operations, the global architecture shall be autonomous, intelligent, self-organizing, and resilient, in which the ground, user, and space segments are expected to witness a major breakthrough in technologies and techniques.

**CALL FOR PAPERS**

You are invited to submit full papers to the technical sessions of the NTN6G workshop. The submission can be either a regular scientific paper (4 to 6 pages) that will appear on IEEEExplore or a presentation paper (2 pages). A Special Issue of the IEEE Journal of RFID will promote the most important results presented at the conference. Areas of interest for the NTN6G workshop include, but are not limited to:

- Network architecture
- Cognitive radios and emerging technologies
- Localisation, detection, and tracking
- Standardisation and regulation
- Free Space Optical communications
- Quantum communications
- Artificial Intelligence and Machine Learning
- Antenna design and processing
- Propagation modelling and channel description
- 6G verticals for NTN
- Joint communication and sensing
- End-to-end Security paradigms
- Network orchestration and service provisioning
- Spectrum farming
- NTN-enabled IoT concepts
- Routing for dense multi-orbit space networks
- Unified air-interface
- Edge computing and caching
- Horizontal/vertical handovers
- Software-defined networking

More details for paper submission, templates, and instructions for authors are available [here](#).

**WORKSHOP CHAIRS**

Alessandro Guidotti, Consorzio Nazionale Interuniversitario per le Telecomunicazioni (CNIT), a.guidotti@unibo.it

Alessandro Vanelli-Coralli, University of Bologna

Mohamed El Jaafari, Thales Alenia Space France

Tomaso De Cola, Deutsches Zentrum für Luft- und Raumfahrt (DLR)

Konstantinos Ntontin, University of Luxembourg