

IEEE WISEE 2023 6-8 September 2023, Aveiro, Portugal

## INTRODUCTION

Aerospace communications are now evolving to the "Space 2.0" paradigm, which is based on the concept of space intelligence, i.e., the capability of building and orchestrating a networked cognitive space environment. In this context, the terrestrial and non-terrestrial components will be unified towards a 3D network architecture, providing global, ubiquitous, resilient, and always-on communications. Such a system architecture would be particularly beneficial in emergency situations, e.g., after an earthquake or terroristic attack, when the terrestrial infrastructure alone might be disrupted. A flexible and self-organising 3D network would be capable of promptly providing connectivity on-ground to the first responders and, in general, for emergency communications. In this context, glue technologies constitute the necessary common platform for the innovative systems based on the non-terrestrial components (e.g., satellites, drones) that shall be deployed in the near future.

## **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 IEEExplore 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 Optical communications Quantum communications Artificial Intelligence and Machine Learning Antenna design and processing Propagation modelling and channel description NTN for emergency scenarios Software Defined Radios for resilient communications Software Defined Networking and Network Function Virtualization in extreme application scenarios

More details for paper submission, templates, and instructions for authors are available here.

## **WORKSHOP CHAIRS**

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