



sensors



an Open Access Journal by MDPI

UAV Assisted 5G and Future Wireless Networks

Guest Editors:

Prof. Dr. Chunbo Luo

Dr. Cheng Jin

Prof. Dr. Gun Li

Prof. Dr. Junyu Lai

Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editors

Unmanned aerial vehicles (UAVs) are becoming increasingly important for 5G and beyond (e.g., 6G) wireless networks by providing a game-changing technology to enhance real-world applications with ubiquitous, stable, and high-performance wireless connections. Despite their huge potential, UAV-assisted networks need to address key challenges such as stringent onboard resources, three-dimensional mobility, speed dynamicity, high link disruption, and large Doppler effects. Currently, extensive research on UAV and wireless networks has attracted significant efforts with fruitful research outcomes. This Special Issue aims to provide a focused platform for sharing state-of-the-art works on enabling technologies and novel applications of UAV assisted 5G and beyond wireless networks, with a particular focus on the following topics (but not limited to them):

- Network architecture design;
- UAV control strategies;
- MIMO and beamforming;
- Signal processing;
- Hardware design, including VSLAM and acceleration algorithms;
- Internet of Things;
- Novel applications;
- Multi-UAV systems;
- Machine learning methods.



mdpi.com/si/113993

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)