Special Issue

UAV Assisted 5G and Future Wireless Networks

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.

Guest Editors

Prof. Dr. Chunbo Luo

Dr. Cheng Jin

Prof. Dr. Gun Li

Prof. Dr. Junyu Lai

Deadline for manuscript submissions

closed (31 August 2024)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/113993

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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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.

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

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