Special Issue

Recent Advances in UAV Communications and Networks

Message from the Guest Editors

Unmanned aerial vehicle (UAV) communications have grown rapidly and have been applied in many scenarios over the past few years. However, many challenges remain. On one hand, various emerging technologies such as extremely large-scale arrays (XL-arrays), reconfigurable intelligent surfaces (RISs), edge intelligence, and integrated sensing and communication will be integrated into UAV communications. Additionally, the use of high-spectrum and large-scale arrays shifts traditional far-field UAV communications into near-field communications (NFCs), resulting in different signal transmission models. On the other hand, advanced methods for two-dimensional (2D) and three-dimensional (3D) UAV trajectory design are essential for UAV communications and networks. Furthermore, in future 6G systems, dedicated UAVs will face more complex environments. This Special Issue calls for papers related to all aspects of UAV communications and networks. Topics of interest in this Special Issue include but are not limited to the following:

- XL-array communications for UAV networks;
- Near-field communications for UAV networks;
- UAV meets Internet of Things, Internet of Vehicles, AR/VR, etc.

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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.

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