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UAV Assisted 5G and Future Wireless Networks

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Deadline for manuscript submissions:
closed (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.

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Message from the Editor-in-Chief

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