

## Special Issue

# Advances in UAV Networks Towards 6G

### Message from the Guest Editors

Unmanned Aerial Vehicles (UAVs) have been widely accepted as one of the potential technologies for future six-generation (6G) networks. On the one hand, UAVs can serve as aerial relays and access points (APs) to extend the coverage range of networks and provide communication connectivity. On the other hand, UAVs can also be flexibly deployed as aerial servers to provide computing ability, such as mobile edge computing-enabled UAV networks. Different from ground base stations in cellular networks, UAVs are characterized by the high mobility, which brings new optimization perspectives, such as cooperative control, positioning, and trajectory design. Furthermore, UAV networks are characterized by unique channel attributes of UAV-ground links, asymmetric quality of service (QoS) demands for downlink commands and uplink data transmission, and energy limitations. These distinctive features make the deployment of UAVs in future 6G networks a challenging issue that requires innovative strategies to ensure effective integration and operation.

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### Guest Editors

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Dr. Zhaohui Yang  
Dr. Mingzhe Chen

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### Deadline for manuscript submissions

closed (31 December 2025)



## Drones

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*Drones* is an international open access journal focusing on advancing research in drone science, policy, technology, and applications. Today, drones have become indispensable for policymakers, regulatory authorities, mapping agencies, start-ups, and established firms. Their expanding societal and economic relevance is reflected in the rapid development of new sensors, upgraded platforms, specialized software, and novel applications. The journal provides a central forum for scholars in drone research and applications to exchange findings and innovations. With growing demand for high-quality research, our Editorial Board comprises international leaders and experts across relevant scientific areas. We offer rigorous peer review and rapid publication of papers from across all areas of drone science. We welcome you to submit your next paper to *Drones* and to contribute to the continued advancement of and innovations in the field of drones.

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### Editor-in-Chief

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