



Advances in IoT and Wireless Networks of UAVs: State of the Art, Achievements and Perspectives

Guest Editors:

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Deadline for manuscript
submissions:

closed (25 September 2025)

Message from the Guest Editors

Dear Colleagues,

The role of unmanned aerial vehicles (UAVs) in next-generation wireless networks and the Internet of Things (IoT) has recently gained significant attention. This Special Issue aims to share the progress and efforts being made by researchers in UAV networks. Special emphasis is given to soliciting novel concepts and transformative design ideas that are emerging in this area which lie at the crossroads of wireless networking, robotic navigation, and sensing.

Authors are encouraged to submit original research papers and review articles on a wide range of topics including, but not limited to:

- Cellular connected UAVs;
- Connectivity for UAV corridors in aerial mobility;
- UAV-enabled Open Radio Access Networks (O-RANs) ;
- Localization and sensing with UAVs;
- Prototypes, testbeds, and experimental results;
- 3D radio mapping with UAVs;
- UAV energy-efficient trajectory planning;
- Machine learning for UAV-aided wireless networking ;
- Data harvesting with UAVs in IoT networks;
- UAV mesh networks.

We look forward to receiving your original research articles and reviews.





Editor-in-Chief

Prof. Dr. Diego González-Aguilera

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Message from the Editor-in-Chief

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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