

Special Issue

Advances in Detection, Security, and Communication for UAV: 2nd Edition

Message from the Guest Editors

We welcome the submission of original research papers on the most advanced technologies and applications related to detection, security, and communication for UAVs. Topics of interest include, but are not limited to, the following scope:

- New concept, theory, principle, and application of UAV system architecture;
- Cross-layer optimization for joint detection, security, and communication functions of UAV network;
- Advanced architecture and application of integrated sensing and communication (ISAC) for UAV;
- Endogenous security architecture and mechanism for UAV network;
- UAV enhanced dynamic network towards 6G;
- Artificial intelligence enhanced UAV networking;
- Multi-agent game and cooperation mechanism of UAVs;
- Modulation and coding for UAV communication;
- Semantic communication for UAV network;
- Covert communication for UAV;
- Physical secure communication for UAV;
- Interference management for UAV;
- Detection and data collection for UAV;
- UAV networking for space-air-ground integration;
- Emergency communication by UAV;
- Data collection by multi-UAV cooperation;
- Image processing of UAV inspection for power, forest, and ocean.

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About the Journal

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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