

Special Issue

Security-by-Design in UAVs: Enabling Intelligent Monitoring

Message from the Guest Editors

The goal of this Special Issue is to collect papers (original research articles and review papers) to give insights into how to bridge the gap between the Security-by-Design and practical UAV operations. This Special Issue will welcome manuscripts that link the following themes:

- Intelligent Obstacle Avoidance and Safe Navigation
- Battery Management and Communication Link Maintenance
- Data Security and Privacy Protection
- Precise Positioning and Relative Localization within Swarms
- Target Detection, Recognition and Tracking
- Autonomous Path Planning
- Safety-Guaranteed Cooperative Control
- Multi-UAV Formation and Swarm Security
- Applications in Public Safety and Critical Infrastructure Inspection
- Intelligent Perception and Cognitive Decision-Making for Complex Environments
- Emergent Intelligence and Adaptive Formations in UAV Swarms
- Cross-Domain Collaboration and Heterogeneous System Integration
- System Resilience and Safety Assurance for UAV
- Trustworthy Human-UAV Interaction and Levels of Autonomy

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

Guest Editors

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Prof. Dr. Lingling Lv

Deadline for manuscript submissions

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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.

Editor-in-Chief

Prof. Dr. Diego González-Aguilera

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