

Special Issue

Efficient UAS Trajectory and Path Planning

Message from the Guest Editors

Unmanned Aircraft Systems (UASs) have become an area of intense research within the robotics and control community. In recent years, swarms or networks of UASs are emerging as a disruptive technology of highly reconfigurable intelligent autonomous systems. The complexity of TPP scales up by considering the interfering behaviors of partners in a swarm when a collaborative mission is executed. This Special Issue welcomes manuscripts that link the following themes:

- Target search and tracking in complex environments;
- Navigation and exploration in GPS-denied environments;
- Autonomous decision-making for game and cooperation;
- Cooperative path planning and re-planning for homogeneous/nonhomogeneous UAS swarms;
- Learning-based and bio-inspired TPP for complex tasks;
- Distributed optimization and parallel decision-making;
- Fault-tolerant and robust TPP in disturbed and uncertain environments;
- System design and tests for resource-constrained embedded applications;
- Event-driven control strategies for silent and camouflaged UASs

Guest Editors

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Deadline for manuscript submissions

closed (31 December 2023)



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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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