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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Dr. Fubiao Zhang

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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 the only international open-access journal about the science, policy and technology of drones and its applications. Nowadays, the proliferation of drones is a reality for local policy makers, regulatory bodies, mapping authorities, startups and consolidated companies. There are many uses and benefits of drones: from the emergence of new sensors and the evolution of new platforms; to the development of specific software and the emergence of new applications. *Drones* publishes reviews, regular research papers, communications and short notes, without restriction on the length of papers. *Drones* seeks to provide a central forum for scholars engaged in drones' research and applications.
There is a need for high quality papers in this area and the *Drones* Editorial Board are widely recognized international leaders. *Drones* journal guarantees a serious peer review and a rapid publication across the whole discipline of drones.

Editor-in-Chief

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