

Special Issue

Mission Planning, Perception and Control for Drones in Wide-Area Operations

Message from the Guest Editors

This Special Issue, entitled Mission Planning, Perception, and Control for Drones in Wide-area Operations, aims to provide a scientific platform regarding the new trends in technologies for drones in wide-area operations, including mission planning technology, artificial intelligence, autonomous intelligent unmanned systems, and the combination of learning and control. Topics of interests include, but are not limited to, the following: 1) Motion control and path planning for wide-area operating drones; 2) Mission planning for wide-area operating drones; 3) Task decomposition and allocation for wide-area operating drones; 4) Simultaneous localization and mapping in a complex environment; 5) Vision recognition and detection; 6) Intelligent perception techniques; 7) Model-based predictive control for intelligent systems; 8) Robust control, sliding mode control, and adaptive control; 9) Deep learning and reinforcement learning; 10) Architecture for learning and control integration; 11) Advanced decision and control methods for unmanned systems; 12) Intelligent swarm and formation.

Guest Editors

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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

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