Special Issue

Path Planning, Trajectory Tracking and Guidance for UAVs

Message from the Guest Editors

Path planning, trajectory tracking, and guidance are essential aspects for the autonomous operations ofUnmanned Aerial Vehicles. These processes involve the determination of the optimal path, implementation of the planned path, and real-time adjustments to ensure accurate tracking and obstacle avoidance. Moreover, the implementation of planned paths while considering external factors such as wind and turbulence, along with real-time guidance adjustment, ensures UAV's safety and stability. Research in this area focuses on developing advanced algorithms and control systems that enable UAVs to operate autonomously and effectively in complex environments. This Special Issue aims to collect the latest research results for path planning, trajectory tracking and guidance of UAVs, which are fundamentally important for the autonomous operations of UAVs.

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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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