

Special Issue

Advances in Vision-Based UAV Navigation: Innovations and Applications

Message from the Guest Editors

This Special Issue focuses on the recent advancements and emerging trends in vision-based navigation for unmanned aerial vehicles (UAVs). We seek original research articles, review papers, and case studies that highlight theoretical developments, novel algorithms, sensor fusion techniques, and practical implementations that enhance the performance, robustness, and autonomy of UAVs. Topics of interest include, but are not limited to, visual simultaneous localization and mapping (VSLAM), real-time obstacle detection and avoidance, machine learning for environmental perception, sensor integration, and energy-efficient navigation. We also encourage submissions that explore the application of vision-based navigation in diverse fields such as urban environments, agriculture, surveillance, and disaster response.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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