

Special Issue

Sensors and Algorithms for Autonomous Navigation of Aircraft

Message from the Guest Editors

This Special Issue welcomes original research contributions and state-of-the-art reviews from academia and industry, regarding innovative technologies and algorithms aimed at improving autonomous navigation capabilities of future manned and unmanned aircraft. Contributions are welcomed either highlighting the role of new sensor systems, such as electro-optical, radar, LiDAR, inertial sensors, and magnetometers, or presenting new algorithms for raw data processing, state estimation, and robust environment perception also based on data fusion. The Special Issue topics include but are not limited to:

- multi-sensor data fusion for state estimation
- UAS navigation in challenging areas
- simultaneous localization and mapping
- autonomous take-off and landing
- sensor-based airborne object detection, tracking, and classification
- sensors and algorithms for sense and avoidance
- sensors and algorithms for cooperative and opportunistic navigation
- GNSS-resilient navigation and alternative positioning navigation and timing (A-PNT) architectures

Guest Editors

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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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