

Special Issue

Airborne Unmanned Sensor System for UAVs

Message from the Guest Editors

The proliferation of low-cost, lightweight, and power-efficient sensors, in combination with advances in networked systems, has enabled the use of multiple sensors in UAVs to accomplish different missions, including environmental monitoring, habitat monitoring, airborne target tracking, situation awareness, etc. These advances have permitted the use of multiple UAVs to cooperatively perform large-scale sensing tasks which would otherwise be difficult to accomplish by individually operating these sensing devices. This Special Issue aims to identify recent theoretical and technical advances in airborne unmanned sensor systems for UAVs. Related topics include, but are not limited to:

- Airborne target tracking in cluttered environments;
- Airborne target tracking in GPS-denied environments;
- Integrated tracking and searching in unknown environments;
- Distributed multi-sensor fusion;
- Sensor management and UAV trajectory optimization;
- Sensor bias calibration;
- Integrated target tracking and calibration;
- Scalable target(s) tracking algorithm;
- Applied artificial intelligence in target tracking.

Guest Editors

Prof. Dr. Hyo-Sang Shin

Autonomous and Intelligent Systems Group, Centre for Autonomous and Cyberphysical Systems, Cranfield University, Cranfield MK43 0AL, UK

Prof. Dr. Shaoming He

College of Aerospace, Beijing Institute of Technology, Beijing 100081, China

Deadline for manuscript submissions

closed (15 September 2024)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/171278

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)