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Airborne Unmanned Sensor System for UAVs

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

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Message from the Guest Editors

Dear Colleagues,

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.



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Special Issue



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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

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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Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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