

Special Issue

Multi-Sensor Fusion for Positioning and Navigation of Aerospace Vehicles

Message from the Guest Editors

Navigation and Positioning systems are essential to the autonomous operations of aerospace vehicles in a wide range of application scenarios. This Special Issue welcomes original research contributions and state-of-the-art reviews on innovative technologies and algorithms that aim to enhance the autonomous navigation capabilities of future aerospace vehicles by exploiting multi-sensor architectures. The scope of this Special Issue includes, but is not limited to, the following:

- Multi-sensor-based simultaneous localization and mapping (SLAM);
- Multi-sensor fusion for hazard map generation and landing site selection;
- Multi-sensor-based navigation for planetary landing;
- Multi-sensor-based relative navigation for close-proximity operations on orbit;
- Sensor fusion techniques for aerial vehicle navigation;
- Autonomous navigation in indoor and outdoor environments, etc.

For more information, please visit: mdpi.com/si/200788

Guest Editors

Dr. Roberto Opromolla

Department of Industrial Engineering, University of Naples Federico II,
Piazzale Tecchio 80, 80125 Naples, Italy

Dr. Flavia Causa

Department of Industrial Engineering, University of Naples Federico II,
Piazzale Tecchio 80, 80125 Naples, Italy

Deadline for manuscript submissions

30 September 2025



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/200788

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)