

## Special Issue

# Intelligent Aircraft-from Navigation to Control, from Fault Diagnosis to Prognostics

### Message from the Guest Editors

In recent decades, aircraft have witnessed tremendous improvements in terms of their geometric structure, flying mechanism, sensing and vision ability, aviation quality, path planning, intelligent behaviour and adaptability, working methodology, flying features, and navigation control. For space and aviation missions, optimization of flight conditions and safe operation is intrinsically related to guidance, navigation and control systems of the aircraft and includes sensors and actuators monitoring. For upcoming and future aircraft, how the early and robust diagnosis of some small and subtle faults contributes to the overall optimization of aircraft design has become a similar issue. Authors are invited to submit full research articles and review manuscripts addressing (but not limited to) the following topics: Aircraft fault sensing, test, and diagnosis; Aircraft fault prognostics; Intelligent monitoring for aircraft; Aircraft flight control; Aircraft navigation; Intelligent unmanned aerial vehicles; Air transportation networks; Guidance, navigation, and control; Aircraft safety engineering and maintenance; Big data for aircraft safety sensing.

---

### Guest Editors

Prof. Dr. Zhenbao Liu  
Prof. Dr. Hongfu Zuo  
Prof. Dr. Xiaoqian Sun

---

### Deadline for manuscript submissions

closed (20 October 2023)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/164930](https://mdpi.com/si/164930)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto: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  
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 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)