

Special Issue

Advances in Magnetic Sensors: Innovations, Challenges and Applications

Message from the Guest Editor

This Special Issue aims to synthesize original research and review articles on recent advances, technologies, solutions, and challenges in the field of magnetic sensors, with a focus on their various applications, such as magnetic anomaly detection, Earth magnetism navigation, biological magnetic measurement, and space magnetic measurement, among others. Potential topics include but are not limited to the following:

- New advances in magnetic sensors and systems;
- Aeromagnetic surveys and systems;
- Unmanned vehicles for magnetic surveys;
- Aeromagnetic anomaly sensing systems;
- Underwater magnetic anomaly sensing systems;
- Biological magnetic field measurement and its medical applications;
- Advanced magnetic sensor technology;
- Magnetic interference compensation technology;
- Advanced magnetic detection platforms;
- Magnetic data processing technology;
- Magnetic anomaly sensing technology based on artificial intelligence;
- New applications of magnetic anomaly sensing technology;
- AI techniques for magnetic sensing and measurement.

Guest Editor

Prof. Dr. Qi Han

Department of Computer Science and Engineering, Harbin Institute of Technology, Harbin, China

Deadline for manuscript submissions

15 October 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/238791

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

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)