

Special Issue

Advanced Sensing and Measurement Control Applications

Message from the Guest Editors

Highly integrated and multifunctional sensors have boosted the rapid growth in research and applications across various fields from machine failure detection, food quality control and pharmaceutical manufacture to human health monitoring. To achieve reliable, accurate and useful outcomes, however, requires advanced algorithms. Algorithms can be used in the display of information, and their calculations and compensations can be used to handle the vagaries of the sensors. It is the algorithm that turns sensor output into presentable information (displays) that is understandable to patients/users. The aim of this Special Issue is to illustrate recent achievements in sensing technique development and to present both measurement control applications and state-of-the-art algorithms, including deep/machine learning and artificial intelligence, in order to produce an effective, reliable and simple user interface. Articles involving an in-depth discussion of specific problems, such as a clinical/medical data analysis, will also be considered, as these are rarely published yet are important to indicate potential pitfalls to avoid and methods to compensate for them.

Guest Editors

Prof. Dr. Peter W. McCarthy

1. Faculty of Life Science and Education, University of South Wales, Treforest, Pontypridd CF37 1DL, UK
2. Faculty of Health Sciences, Durban University of Technology, Durban 1334, South Africa

Dr. Vincenzo Cascioli

Murdoch University Chiropractic Clinic, Perth, WA, Australia

Prof. Dr. Zhuofu Liu

The Higher Educational Key Laboratory for Measuring and Control Technology and Instrumentations of Heilongjiang Province, Harbin University of Science and Technology, Harbin 150080, China

Deadline for manuscript submissions

closed (30 October 2025)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/146981

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)