

Special Issue

Biomedical Electronics and Wearable Systems—2nd Edition

Message from the Guest Editor

Electronics has become a ubiquitous technology, with new functionalities emerging in all aspects of human life. Apart from smaller integration scales, dense packing, and wider operating characteristics, current electronic technologies allow for developing smarter, more precise, and more reliable systems that provide highly precise diagnostics, personalized therapies. This Special Issue aims to bring together a collection of both original research and review papers in the growing field of novel and innovative biomedical electronics and wearable systems, which show how biosciences and engineering are being used to improve biomedical research and technologies that will have an impact on future disease management. The topics to be addressed include, but are not limited to, non-invasive diagnostics, smart prosthetics and patient-specific devices connected to the neuromuscular system and on-chip processing for smart portable/implantable sensors, wearables for the acquisition of high-resolution biometric data (biological and physiologic signals, etc.), active VLSI implants, neural prostheses, nanomaterials, and tissue–electronic interfaces in implantable systems.

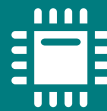
Guest Editor

Dr. José Machado da Silva

Institute for Systems and Computer Engineering, Technology and Science, Porto, Portugal

Deadline for manuscript submissions

31 July 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/227809

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 4.0
CiteScore 9.4
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)