

Special Issue

Sensors Technology and Application in ECG Signal Processing

Message from the Guest Editors

With the rapid development of mobile health and artificial intelligence technology, various advanced ECG sensors can provide convenient and effective means for collecting ECG signals under everyday natural conditions, and have become an important source of clinical ECG data. However, novel technologies and applications in ECG signal processing, such as mobile wearable ECG monitoring and analysis systems for medical applications, still face core challenges in terms of intelligent diagnosis accuracy, edge device energy efficiency, and clinical path matching, among others. The main topics for original research papers and reviews involved in this Special Issue will focus on sensors and their applications, including new methodologies, techniques, solutions, and potential applications in the field of ECG signal processing, that will stimulate continuing efforts to more effectively apply sensors or devices in monitoring ECG in everyday life or in signal analysis for medical purposes.

Guest Editors

Dr. Yun Pan

Dr. Wendong Xiao

Dr. Huaiyu Zhu

Dr. Zongmin Wang

Deadline for manuscript submissions

25 February 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/189413

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)