Special Issue

Advanced Sensors and Sensing Technologies in Biomedical Signal Acquisition and Processing

Message from the Guest Editors

Advanced sensing technology is becoming crucial in many medical devices, including wearable devices. The widespread presence of these biomedical sensors has resulted in a huge quantity of recorded data, and the opportunities for new applications, particularly in the field of healthcare and biometrics, are increasing. Machine learning and deep learning techniques, among others, have been shown to be extremely successful in these types of applications, including, for example, detecting abnormal heart activity, monitoring blood oxygen levels, or analyzing body acceleration and movement. The analysis of physiological signals as a diagnostic tool has become, therefore, very valuable in several research areas, as it helps improve quality of life as well as helps assess the health of the population. The goal of this Special Issue is to highlight the recent advances in sensors and sensing technologies for physiological signal recordings, and all of the signal processing methods that can be applied to these kinds of signals (such as electrocardiogram, electromyogram, electrodermal activity signals, etc.).

Guest Editors

Dr. Pamela Zontone

Polytechnic Department of Engineering and Architecture, University of Udine, Via Delle Scienze 206, 33100 Udine, Italy

Prof. Dr. Antonio Affanni

Polytechnic Department of Engineering and Architecture, University of Udine, Via Delle Scienze 206, 33100 Udine, Italy

Deadline for manuscript submissions

closed (20 November 2024)



Sensors

an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 7.3 Indexed in PubMed



mdpi.com/si/154863

Sensors MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 sensors@mdpi.com

mdpi.com/journal/ sensors





Sensors

an Open Access Journal by MDPI

Impact Factor 3.4 CiteScore 7.3 Indexed in PubMed



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 (Chemistry, Analytical) / CiteScore - Q1 (Instrumentation)

