Special Issue

Biomedical Sensors and Systems for Medical Applications

Message from the Guest Editors

Medical devices capable of sensing various biomedical signals have emerged as a new breakthrough in the future of healthcare. Through recording and in situ processing of the biosignals, these devices can offer uninterrupted health monitoring and timely, personalized, and/or medical interventions. The focus of this Special Issue is on recent advances in biomedical sensor developments and their interface electronic systems, which take the form of wearables, implants, and other various medical devices. Topics include but are not limited to:

- biomedical sensor developments in various modalities (electrochemical, kinetic, thermal, piezoelectric, photovoltaic, etc)
- sensor interface circuits and electronics
- biomedical signal processing hardware
- wearable and implantable systems utilizing biomedical sensors
- biomedical sensors in biomedical devices and its application

Guest Editors

Prof. Dr. Sohmyung Ha

 Department of Electrical and Computer Engineering, New York University Abu Dhabi, Abu Dhabi P.O. Box 129188, United Arab Emirates
 Tandon School of Engineering, New York University, New York, NY 10003. USA

Prof. Dr. Mario Muñoz Organero

Telecommunications Engineering, Carlos III University of Madrid, 28911 Leganes, Spain

Deadline for manuscript submissions

closed (20 April 2023)



Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/118262

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics





Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPlus / SciFinder, Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

