Special Issue

Design and Application of Biomedical Circuits and Systems

Message from the Guest Editors

The development of new sensing technologies, biomaterials, microelectronic devices, microfluidic systems and micro-electro-mechanical systems (MEMs), etc., opens the window to new biomedical circuit and system opportunities to measure “better”, and also using “alternative” methods, to find relevant information for physician and biologist teams, with applications such as diagnosis, therapy, clinical testing and bio-signal monitoring. This Special Issue is devoted mainly to incorporating proposals of bio-sensing signals based on new circuits and systems approaches. The main topics of interest include, but are not limited to:

- Analog front-end (AFE) circuits
- Circuits for bioimpedance testing
- Capacitive-based circuits
- Circuits for new sensing devices and microelectrodes
- ECG, EEG, EMG, EoG, etc., circuits and systems
- Circuits for implantable and wearable devices
- LP/LV circuits in biomedical environments
- Micro-energy harvesting
- Circuits and systems in clinical applications
- Circuits for cell, DNA, bacteria, virus, etc., assays
- Brain interfaces
- Internet of things for remote healthcare

Guest Editors

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Deadline for manuscript submissions

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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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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).