Special Issue

New Challenges in Biomedical Signal Processing: Computational Theory and Applications

Message from the Guest Editors

Throughout the years, different sensors for signal recording warrant different and specific signal treatment procedures, and reliable signal processing techniques are required for a number of different applications, such as movement analysis, biosignals interpretation, image processing, and inertial sensing. Further, the central role gained in the last few years by artificial intelligence techniques for biomedical purposes has even further enhanced the need for processing techniques suited to specific contexts, in order to derive significant signal features. The aim of this Special Issue is to present high-quality papers or critical reviews dealing with cutting-edge developments in biomedical signal processing, in addition to proposing significant applications in the field of clinically oriented devices for rehabilitation and diagnostic purposes. The topics of interest include, but are not limited to:

- Non-linear signal processing
- Filtering techniques
- Optimization techniques
- Bio-signals processing
- Big data analysis in biomedical applications
- Image processing
- Timeseries analysis
- Patterns recognition in biological data

Guest Editors

Dr. Alessandro Mengarelli

Department of Information Engineering, Università Politecnica delle Marche, via Brecce Bianche, 60131 Ancona, Italy

Dr. Federica Verdini

Department of Information Engineering, Università Politecnica delle Marche, Via Brecce Bianche, 60131 Ancona, Italy

Deadline for manuscript submissions

closed (15 May 2021)



Electronics

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/39946

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 guest-edited 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).

