Special Issue

Biosignal Processing

Message from the Guest Editor

The aim of this Special Issue is to advance new approaches to analyze 1D~3D datasets to reveal mechanisms of biological phenomena and identify indicators of diseased states. In particular, we want to highlight new approaches for bio-signal/bio-image analysis with an emphasis on the monitoring and early detection of diseases. Recent advances in artificial intelligence (AI) and machine learning (ML) have the potential to transform healthcare practices from the traditional "one-size-fits-all" to targeted and personalized treatments. AI approaches to medicine require new methods to manage and analyze large biomedical datasets, for example, genomic, X-ray/CT images, and dynamic multivariate physiological readouts including electrocardiographic, electroencephalographic and fMRI data. With this mission, we invite you to contribute original research papers or comprehensive reviews to this Special Issue on Biosignal Processing. Your contributions will help to improve and advance methodologies to process and analyze libraries of biomedical data that will generate new opportunities in AI to develop approaches and solutions to important medical and biological problems.

Guest Editor

Prof. Dr. Yuling Yan

School of Engineering, Santa Clara University, Santa Clara, CA 95053, USA

Deadline for manuscript submissions

closed (30 November 2018)

About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie
Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Engineering, Biomedical) Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.