

Special Issue

Machine Learning-Driven Innovations in Biomedical Signal and Image Processing

Message from the Guest Editors

We are excited to announce a Special Issue focused on the latest advancements in signal and image processing for biomedical sensing. The integration of AI has significantly enhanced our capabilities, enabling robust data models and high performance even with limited data.

Despite significant progress, many challenges remain as the application landscape continues to expand. Key areas for improvement include data collection, feature extraction, model selection, and explainability. The potential to improve disease detection and enhance therapies makes this an exciting research area.

We invite authors to submit innovative research addressing these challenges in clinical, biomedical research, and human-machine interfacing applications. Relevant data sources include EEG, EMG, ECG, MRI, CT, optical imaging, and wearable data.

Guest Editors

Dr. Luis Coelho
Prof. Dr. João Paulo Ramos Teixeira
Prof. Dr. João Paulo Pereira do Carmo

Deadline for manuscript submissions

closed (15 November 2025)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/224595

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

[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)





Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)



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, CAPIus / 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 17 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).