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

15 November 2025

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

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