

## 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.

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### Guest Editors

Dr. Luis Coelho

Prof. Dr. João Paulo Ramos Teixeira

Prof. Dr. João Paulo Pereira do Carmo

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### Deadline for manuscript submissions

15 November 2025



**Bioengineering**

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*Bioengineering*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[bioengineering@mdpi.com](mailto:bioengineering@mdpi.com)

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### Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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