

Special Issue

AI-Based Biomedical Signal Processing

Message from the Guest Editors

This Special Issue on AI-Based Biomedical Signal Processing is dedicated to showcasing state-of-the-art research in deep neural networks (DNNs) of all kinds, including recurrent long-short term memory (LSTM), graph-based, transformer, autoencoder, convolutional, and generative neural networks, applied to the analysis of biomedical signals of all kinds. These signals can span physiological measurements such as electroencephalography (EEG) and electrocardiography (ECG) through kinematics and dynamics measurements, including accelerometry and vision, image, and speech-based biomedical applications. This Special Issue also endorses novel recruitment of high-throughput hardware platforms such as field-programmable gate arrays (FPGAs) and emerging AI processors, particularly supporting real-time processing. It also encourages submissions on new DNN architectures with limited exposure within the biomedical landscape. Finally, this Special Issue also elicits submissions on simulation-based biomedical sensing and device development.

Guest Editors

Dr. Michel Audette

Prof. Dr. Jerzy W. Rozenblit

Dr. Christopher P. Paolini

Deadline for manuscript submissions

30 November 2025

01010
01010
01010

Information

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 6.5



mdpi.com/si/231456

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

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



01010
01010
01010

Information

an Open Access Journal
by MDPI

Impact Factor 2.9
CiteScore 6.5



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



About the Journal

Message from the Editor-in-Chief

The concept of *Information* is to disseminate scientific results achieved via experiments and theoretical results in depth. It is very important to enable researchers and practitioners to learn new technology and findings that enable development in the applied field.

Information is an online open access journal of information science and technology, data, knowledge and communication. It publishes reviews, regular research papers and short communications. We invite high quality work, and our review and publication processing is very efficient.

Editor-in-Chief

Prof. Dr. Willy Susilo

School of Computer Science and Software Engineering, University of Wollongong, Northfields Avenue, Wollongong, NSW 2522, Australia

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei Compendex, dblp, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Information Systems) /
CiteScore - Q2 (Information Systems)