

## Special Issue

# Deep Learning in Biomedical Signal Analysis

### Message from the Guest Editor

This Special Issue focuses on the application and advancements of deep learning techniques in the field of biomedical signal processing. With the explosive growth of biomedical data and the complexity of biological systems, traditional signal processing methods are often insufficient to extract meaningful insights from these data. Deep learning, as a powerful tool for automatic feature learning and pattern recognition, has demonstrated remarkable performance in analyzing biomedical signals such as electrocardiograms, electroencephalograms, and biosensor data. This Special Issue aims to showcase the latest research on how deep learning can be applied to address challenges in biomedical signal analysis, disease diagnosis, and patient monitoring. Contributions from various domains, including signal processing, machine learning, computer vision, and healthcare, will be welcome to explore the full potential of deep learning in transforming biomedical signal research.

### Guest Editor

Dr. Takahiro Emoto

Graduate School of Sciences and Technology, Tokushima University,  
Tokushima, Japan

### Deadline for manuscript submissions

31 August 2025



## Diagnostics

an Open Access Journal  
by MDPI

Impact Factor 3.3  
CiteScore 5.9  
Indexed in PubMed



[mdpi.com/si/207308](https://mdpi.com/si/207308)

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

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





# Diagnostics

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 5.9  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* 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. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Prof. Dr. Andreas Kjaer  
Department of Clinical Physiology, Nuclear Medicine & PET National  
University Hospital, Rigshospitalet, University of Copenhagen,  
Blegdamsvej 9, DK-2100 Copenhagen, Denmark

---

### Author Benefits

#### High Visibility:

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

#### Journal Rank:

JCR - Q1 (Medicine, General and Internal) / CiteScore - Q2 (Internal Medicine)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).