



## Machine Learning in Signal and Image Analysis for Biomedical Application

Guest Editors:

**Dr. Azhar Zam**

Division of Engineering, NYU Abu Dhabi and Tandon School of Engineering, New York University, New York, NY, USA

**Dr. Esa Prakasa**

Research Center for Data and Information Sciences, The National Research and Innovation Agency (BRIN), Bandung, West Java, Indonesia

Deadline for manuscript submissions:

**closed (31 July 2023)**

### Message from the Guest Editors

The goal of this Special Issue is to publish original manuscripts and the latest research regarding machine learning techniques that can be used for sensing or imaging in biomedical applications and predicting diagnosis or prognosis from medical images or signals. We welcome submissions describing new cutting-edge machine learning and deep learning methods that address existing problems in the biomedical and health fields.

Topics of interest include but are not limited to:

- Machine learning algorithms for medical image analysis;
- Disease classification and prognosis prediction;
- Segmentation and anomaly detection;
- Medical image denoising and quality improvement;
- Medical image registration;
- Image and signal processing for therapy monitoring;
- Big or multi-modality data processing for predicting clinical outcomes;
- Medical image quality assessment;
- Assessment of the disease severity level based on image analysis.





an Open Access Journal by MDPI

## 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

## 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.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [Embase](#), [Inspec](#), [CAPlus / SciFinder](#), and [other databases](#).

**Journal Rank:** JCR - Q1 (Medicine, General and Internal) / CiteScore - Q2 (Internal Medicine)

## Contact Us

*Diagnostics* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/diagnostics](http://mdpi.com/journal/diagnostics)  
[diagnostics@mdpi.com](mailto:diagnostics@mdpi.com)  
[X@diagnostic\\_mdpi](#)