Special Issue

Artificial Intelligence in Biomedical Signal and Imaging Processing

Message from the Guest Editor

This Special Issue aims to showcase the latest research and developments in applying artificial intelligence (AI) to biomedical challenges, with an emphasis on innovative methodologies and transformative applications. We welcome contributions on a wide range of topics, including, but not limited to, the following: supervised, unsupervised, and self-supervised learning techniques; generative AI methods such as Generative Adversarial Networks (GANs) and diffusion models for data augmentation, image synthesis, and anomaly detection; advanced machine learning approaches for medical image reconstruction, segmentation, and classification; and novel signal processing techniques for analyzing physiological and biomedical data. This Special Issue also seeks to highlight the integration of AI in clinical workflows, personalized medicine, and healthcare innovation. Researchers, practitioners, and industry experts are encouraged to submit original research, reviews, and thought-provoking insights that address both challenges and future directions in this rapidly evolving field.

Guest Editor

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Deadline for manuscript submissions

30 September 2025

Diagnostics

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 5.9
Indexed in PubMed

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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.

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