Special Issue

Medical Image Analysis and Machine Learning

Message from the Guest Editors

Medical image analysis, when combined with machine learning, has transformed the landscape of diagnostic medicine by enabling more accurate, efficient, and early disease detection. Despite the growing prevalence of machine learning applications in medicine, there remains a significant gap in translating algorithmic advances into clinically viable tools that can assist healthcare professionals across various specialties. This Special Issue of *Diagnostics* aims to attract cutting-edge contributions that demonstrate novel methodologies, robust validation frameworks, and real-world applications of machine learning and deep learning in medical image interpretation. This Special Issue will explore all aspects of image-based diagnostics, including classical computer vision techniques, convolutional neural networks (CNNs), transformers, radiomics, and multimodal fusion strategies. We also welcome research focusing on longitudinal analysis, transfer learning for low-resource settings, privacy-preserving models, explainable AI (XAI), and the integration of imaging biomarkers with genomics or electronic health records.

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Deadline for manuscript submissions

21 April 2026

Diagnostics

Diagnostics

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 5.9
Indexed in PubMed

mdpi.com/journal/
diagnostics

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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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