Special Issue

Artificial Intelligence in Diagnostics: From Algorithms to Clinical Impact

Message from the Guest Editors

This Special Issue invites high-quality contributions that explore the latest AI and machine learning methodologies, with a strong emphasis on real-world clinical deployment and translational relevance. We especially welcome interdisciplinary work that integrates diverse data modalities, emphasizes transparency and fairness, and tackles the challenges of validation and implementation in clinical settings. **Topics of interest include, but are not limited to, the following:**

- Disease diagnosis, prognosis, and risk prediction using AI;
- Multimodal learning from clinical, imaging, and genomic data;
- Self-supervised learning and foundation models in diagnostics;
- Generative AI for medical data synthesis and augmentation;
- Deep learning applications in medical imaging, histopathology, and biosignals;
- Natural language processing for electronic health records (EHRs), clinical notes, and patient communication;
- Explainability, fairness, and trust in clinical AI systems;
- Federated learning and privacy-preserving diagnostic AI;
- Benchmarking, validation, and regulatory frameworks for AI in medicine.

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Deadline for manuscript submissions

31 March 2026

Diagnostics

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 5.9
Indexed in PubMed

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

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