

Special Issue

Advancing Clinical Diagnosis with Artificial Intelligence: Applications, Challenges, and Future Directions

Message from the Guest Editors

In recent years, we have witnessed a rapid growth in generative artificial intelligence (AI) technologies and their clinical applications. Large language models (LLMs) have been applied in different aspects of modern medical science. These advanced AI-enhanced technologies are reshaping the landscape of modern diagnosis, enabling the early screening of accurate diagnosis of acute and chronic diseases. Meanwhile, data protection, privacy, and other ethics issues are emerging in this new era, with efforts in regulatory and technical aspects, including cryptography, biometrics, watermarking, and Blockchain-based security techniques. The aim of this Special Issue entitled “Advancing Clinical Diagnosis with Artificial Intelligence: Applications, Challenges, and Future Directions” is to share information on cutting-edge AI technologies and multimodal medical data analysis. The scope of this Special Issue will include studies on LLMs, AI-enhanced multimodal medical data analysis, IoMT, as well as data security in AI-enhanced diagnostics.

Guest Editors

Dr. Haipeng Liu

Dr. Rajesh K. Tripathy

Dr. Shonak Bansal

Dr. Prince Jain

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/si/225977

Diagnostics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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).