

Special Issue

Artificial Intelligence Approaches for Medical Diagnostics in the USA

Message from the Guest Editors

The integration of Artificial Intelligence (AI) into medical diagnostics has revolutionized healthcare in the United States, enhancing the accuracy, efficiency, and accessibility of diagnostic procedures. This Special Issue aims to highlight the latest advancements and research on the application of AI technologies to improve medical imaging diagnostic procedures. The focus includes cutting-edge AI applications in medical image computing, with particular emphasis on advancements in image segmentation, image registration, and quality enhancement. Additional topics include methodologies for artifact reduction, radiomics-based predictive analytics, and novel image reconstruction techniques. By highlighting these innovations, this issue underscores how AI is reshaping the diagnostic landscape in the USA, advancing precision diagnosis and fostering patient-centric care. Contributions are encouraged from multidisciplinary teams, including expertise in medical physics, computer science, and clinical practice, to accelerate the translation of AI innovations into clinical settings for patient care.

Guest Editors

Dr. Jinzhong Yang

Department of Radiation Physics, Division of Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA

Dr. Yao Zhao

Department of Radiation Physics, Division of Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA

Deadline for manuscript submissions

31 August 2025



Diagnostics

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 5.9
Indexed in PubMed



mdpi.com/si/227642

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).