

Special Issue

Artificial Intelligence in Magnetic Resonance Imaging(MRI)

Message from the Guest Editor

Due to the intrinsic nature of medical imaging data, AI is intensively employed in this field in recent years, and it is becoming increasingly prevalent especially in Magnetic Resonance Imaging (MRI) since the large quantitative nature of MRI data can be efficiently reconstructed and transformed into mineable qualitative clinical information using AI. These ML approaches can be utilized for registration, segmentation, and classification of medical images aiding in detection and prediction, in image optimization with faster imaging procedures with augmented workflows and reduction of artifacts, as well as in the combination of genomics and radiogenomics pushing the boundaries of conventional imaging thus revolutionizing MRI. Hence, the goal of this special issue is to address the above-mentioned opportunities and challenges and to present a comprehensive overview of the latest AI advances, compiling an update of the state-of-the-art efforts in MR Imaging acquisition, processing, and clinical applications.

Guest Editor

Dr. Ioannis M. Tsougos

1. Medical Physics Department, Faculty of Medicine, School of Health Sciences, University of Thessaly, Larissa, Greece
2. Visiting Senior Researcher, Department of Neuroimaging, IOPPN King's College, London, UK

Deadline for manuscript submissions

closed (31 December 2023)



Diagnostics

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 4.7
Indexed in PubMed



mdpi.com/si/177537

Diagnostics
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 3.0
CiteScore 4.7
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 20.3 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2024).