



Artificial Intelligence in Medical Images: New Challenges and Future Perspectives

Guest Editors:

Prof. Dr. Manuel Graña

Computational Intelligence
Group, Computer Science
Faculty, University of the Basque
Country, UPV/EHU, 20018 San
Sebastián, Spain

**Prof. Dr. Carlos M. Chiesa-
Estomba**

Department of
Otorhinolaryngology-Head and
Neck Surgery, Hospital
Universitario Donostia, San
Sebastian, Spain

Deadline for manuscript
submissions:

closed (31 March 2024)

Message from the Guest Editors

Artificial Intelligence (AI) has been increasingly used in medical imaging to improve diagnostic accuracy, reduce interpretation time, and enhance patient outcomes. AI algorithms can analyze medical images such as X-rays, CT scans, MRI scans, and ultrasound images, as well as provide valuable insights for clinicians. The main applications of AI in medical imaging are image analysis, image segmentation, and image registration.

The use of AI in medical imaging has the potential to improve patient outcomes by providing more accurate and timely diagnoses, guiding treatment decisions, and reducing the burden on clinicians. However, there are also challenges associated with implementing AI in clinical practice, such as ensuring the accuracy and reliability of the algorithms and addressing issues related to data privacy and security.

This Special Issue will explore, but is not restricted to, the following topics:

- Machine learning algorithms for medical image analysis;
- Use of AI in pathology and histology for image analysis;
- Applications of AI in radiology and diagnostic imaging.





an Open Access Journal by MDPI

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

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.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [PMC](#), [Embase](#), [Inspec](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Medicine, General & Internal*)

Contact Us

Diagnostics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/diagnostics
diagnostics@mdpi.com
[X@diagnostic_mdpi](#)