

Special Issue

Medical Image Enhancement and Quantitative Evaluation

Message from the Guest Editor

Medical image quality enhancement plays a crucial role in achieving accurate diagnosis. Along with conventional image processing algorithms, artificial intelligence (AI) technologies based on deep learning and machine learning have recently been widely adopted for improving the quality of medical images. In addition, the quantitative evaluation of image quality enhancement is of great importance, and researchers have employed various parameters and metrics for this purpose. In particular, the quality of medical images is closely related to radiation dose and therefore they should be considered together. This Special Issue aims to present new insights into image processing technologies for major diagnostic medical imaging modalities, including general X-ray, computed tomography (CT), magnetic resonance imaging (MRI), and ultrasound imaging. Furthermore, this Special Issue aims to address not only advanced image enhancement techniques but also their connection to quantitative evaluation methods for assessing image quality improvement.

Guest Editor

Prof. Dr. Youngjin Lee

Department of Radiological Science, Gachon University, 191, Hambakmoe-ro, Yeonsu-gu, Incheon, Republic of Korea

Deadline for manuscript submissions

30 April 2027



Diagnostics

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 5.9
Indexed in PubMed



mdpi.com/si/280589

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 21.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).