Special Issue

Deep Learning-Based Models for Medical Imaging Diagnosis

Message from the Guest Editor

The principles of Deep Learning (DL) and its significance in medical diagnostic imaging are explained in Deep Learning Models for Medical Imaging using two distinct practical examples: (1) cytology image processing and (2) disease screening, prediction, and decision making. Both research studies used public datasets in their corresponding experimental studies; Custom CNN, OptiCNN, CovNet, ResNet, AlexNet, GoogleNet, InceptionNet, LeNet, and DenseNet are a few of the DL models that were employed. The outcomes include both "with" and "without" transfer learning, data augmentation, composite networks, and other optimization techniques. DL models for diagnostic imaging are accessible to a wide audience, from students commencing their academic careers to seasoned researchers and scientists in academia and industry. With a focus on case studies in medical information and image processing, this Special Issue aims to establish the foundation for DL applications, discuss various DL-based diagnostics applications with a focus on personalized treatments, and provide a summary of the frameworks for a wider integration of various methodologies in clinical practice.

Guest Editor

Dr. Mohammad Khishe

Department of Electronic Engineering, Imam Khomeini Marine Science University of Nowshahr, Nowshahr 16846-13114, Iran

Deadline for manuscript submissions

closed (30 June 2023)

Diagnostics

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 5.9
Indexed in PubMed

mdpi.com/si/158155

Diagnostics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
diagnostics@mdpi.com

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

MDPI

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, CAPlus / 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).