Special Issue

Application of Deep Learning in Medical Diagnosis

Message from the Guest Editors

The application of deep learning in medical diagnostics is revolutionizing the field of medicine. The interventions of deep learning and artificial intelligence provide new possibilities for accelerating medical diagnosis. As hardware and algorithms continue to advance, researchers are better able to understand and predict a patient's condition and link medical images to disease features. Deep learning has shown great potential in the interpretation of medical images, such as in foci segmentation, cancer detection, disease classification, and so on. Developments in this field are pushing medical science to new heights to provide better medical care for patients. The range of research topics may include, but are not limited to: Medical image processing; Focus segmentation based on medical images; Lesion target detection based on medical images; Classification of lesion grade and category in medical images; Natural language processing and knowledge discovery in medical documentation; Biomedical image reconstruction; Automatic/computer-aided diagnosis based on deep learning.

Guest Editors

Prof. Dr. Zhanlin Ji

1. Hebei Key Laboratory of Industrial Intelligent Perception, North China University of Science and Technology, Tangshan 063210, China
2. Telecommunications Research Centre (TRC), University of Limerick, V94 T9PX Limerick, Ireland

Dr. Li Zhao

The Speech and Language Technology Team (CSLT) of the National Research Center for Information Science and Technology in Beijing, Tsinghua University, Beijing, China

Deadline for manuscript submissions

closed (31 May 2025)

About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* 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. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie
Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Biomedical) Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.