

Special Issue

Medical Artificial Intelligence and Data Analysis

Message from the Guest Editors

Artificial intelligence (AI) technology has been widely used in medical image processing to screen clinical lesions. The classification, segmentation, and location of clinical lesions using medical images represent major tasks for deep learning. In addition, medical image registration based on deep learning constitutes an important research direction. This Special Issue entitled “Medical Artificial Intelligence and Data Analysis” aims to highlight the most recent advances in the field of deep learning for medical image processing. We invite authors to submit original research articles and review articles that focus on the following topics: 1. Advanced deep-learning methods for medical image classification, segmentation, and registration; 2. Lesion identification and localization in medical images; 3. Deep learning in multimodal medical data; 4. The interpretability of deep learning for medical images; 5. Deep learning in unbalanced samples for medical images; 6. Efficient annotation of medical images for deep learning; 7. Small-sample learning for medical images; 8. Quality control stress test for deep learning in medical images.

Guest Editors

Dr. Ujjwal Baid

The Wallace H. Coulter Department of Biomedical Engineering, Georgia Tech and Emory University, Atlanta, GA, USA

Dr. Bhakti Baheti

The Wallace H. Coulter Department of Biomedical Engineering, Georgia Tech and Emory University, Atlanta, GA, USA

Deadline for manuscript submissions

31 December 2025



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/203590

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

[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)





Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)



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, CAPIus / 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.