

Special Issue

Biomedical Application of Big Data and Artificial Intelligence

Message from the Guest Editors

Big data is pervasive and innately interdisciplinary, and its primary research subject does not only relate to the amount of data but also to how to develop effective and efficient analytics methods and algorithms for knowledge discovery. Artificial intelligence is one of the new methodologies to advance data science, data mining, and medical and health informatics using the theory and methodology of big data. Big data and artificial intelligence provide more research opportunities in biomedical practices and applications. This Special Issue provides a framework to discuss and study biomedical applications from the perspectives of big data and artificial intelligence. We invite researchers to contribute comprehensive reviews, case studies, and research articles in the field of theoretical and methodological interdisciplinary big data and artificial intelligence for biomedical applications. In particular, artificial intelligence and big data technologies specifically devised, adapted, or tailored to address problems in biomedical applications that were demonstrated to be particularly effective at being solved by artificial intelligence and big data technologies are welcome.

Guest Editors

Dr. Yan Pei

School of Computer Science and Engineering, The University of Aizu, Aizuwakamatsu 965-8580, Japan

Dr. Jijiang Yang

Tsinghua National Laboratory for Information Science and Technology, Tsinghua University, Beijing 100084, China

Deadline for manuscript submissions

closed (31 May 2024)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/138840

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.