

Special Issue

VR/AR Applications in Biomedical Imaging

Message from the Guest Editors

This Special Issue on “Virtual Reality/Augmented Reality Applications in Modern Medicine” will focus on original research papers and comprehensive reviews of cutting-edge techniques for virtual reality/augmented reality applications in surgical simulation, planning and navigation. Topics of interest for this Special Issue include, but are not limited to:

- VR/AR techniques to aid in surgical simulation, planning, strategy and navigation;
- VR/AR techniques to aid in rehabilitation;
- VR/AR techniques to aid in surgical robot;
- VR/AR applications in treatment of psychological diseases;
- VR/AR applications in pain relief;
- VR/AR applications in medical training.

Overall, this Special Issue in *Bioengineering* will highlight recent advances in VR/AR applications in the context of biomedical applications, ranging from fundamental science discoveries and novel technique developments to new application scenarios. The collection of these papers will cover cutting-edge research activities in this booming multidisciplinary area.

Guest Editors

Prof. Dr. Junjun Pan

State Key Laboratory of Virtual Reality Technology and Systems, Beijing Advanced Innovation Center for Biomedical Engineering, Beihang University, Beijing 100191, China

Prof. Dr. Xiaosong Yang

National Centre for Computer Animation, Faculty of Media and Communication, Bournemouth University, Poole, UK

Deadline for manuscript submissions

closed (15 October 2023)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/164178

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.