

Special Issue

Applications of Artificial Intelligence in Biomedical Image Processing

Message from the Guest Editors

Biomedical image processing is an interdisciplinary area that is important for the screening, assessment, diagnosis, and tracking of disease progression, and for evaluating the effectiveness of interventions. The significance of biomedical image processing lies in its role in facilitating clinical decisions, and therefore saving lives and reducing suffering. The development of computer-aided diagnosis substantiated by different artificial intelligence approaches further supports clinicians in the automatic detection or segmentation of lesions, computerized extraction of quantitative measurements, interpretation of medical images, and predictions. With the big data of multimodal imaging modalities, the applications of artificial intelligence (machine learning, deep learning, neural networks, image fusion, etc.) are becoming increasingly important and popular. This Special Issue invites original research and review articles on the development and advancement of artificial intelligence approaches, techniques, and models applied in the field of biomedical image processing.

Guest Editors

Dr. James Chung-Wai Cheung

Department of Biomedical Engineering, Faculty of Engineering, The Hong Kong Polytechnic University, Hong Kong 999077, China

Prof. Dr. Yanping Huang

School of Physics and Optoelectronic Engineering, Foshan University, Foshan 528011, China

Deadline for manuscript submissions

31 December 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/152367

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

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





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



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



About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).