

Special Issue

Advances in Image-Based Decision Support Systems for Personalized Healthcare and Computational Biology

Message from the Guest Editors

Advancements in imaging technologies have revolutionized the landscape of healthcare and computational biology. The integration of cutting-edge methodologies, such as machine learning and foundation modelling, with biomedical imaging data holds tremendous potential for shaping the future of healthcare, offering improved diagnostics, and advancing personalized medicine. This Special Issue welcomes original research papers, reviews, and case studies addressing a wide range of topics related to image processing and analysis in computational biology, healthcare, and medicine. Topics of interest include, but are not limited to: biomedical imaging radiology and optical imaging multimodal imaging multi-omics data fusion tomographic reconstruction image analysis for personalised medicine image analysis for computer aided diagnosis This Special Issue aims to bring together the latest research in diverse areas of image-based decision support systems that have transformative potential in improving patient care, diagnosis, and personalized medicine.

Guest Editors

Prof. Dr. Ivan Štajduhar

Faculty of Engineering, University of Rijeka, Vukovarska ulica 58, Rijeka, 51000, Croatia

Prof. Dr. Matija Milanic

Faculty of Mathematics and Physics, University of Ljubljana, Jadranska ulica 19, 1000 Ljubljana, Slovenia

Deadline for manuscript submissions

31 December 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/181723

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).