

Special Issue

Advances in Multimodal Machine Learning in Medical Research

Message from the Guest Editor

This Special Issue aims to showcase advances in multimodal machine learning (ML) in medical research, with a strong emphasis on the development of novel mathematical models, sophisticated algorithms, and theoretical frameworks. We invite contributions focusing on cutting-edge methods such as multimodal transformers, multimodal deep Boltzmann machines, and other advanced mathematical models for data integration. Special attention will be given to innovative approaches in fusion strategies (e.g., early, intermediate, late, and hybrid fusion), efficient optimization algorithms, and robust handling of missing modalities. Applications may include the deep learning fusion of medical imaging, genomic data, electronic health records, and other heterogeneous data sources, with a focus on both theoretical contributions and empirical validations.

Guest Editor

Dr. Joanna Dipnall

1. School of Public Health and Preventive Medicine, Monash University, Melbourne 3004, Australia
2. School of Medicine, Deakin University, Geelong, VIC 3220, Australia

Deadline for manuscript submissions

20 August 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/222556

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).