

Special Issue

Advances in Machine Learning and Intelligent Systems

Message from the Guest Editors

Machine learning (ML) and intelligent systems have become foundational to modern science and engineering, driving breakthroughs in perception, prediction, optimization, and autonomous decision-making. This Special Issue aims to bring together cutting-edge research and comprehensive reviews on emerging theories, algorithms, and applications of ML and intelligent systems. We particularly welcome studies that explore the intersection of deep learning, reinforcement learning, and hybrid physics-informed or knowledge-guided models, as well as their applications in smart infrastructure, robotics, healthcare, and industrial systems. Contributions advancing the mathematical foundations, convergence analysis, and computational efficiency of intelligent algorithms are also encouraged. **Relevant topics include (but are not limited to) the following:**

- Physics-informed and hybrid learning frameworks;
- Reinforcement and transfer learning for decision systems;
- Intelligent sensing, prognostics, and digital twins;
- Edge/federated AI and trustworthy intelligent systems;
- Optimization, control, and human-AI collaboration;
- Generative and self-evolving autonomous systems.

Guest Editors

Dr. Salman Khalid

Department of Civil and Environmental Engineering, University of Michigan, Ann Arbor, MI 48109, USA

Dr. Aydin Azizi

School of Engineering, Computing and Mathematics, Oxford Brookes University, Headington Campus, Oxford OX3 0BP, UK

Deadline for manuscript submissions

31 August 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/262733

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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).