



Recent Advances in Artificial Intelligence and Machine Learning

Guest Editors:

Dr. Liang Zou

School of Information and Control Engineering, China University of Mining and Technology, Xuzhou 221116, China

Dr. Liang Zhao

School of Software Technology, Dalian University of Technology, Dalian 116024, China

Dr. Yonghui Xu

Joint NTU-UBC Research Centre of Excellence in Active Living for the Elderly (LILY), Nanyang Technological University, 639798, Singapore

Deadline for manuscript submissions:

closed (30 November 2023)

Message from the Guest Editors

Dear Colleagues,

With the rapid development of artificial intelligence (AI) and machine learning (ML), various intelligent models have been developed to solve practical problems in every imaginable domain. However, the implementation of AI and ML technologies faces several challenges, such as limited labeled samples, class imbalance, privacy issues, and model interpretability.

This Special Issue focuses on state-of-the-art research related to the development and application of AI and ML technologies to enhance people's lives. Topics of interest include but are not limited to:

- 1) The applications of artificial intelligence and machine learning models in various domains;
- 2) Novel AI and ML methods and algorithms;
- 3) Interpretable artificial intelligence and machine learning for big data understanding;
- 4) Artificial intelligence and machine learning for computer vision;
- 5) Deep learning artificial intelligence and machine learning for intelligent speech;
- 6) Artificial intelligence and machine learning for natural language processing.
- 7) Deepfake and anti-spoofing techniques.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and
Informatics, De Montfort
University, The Gateway,
Leicester LE1 9BH, UK

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

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

Journal Rank: JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Contact Us

Mathematics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/mathematics
mathematics@mdpi.com
[X@MathematicsMDPI](https://twitter.com/MathematicsMDPI)