



Application of Mathematical Methods in Artificial Intelligence

Guest Editors:

Prof. Dr. Ovanes Petrosian

Faculty of Applied Mathematics
and Control Processes, Saint-
Petersburg State University/Saint
Petersburg Electrotechnical
University, Saint-Petersburg,
Russia

Prof. Dr. Witold Pedrycz

Department of Electrical and
Computer Engineering, University
of Alberta, Edmonton, AB T6G
2E1, Canada

Deadline for manuscript
submissions:

closed (31 July 2023)

Message from the Guest Editors

The current Special Issue is devoted to the Application of Mathematical Methods in Artificial Intelligence. The explosion of data and computational power has been a key determinant in the development of Artificial Intelligence (AI), including machine learning and, especially, deep learning, in recent years. AI methods have become increasingly popular as a methodological tool to understand complex data and offer intelligent processing to help people to save time and effort. The topic of this Special Issue is very wide and covers the new fundamental methods in artificial intelligence and related fields, as well as the various applications of artificial intelligence to the different applied areas, such as medicine and engineering. Topics of interest include but are not limited to:

Machine learning theory and applications;

Deep learning and applications;

Explainable AI;

Data mining approaches;

Knowledge-based systems;

Expert system.





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, St. Alban-Anlage 66
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)