

Special Issue

Application and Perspectives of Neural Networks

Message from the Guest Editor

Neural networks have revolutionized the way complex data is modeled, interpreted, and acted upon across a vast array of disciplines. From early perceptrons to today's deep and spiking architectures, advances in network design, training algorithms, and interpretability methods have unlocked new capabilities in image recognition, language understanding, time series forecasting, and control. At the same time, emerging application domains—edge and IoT systems, cybersecurity, cyber-physical infrastructures, industrial automation, and financial services—pose stringent constraints on latency, power, security, and explainability. Addressing these challenges requires novel lightweight architectures, on-device learning strategies, and robust, privacy-preserving deployments. This Special Issue will convene state-of-the-art research that both advances neural network theory and demonstrates high-impact applications in constrained, security-sensitive, and industrially relevant settings.

Guest Editor

Dr. Ali Mehrabi

School of Engineering, Design and Built Environment, Western Sydney University, Penrith, NSW 2751, Australia

Deadline for manuscript submissions

31 August 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/242152

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).