

# Special Issue

## Application of Neural Networks and Deep Learning

### Message from the Guest Editors

The neural network is a computational model based on the structure and function of a biological nervous system, capable of recognizing patterns and regularities through learning. Deep learning is a neural network-based machine learning technique that uses multiple layers of nonlinear transformations to learn high-level representations to implement tasks such as classification, regression, and generation. Recently, the application of neural networks and deep learning has been realized in both academic and industrial perspectives. This Special Issue, entitled “Application of Neural Networks and Deep Learning”. This Special Issue aims to serve as a forum for exchanging ideas and knowledge among researchers and practitioners worldwide, inspiring new research directions and applications in this field. Both original research articles and review papers are welcome for submission to this Special Issue. Topics might include but are not limited to the following:

- Fuzzy neural network control;
- Intelligent control;
- Reinforcement learning;
- Deep learning.

### Guest Editors

Dr. Yundi Chu

College of Artificial Intelligence and Automation, Hohai University, Nanjing 210098, China

Dr. Shixi Hou

College of Artificial Intelligence and Automation, Hohai University, Nanjing 210098, China

### Deadline for manuscript submissions

closed (30 April 2025)



## Mathematics

an Open Access Journal  
by MDPI

Impact Factor 2.2  
CiteScore 4.6



[mdpi.com/si/211829](https://mdpi.com/si/211829)

*Mathematics*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[mathematics@mdpi.com](mailto: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).