

Special Issue

Mathematical and Artificial Intelligence Applications in Network Information Security and Network Traffic Processing

Message from the Guest Editors

The exponential growth of digital networks, coupled with the evolving landscape of cyber threats, has created unprecedented challenges in network security and traffic management. Contemporary cybersecurity demands sophisticated approaches that leverage advanced mathematical frameworks and artificial intelligence methodologies to detect, analyze, and mitigate complex network vulnerabilities and optimize traffic processing mechanisms. This Special Issue seeks to showcase pioneering research that integrates mathematical modeling, machine learning, deep learning, and AI-driven methodologies to address critical challenges in network information security and traffic analysis. We particularly welcome contributions that link theoretical foundations with practical implementations, offering novel solutions to real-world network security problems.

Guest Editors

Dr. Jiangtao Zhai

School of Electronics and Information Engineering, Nanjing University of Information Science and Technology, Nanjing 210044, China

Prof. Dr. Guangjie Liu

School of Electronics and Information Engineering, Nanjing University of Information Science and Technology, Nanjing 210044, China

Deadline for manuscript submissions

10 July 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/246812

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).