Special Issue

Computer Networks and Distributed Systems

Message from the Guest Editors

With the rapid growth of computational demands and evolving AI technologies, computer networks have become the vital backbone for reliable, scalable, and efficient services. From data-intensive analytics to mission-critical applications, modern systems depend on high-performance networking infrastructures. However, their complexity brings challenges such as fault tolerance, congestion control, resource optimization, and seamless cloud integration—key factors for maintaining performance and resilience. This Special Issue highlights cutting-edge research that applies intelligent computing and optimization strategies to address these challenges. Topics include fault tolerance, congestion control, resource optimization, data center networks, cloud computing, and parallel or distributed systems. We welcome innovative contributions presenting new algorithms, theoretical frameworks, or practical methodologies to enhance network design and operation. By combining theory and application, this Special Issue aims to promote high-capacity, fault-tolerant, and sustainable networks capable of supporting the next generation of computing.

Guest Editors

Dr. Weibei Fan

Dr. Xiaoyan Li

Dr. Mengjie Lv

Dr. Zhijie Han

Deadline for manuscript submissions

30 September 2026

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).