

Special Issue

Research and Application of Network and System Security

Message from the Guest Editors

We are pleased to announce this Special Issue of the *Mathematics* journal, entitled "Research and Application of Network and System Security". In today's interconnected world, the emergence of Intelligent Connected Vehicles, Industrial Control Systems, and Cloud-Edge Collaboration Architecture has significantly expanded attack surfaces. Cybersecurity threats are becoming more complex and cross-domain in nature, demanding sophisticated defense strategies. We invite the submission of cutting-edge research on Dynamic Heterogeneous Redundancy models that enhance system resilience against Cross-Domain Attacks. Contributions addressing Game theory-based Attack Evaluation frameworks for dynamic threat assessment are highly encouraged. We also welcome studies exploring how AI can optimize Integrated Safety Protection mechanisms in multi-layered architectures. Research on how Cloud Computing and Edge Computing can support real-time threat detection and response in these systems will be particularly valuable to advancing the field of cybersecurity.

Guest Editors

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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.

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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).