

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.

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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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