Special Issue

Advances in Computational Methods for Network Security

Message from the Guest Editor

We are pleased to invite submissions to this Special Issue focused on computational methods and algorithms for network and data security. With the widespread use of computer networks and the rapid growth of network-based services, ensuring network and data security has become a critical challenge for system administrators and researchers alike. In recent years, we have witnessed a significant evolution in the design of security algorithms—ranging from traditional rule-based systems, which rely on predefined signatures and heuristics, to artificial intelligence (AI)-based approaches that can learn from data, detect complex patterns, and adapt to evolving threats. Both approaches offer greater adaptability and performance across different layers and types of security problems. This Special Issue aims to showcase the latest research on the design, analysis, and implementation of novel algorithms for network and data security. We welcome contributions on new mathematical models, algorithmic innovations, and efficient implementation techniques that advance the state of the art in this important field.

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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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