

# Special Issue

## Mathematical Models in Information Security and Cryptography

### Message from the Guest Editors

In the rapidly evolving digital world, the importance of information security and cryptography cannot be overstated. The utilization of mathematical models in this domain plays a pivotal role in enhancing data protection, ensuring secure communication channels and thwarting cyber attacks. Mathematical models provide a rigorous framework for analyzing cryptographic algorithms, assessing vulnerabilities, and quantifying the degree of security. Moreover, the integration of mathematical models ensures cryptographic systems to hold desired properties such as confidentiality, authenticity, and non-repudiation. This special issue aims to explore innovative methodologies, fundamental theories and practical applications that tackle the evolving challenges in security and cryptography, offering new insights into how mathematical models can be applied to enhance the security and resilience of system.

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### Guest Editors

Prof. Dr. Jiangang Shu

Prof. Dr. Yong Ding

Prof. Dr. Haining Yu

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### Deadline for manuscript submissions

30 April 2026



## Mathematics

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### 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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### Editor-in-Chief

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