New Advances in Coding Theory and Cryptography, 2nd Edition

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Deadline for manuscript submissions:
10 June 2025

Message from the Guest Editors

Dear Colleagues,

Recent years have witnessed a proliferation of powerful coding and cryptographic algorithms, protocols, and systems which combine with promising technologies, including artificial intelligence, blockchain, cloud computing, digital twins, edge computing, etc. It is conducive for academic researchers and industry practitioners to exchange new ideas and discuss increasing technology convergence.

This Special Issue welcomes contributions from theory to practice and aims to publish high-quality and original research papers on various technologies for secure computing and communication. Topics include, but are not limited to, the following:

- Homomorphic encryption and attribute-based encryption;
- Zero knowledge proofs and secure multiparty computation;
- Authentication and key exchange;
- Lattice theory and its applications;
- Blockchain-based secure communication systems;
- Cloud security and privacy;
- Trustworthy digital twins in industrial IoT systems;
- Federated learning in edge computing;
- Vulnerabilities, attacks, and defenses;
- Privacy-preserving machine learning.

Special Issue

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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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