Special Issue

Applied Cryptography and Blockchain

Message from the Guest Editor

Recent trends in the combination of cyber space and physical systems have enhanced the importance of cyber security and privacy requirements. In particular, this development has introduced new challenges regarding network security, data privacy, and applied cryptography. Also, blockchain technology may be used to solve these challenges. Consequently, different mathematical approaches are employed to address security and privacy problems. The goal of this Special Issue is to propose advanced techniques that: (i) minimize the implementation and execution overheads of the employed cryptographic mechanisms for network security and data privacy; (ii) provide mathematical proofs for the security and privacy claims; (iii) evaluate the security of certain cryptographic primitives; and (iv) yield efficient blockchain consensus protocols.

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Deadline for manuscript submissions

15 October 2025

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Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6

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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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