Special Issue

On the Security of the Blockchain Technology

Message from the Guest Editor

Blockchain technology was designed to enable decentralized and secure crypto-currency. Numerous studies have explored the features of blockchains, such as scalability, resiliency, decentralization, reliability, and immutability in different use cases. Hence, blockchains are becoming a cornerstone for the development and deployment of other technologies such as decentralized applications (Dapp), the Internet of Things (IoT), digital supply chains (DSCs), cooperative intelligent transportation systems (C-ITSs), federated learning (FL), and many others. The topics of interests in this Special Issue include, but are not limited to:

- Blockchain-based approaches for the security of IT systems;
- Blockchain-based approaches for intrusion detection;
- Blockchain issues and trends;
- Blockchain privacy;
- Blockchain new design;
- Cryptocurrency fraud;
- Cryptocurrency fraud detection;
- Smart contracts for the security of IT systems;
- Smart contracts privacy and security issues.

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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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