Special Issue

Security and Reliability Assessment for Blockchain

Message from the Guest Editors

Blockchain technology has emerged as a transformative force, playing a crucial role in the development and deployment of emerging technologies such as Decentralized Finance (DeFi), Decentralized Applications (DApps), Decentralized Identifiers (DIDs), Federated Learning (FL), the Metaverse, Web 3.0, and many others. Despite its advantages, blockchain systems still face significant challenges related to security, reliability, and scalability. Furthermore, with the continued growth of blockchain adoption, it is becoming increasingly vital to enhance the security and resilience of these application scenarios to protect against potential attacks and privacy breaches. This Special Issue aims to address these challenges by providing a platform for researchers and practitioners to present cutting-edge solutions, methodologies, and frameworks for assessing, improving, and ensuring the security and reliability of blockchain-based systems.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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