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Cryptography and Blockchain Technologies—Present Applications and Future Researches

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Deadline for manuscript submissions:

closed (30 April 2024)

Message from the Guest Editors

This Special Issue is focused on the state of the art of development and research on cryptography and blockchain technologies...We solicit recent application-based research on cryptography and blockchain technologies. Review papers are also welcome that address new directions in these domains and tracks.

Cryptography Tracks:

eg: Cryptographic tools for network security and privacy protection; Novel cryptographic protocols; Cryptanalysis (classical and quantum) and deanonymization; Quantum cryptography and standardization efforts in quantum-resistant cryptography; Code-based, lattice-based, hash-based, isogeny-based, multivariate cryptography...

Performance, Security and Privacy Aspects :

eg: Security Token offering; Tokenized security; Zero-knowledge proof (ZKP); Decentralization, scalability, and security tradeoff of blockchain technology; Protocols and algorithms based on blockchain and security aspects...

Blockchain Tracks

eg: Present technologies and architectures; Advanced blockchain-based systems and architectures and future trends; Future blockchain-based use cases; Performance, security and privacy aspects...



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Special Issue



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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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