

Special Issue

Role of Symmetric Cryptography for Blockchain Technology

Message from the Guest Editor

Blockchain and cryptographic technologies have been acknowledged as being of utmost significance for security, privacy, and a wide range of uses within cyberspace. The widespread use of blockchain and cryptographic techniques has created difficulties for the creation of sophisticated methods with high security and minimal overheads. Therefore, in this Special Issue, we seek efficient and secure blockchain approaches as well as light-weight cryptographic methods with verifiable security. We pay significant attention to the use of advanced mathematical techniques and concepts to create sophisticated blockchain consensus protocols that do not rely heavily on energy usage and also the use of information theory and coding results to create advanced symmetric key cryptography primitives.

Guest Editor

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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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