The Cryptography of Cryptocurrency

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Message from the Guest Editors

The revolutionary impact given by the introduction of cryptocurrencies has just started to enroll. From the original idea of the "world coin backed only by trust in mathematics" (Bitcoin), in itself a disruptive notion, several other unexpected and exciting applications of cryptography have emerged, e.g. privacy-preserving transactions (Monero), smart contracts (Ethereum), digital notary (Factom), as well as the pervasive Blockchain technology.

The aim of this Special Issue is twofold. On one hand, we would like to study the cryptographic functions and protocols used in nowadays cryptocurrencies, with a critical eye on their feasibility/security. On the other, we welcome new applications of cryptography to the wide world of cryptocurrencies. Both research papers and survey papers are invited.

Special Issue

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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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