Special Issue

Blockchain and Cryptocurrency Complexity

Message from the Guest Editors

Bitcoin represents the most important application of blockchain. This technology has rapidly expanded and led to the emergence of a rich ecosystem composed of many cryptocurrencies, whose complexity impacted society at different levels and gained the attention of scientific communities. Understanding and forecasting the dynamics of cryptocurrencies is a fascinating challenge; the goal of this Special Issue is to collect relevant contributions in this field. Due to their potential in unveiling and describing complex phenomena, particular interest is oriented towards methods based on statistical physics, machine learning, and their combination. For instance, network theory and deep learning, which have been proven to be successful in investigating this technology, can be exploited the study of many other aspects related to the dynamics of cryptocurrencies, their behaviour, and their interactions with other systems and technologies. Contributions are expected to shed light on the above issues and many others related to the world of blockchain, bitcoin, and cryptocurrencies, proposing original ideas and innovative approaches.

Guest Editors

Dr. Marco Alberto Javarone

Gianni Valerio Vinci

Gabriele Di Antonio

Deadline for manuscript submissions

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Entropy
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
entropy@mdpi.com

mdpi.com/journal/entropy

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The concept of entropy is traditionally a quantity in physics that has to do with temperature. However, it is now clear that entropy is deeply related to information theory and the process of inference. As such, entropic techniques have found broad application in the sciences.

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Editor-in-Chief

Prof. Dr. Kevin H. Knuth
Department of Physics, University at Albany, 1400 Washington Avenue, Albany, NY 12222, USA

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