

Special Issue

Symmetry in Big Data and Blockchain Technologies

Message from the Guest Editors

This Special Issue aims to publish research works on big data analytics of blockchain applications and technologies. Blockchain applications generate a substantial amount of data in the public domain across various blockchain networks. By applying advanced AI techniques like ML and LLM, we can have a better understanding of these datasets. The inherent structure and operations of public blockchain networks, from transaction records and smart contract interactions to network statistics and consensus mechanisms, generate a substantial, ever-growing, and publicly accessible volume of data. This vast repository presents an opportunity for advanced analysis, yielding critical insights into economic activity, security vulnerabilities, network efficiency, and user behaviour. The Issue will also cover the use of privacy-preserving operations on on-chain data.

Guest Editors

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About the Journal

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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