Special Issue

Navigating the Frontiers of 6G Wireless Communication Networks and Beyond

Message from the Guest Editors

The upcoming advent of 6G technology marks a pivotal shift, set to transform how we connect, communicate, and engage within the digital world.

In the realm of interconnection networks, many architectures display a high degree of symmetry, often arising from their recursive construction and vertex- and edge-transitive properties. This symmetry is not merely aesthetic; it serves a vital functional role in the design and optimization of parallel systems. Symmetrical networks allow for enhanced load balancing, improved fault tolerance, and more efficient routing algorithms, making them well-suited for high-performance computing and large-scale data processing. Additionally, the regularity and uniformity provided by symmetry simplify both the physical layout and computational modeling of networks, fostering scalability and maintainability. By harnessing these symmetrical properties, researchers can develop optimized solutions for complex computational tasks, furthering advancements in network theory and its applications.

We welcome diverse perspectives and submissions that reflect the development and realization of 6G's potential advancements.

Guest Editors

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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.

Editor-in-Chief

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