

Special Issue

The Role of Symmetry in Internet of Things (IoT) Applications

Message from the Guest Editors

The Internet of Things (IoT) has rapidly evolved into one of the most transformative technologies of the 21st century, reshaping industries, cities, and societies. The role of symmetry in IoT applications, whether in communication protocols, system architectures, security frameworks, or optimization algorithms, offers unique opportunities to design balanced, reliable, and scalable solutions. At the business and industrial levels, IoT acts as an ultra-intelligent analytical ecosystem. It delivers data-driven insights that support better decision-making, identify operational inefficiencies, and establish unprecedented connections between devices, humans, and processes. This integration enhances productivity while reducing costs, resource consumption, and environmental impacts. The aim of this Special Issue is to highlight how symmetry principles and techniques can be leveraged within IoT systems to address challenges of interoperability, resilience, energy efficiency, and security in a post-pandemic digital economy. We invite high-quality contributions that explore the theoretical foundations, applications, and emerging directions at the intersection of symmetry and IoT intelligence.

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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.

Editor-in-Chief

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