# 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 postpandemic digital economy. We invite high-quality contributions that explore the theoretical foundations, applications, and emerging directions at the intersection of symmetry and IoT intelligence.

### **Guest Editors**

Dr. Prawit Chumchu

Faculty of Engineering at Si Racha, Kasetsart University, Sriracha, Thailand

Dr. Timothy T. Adeliyi

Department of Informatics, Faculty of Engineering, Built Environment and Information Technology, University of Pretoria Pretoria 0028, South Africa

### Deadline for manuscript submissions

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

mdpi.com/journal/ symmetry





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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**

Prof. Dr. Sergei Odintsov

- 1. ICREA, 08010 Barcelona, Spain
- 2. Institute of Space Sciences (IEEC-CSIC), C. Can Magrans s/n, 08193 Barcelona, Spain

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