

## Special Issue

# Wireless Communications and Symmetries

### Message from the Guest Editors

The unprecedented growth of data traffic, driven by the proliferation of connected devices and bandwidth-intensive applications, has accelerated the development of next-generation wireless communication systems. To address these challenges, modern wireless communication architectures rely on the tight integration of multiple advanced technologies, including massive and cell-free MIMO, integrated sensing and communication schemes and Artificial Intelligence-driven networks to modern networks. By leveraging spatial, temporal, frequency and statistical symmetries, wireless systems can achieve significantly enhanced performance in terms of capacity, interference mitigation and energy efficiency. Symmetry principles arise naturally in antenna array configurations, channel models, modulation and coding schemes, multi-user transmission strategies and resource allocation mechanisms. This Special Issue aims to provide a comprehensive forum for original research contributions that investigate the theoretical foundations, algorithmic frameworks and practical implementations of symmetry-aware wireless communication systems.

---

### Guest Editors

Dr. Francisco R. Castillo-Soria

Dr. David Zabala Blanco

Prof. Dr. Jose Alberto Del Puerto Flores

---

### Deadline for manuscript submissions

31 December 2026



## Symmetry

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 5.2



[mdpi.com/si/270181](https://mdpi.com/si/270181)

*Symmetry*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[symmetry@mdpi.com](mailto:symmetry@mdpi.com)

[mdpi.com/journal/  
symmetry](https://mdpi.com/journal/symmetry)





# Symmetry

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.2  
CiteScore 5.2



[mdpi.com/journal/  
symmetry](https://mdpi.com/journal/symmetry)



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

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within SCIE (Web of Science), Scopus, CAPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

#### Journal Rank:

JCR - Q2 (Multidisciplinary Sciences) / CiteScore - Q1  
(General Mathematics)