

Special Issue

Symmetry in Computational Statistics

Message from the Guest Editor

Dictionary definitions of symmetry emphasize the properties of systems that remain unaltered under certain operations and typically identify symmetry with a pleasing aesthetic. Both of these aspects of symmetry are common in mathematical statistics and examples abound: symmetric probability distributions, symmetric or Hermitian variance matrices, idempotence of Fourier transforms, ergodic simulations, recursive functions, and so on. Symmetry remains an important diagnostic for many systems and a valuable conceptual tool to clarify thinking. Symmetry may be exploited in a variety of ways to produce software that is faster, more elegant or efficient, more versatile, or easier to maintain. This Special Edition of *Symmetry* is completely devoted to recent developments in statistics, especially computational mathematics and statistical software, in which symmetrical properties of systems are exploited or highlighted. We encourage relevant contributions from all fields related to computational statistics, as well as encourage authors to consider "statistics" in its broadest sense of manipulation of calculated quantities.

Guest Editor

Dr. Robin Hankin

School of Engineering, Computer and Mathematical Sciences,
Auckland University of Technology, Auckland 1142, New Zealand

Deadline for manuscript submissions

closed (30 November 2022)



Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



mdpi.com/si/91637

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

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





Symmetry

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 5.3



[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

1. ICREA, 08010 Barcelona, Spain

2. 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)