



## Symmetry in Applied Mathematics

Guest Editors:

**Prof. Dr. Lorentz Jäntschi**

Department of Physics and  
Chemistry, Technical University  
of Cluj-Napoca, 400114 Cluj-  
Napoca, Romania

**Prof. Dr. Sorana D. Bolboacă**

Department of Medical  
Informatics and Biostatistics,  
"Iuliu Hațieganu" University of  
Medicine and Pharmacy, Louis  
Pasteur Str., No. 6, 400349 Cluj-  
Napoca, Romania

Deadline for manuscript  
submissions:

**closed (15 November 2019)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue, "Symmetry in Applied Mathematics" is open for submissions and welcomes papers from a broad interdisciplinary area, since 'applied mathematics' is a specific form of mathematics that involves creating and use of mathematical models in order to map out the mathematical core of a practical problem. There is probably no scientific field in which applied mathematics has not made its necessary presence. On the other hand, symmetry is about identification and use invariants to any of various transformations for any paired dataset and characterizations associated with. Inside applied mathematics, symmetry may work as a powerful tool for problems reduction and solving. Applications include probability theory (all probabilistic reasoning is ultimately based on judgments of symmetry), fractals (geometry), supersymmetry (physics), nanostructures (chemistry), taxonomy (biology), bilateral symmetry (medicine), and the list can go on.

Prof. Lorentz Jäntschi

Prof. Sorana D. BOLBOACĂ

*Guest Editors*





an Open Access Journal by MDPI

## 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

## 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.

## 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)

## Contact Us

---

Symmetry Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/symmetry  
symmetry@mdpi.com  
X@Symmetry\_MDPI