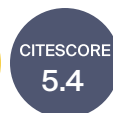




*symmetry*



an Open Access Journal by MDPI

## Symmetry in Approximation Theory and Functional Analysis

Guest Editors:

**Prof. Dr. Denka Kutzarova**

Department of Mathematics,  
University of Illinois Urbana-  
Champaign, Urbana, IL 61801,  
USA

**Dr. Pablo Manuel Berná**

Departamento de Métodos  
Cuantitativos, CUNEF  
Universidad, 28040 Madrid, Spain

Deadline for manuscript  
submissions:

**closed (30 November 2023)**

### Message from the Guest Editors

Dear Colleagues,

We welcome interdisciplinary interactions between approximation theory and functional analysis. This Special Issue covers all possible connections between these two areas with special attention to properties concerning symmetry, such as, for instance, the relationship of the convergence of some algorithms using symmetric bases in Banach (or quasi-Banach) spaces. In particular, results are welcome on, but not limited to:

- Algorithms in optimization theory;
- Symmetric approximations of frames;
- Related properties of symmetry to study the convergence of algorithms;
- Studies of the best approximation using some symmetric properties;
- Abstract approximations;
- Symmetric bases;
- Machine learning and approximations;
- Wavelet theory and its applications;
- Orthogonal polynomials;
- Fourier expansions.



[mdpi.com/si/109554](https://mdpi.com/si/109554)

# Special Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Sergei D. Odintsov

1. Institutió Catalana de Recerca  
i Estudis Avançats (ICREA),  
Passeig Luis Companys, 23,  
08010 Barcelona, Spain  
2. Institute of Space Sciences  
(ICE-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 Scopus, SCIE (Web of Science), 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