

Special Issue

Symmetry in Approximation Theory and Functional Analysis

Message from the Guest Editors

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.

Guest Editors

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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.

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