

Special Issue

Symmetry/Asymmetry in Harmonic Analysis and Applications

Message from the Guest Editor

Harmonic analysis, a cornerstone of modern mathematical sciences, explores the intricate interplay between symmetry and asymmetry in various contexts, from pure mathematics to applied sciences. This Special Issue, titled "Symmetry/Asymmetry in Harmonic Analysis and Applications," delves into the profound role these dual concepts play in shaping theoretical frameworks and practical solutions. Symmetry often provides elegant structures and simplifying principles, while asymmetry introduces complexity and richness, driving innovation in both theory and applications. Contributions to this Special Issue will span a wide range of topics, including Fourier analysis, wavelet theory, partial differential equations, and their applications in signal processing, imaging, and quantum mechanics. By bridging the gap between abstract mathematical ideas and real-world problems, this collection aims to highlight the transformative power of harmonic analysis in understanding and harnessing symmetry and asymmetry across disciplines.

Guest Editor

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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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