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Symmetry and Fractals: Theory and Applications

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Message from the Guest Editors

Symmetry and fractals are two concepts that are abundant in mathematics, physics, and nature. They provide new mathematical tools for studying complex systems and are important for understanding and describing physical phenomena. These tools can extract useful information hidden in complex data, providing strong support for scientific research and engineering applications. They both hold important positions and values in the field of science.

This Special Issue aims to explore the basic principles and applications of symmetry and fractal theory in fields such as mathematics, physics, chemistry, biology, sociology, and engineering; promote the research and development of symmetry and fractal theory; discover new theories and methods; develop new numerical and experimental methods to validate and expand symmetry and fractal theory; and apply the theories of symmetry and fractals to solve practical problems and promote scientific and technological progress. In this Special Issue, original research articles and reviews are welcome.

Keywords:
symmetry;
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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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