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Symmetry in Differential Geometry and Geometric Analysis

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Message from the Guest Editors

Dear Colleagues,

Fractal geometry is an important branch of mathematics that allows for the description of sets that are too intricate to fit into classical geometry.

It is well known that fractals are widely distributed in nature, such as mountains, landforms, cloud clusters, and so on. Mandelbrot once said that fractal geometry is the language of nature. There exist a lot of symmetries in natural objects with fractal characteristics, of which the most prominent one might be the Koch snowflake. Therefore, it is of great interest to explore the phenomena of symmetry or asymmetry in the fractal world.

This Special Issue aims to collect a series of high-quality papers from renowned experts from around the world to present the latest research on fractal geometry and its various applications. While the focus of this issue includes all the aspects mentioned above, we particularly welcome contributions from researchers who use the concepts of symmetry or asymmetry in their methodologies.

Dr. Yongshun Liang
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Guest Editors

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Special Issue

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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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