

## Special Issue

# Fractal Functions: Theoretical Research and Application Analysis

### Message from the Guest Editors

Fractal geometry is an important branch of mathematics that allows for the description of sets that are too intricate to fit into classical geometry. Fractal curves and fractal functions are a class of important research objects in fractal geometry. As is well known, fractal curves are widely distributed in nature, being found in lightning, snowflakes, coastlines, geological crack lines, and so on. In mathematical analysis, fractal functions are usually regarded as continuous functions of one variable based on a two-dimensional Cartesian coordinate system to probe their fractal characteristics. In recent years, fractal functions have been widely applied in other academic fields, such as physics, statistics, geology, material science, quantization theory, signal processing, computer image processing, pattern recognition, and more. Therefore, fractal functions have increasingly shown their tremendous research value for both real life and scientific development. This Special Issue aims to collect a series of high-quality papers from renowned experts around the world to present the latest research on fractal functions with their application and analysis in various fields.

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### Guest Editors

Prof. Dr. Yong-Shun Liang

School of Mathematics and Statistics; Nanjing University of Science and Technology, Nanjing 210094, China

Prof. Dr. Jia Liu

Institute of statistics and applied mathematics, Anhui University of Finance and Economics, Bengbu 233030, China

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### Deadline for manuscript submissions

31 October 2026



## Fractal and Fractional

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*Fractal and Fractional*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[fractalfract@mdpi.com](mailto:fractalfract@mdpi.com)

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## About the Journal

### Message from the Editor-in-Chief

*Fractal and Fractional* (*Fractal Fract.*) is a scholarly online journal which provides a forum for discussion on new original models and methods in fractals and fractional calculus both from theory and applications. It is a peer-reviewed, open access journal that publishes high quality original research articles, review papers and short communications.

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### Editor-in-Chief

Prof. Dr. Carlo Cattani

Engineering School (DEIM), University of Tuscia, Largo dell'Università,  
01100 Viterbo, Italy

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