Special Issue

Fractal Dimensions with Applications in the Real World

Message from the Guest Editors

The concept of fractals was introduced by B. Mandelbrot in the last 1970s as a class of highly irregular sets often presenting with infinite complexity, self-similarity and the nonintegral Hausdorff dimension. It has had a great impact in the development of mathematics and many other disciplines of science. The aim of this Special Issue is to present the up-to-date progress in fractal dimensions and their various applications to the real world. Topics invited for submission include, but are not limited to, the following:

- Fractal dimensions of iterated function systems;
- Fractal dimensions of self-similar measures;
- Hausdorff dimension of fractal graphs;
- Lipschitz equivalence of fractal sets;
- Topological structures of fractal sets;
- Diophantine approximation;
- Fractal dimensions in dynamical systems;
- Applications of fractal dimensions.

Guest Editors

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Deadline for manuscript submissions

closed (31 July 2025)

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

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