

## Special Issue

# Recent Advances in Fractal Interpolation Functions and Their Applications in AI

### Message from the Guest Editors

To date, Artificial Intelligence (AI) has been used for classification, prediction, and optimization. However, there is still room for improving the application of AI in many fields. In situations where the problem to be modelled is too intricate, the approach of incorporating AI can lead to promising results. There is a consistent body of literature demonstrating that AI-based methods provide greater reliability, accuracy, and predictability, while helping to detect hidden nonlinear chaotic patterns in big data applications. In this special issue, the focus will be on recent developments of fractal functions and their applications in AI and data science, including theoretical and numerical aspects. The purpose is to develop the research area of differential equations, integral equations, approximation theory, wavelets, curve fitting, and reproducing kernel Hilbert spaces. We also aim to extend applications of fractal functions in machine learning and data modelling. Applications of AI in fractal functions are also welcome to this special issue.

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### Guest Editors

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Prof. Dr. María A. Navascués

Dr. Vasileios Drakopoulos

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### Deadline for manuscript submissions

closed (15 January 2024)



## Fractal and Fractional

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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

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