

Special Issue

Fractional Derivatives in Mathematical Modeling and Applications

Message from the Guest Editors

We welcome submissions presenting research on methods for solving fractional differential equations, fractional integro-differential equations, and systems of equations incorporating fractional derivatives. Moreover, this Special Issue also covers optimization problems arising in models that include fractional derivatives. Additionally, we highly value contributions that propose mathematical models based on fractional derivatives to describe phenomena occurring in nature, physics, technology, and engineering.

Guest Editors

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Dr. Rafał Brociek

Prof. Dr. Edyta Hetmaniok

Deadline for manuscript submissions

closed (31 March 2026)



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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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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).