

Special Issue

New Trends on Generalized Fractional Calculus, 2nd Edition

Message from the Guest Editors

For the study of fractional differential equations involving these general fractional derivatives, there is a need to develop new mathematical tools in the areas of integral transforms, special functions and their properties, generalised functions, and numerical methods, to mention a few. This Special Issue intends to contribute to the development and expansion of these topics within the scope of generalised fractional calculus. **Our first edition collected 11 good papers.** We continue inviting researchers to submit their original work, as well as review articles. Topics include (but are not limited to) the following:

- Mathematical theory of generalised fractional calculus.
- Integral transform methods.
- Special functions and their properties.
- Inequalities, maximum principles, and stability results.
- Initial and boundary value problems.
- Numerical analysis and algorithms.
- Fixed-point theory and applications in fractional calculus.
- Fractional differential equations arising in physical models. In particular, anomalous diffusion processes involving generalised fractional derivatives.
- Fractional stochastic differential equations.
- Fractional networks.

Guest Editors

Dr. Milton Ferreira
Dr. Maria Manuela Fernandes Rodrigues
Dr. Nelson Felipe Loureiro Vieira

Deadline for manuscript submissions

closed (31 December 2025)



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Fractal and Fractional
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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.

Editor-in-Chief

Prof. Dr. Carlo Cattani
Engineering School (DEIM), University of Tuscia, Largo dell'Università,
01100 Viterbo, Italy

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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).