

Special Issue

New Challenges Arising in Engineering Problems with Fractional and Integer Order

Message from the Guest Editors

This Special Issue is a place for experts to share new ideas on theories, applications, numerical and analytical methods and simulations of fractional calculus and fractional differential equations, as well as integer order. Topics of interest are defined below, and submissions relating to relevant fields are welcome.

- New analytical and numerical methods to solve partial differential equations
- Computational methods for fractional differential equations
- Analysis, modeling, and control of phenomena in the following:
 - Electrical engineering;
 - Fluids dynamics and thermal engineering;
 - Mechanics;
 - Biology;
 - Physics;
 - Applied sciences;
 - Computer science.
- Engineering problems
- Deterministic and stochastic fractional order models

This Special Issue is organized together with the 5th International Conference on Computational Mathematics and Engineering Sciences (CMES-2020) (1–3 July 2020, Van, Turkey); hence, participants in CMES-2020 are especially welcome to submit their contributions. However, this Special Issue will accept contributions from all authors, not just conference participants.

Guest Editors

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Deadline for manuscript submissions

closed (1 December 2020)



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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

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Author Benefits

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Rapid Publication:

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).