Special Issue

Bifurcation, Chaos, and Fractals in Fractional-Order Electrical and Electronic Systems

Message from the Guest Editors

Fractional-order model and the design of the fractional-order controller have become a current hot topic. However, fractional-order electrical and electronic systems have complex dynamical properties, among them, bifurcation, chaos, and fractals are typical nonlinear phenomena and will have an important effect on the system's performance. This Special Issue aims to focus on

- Bifurcation, chaos, and fractals in fractional-order electrical and electronic systems and their control;
- Continuous/discrete modeling and stability analysis of fractional-order electrical and electronic systems;
- Multi-timescale and entropy analysis of fractional-order electrical and electronic systems;
- Optimization of the control accuracy for fractional-order electrical and electronic systems;
- Improvements and applications of fractional calculus in electrical and electronic systems.

Guest Editors

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Deadline for manuscript submissions

closed (15 August 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 19.3 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).