

**SPECIAL SECTION/ISSUE****Title*****Recent Trends in Fractals and Nonlinear Dynamical Systems*****Editors****Dr. A. Gowrisankar**

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**About**

Fractals and dynamical systems are two-sided coins that have attracted contemporary scientific attention. A typical fractal exhibits statistical self-similarity with power law and long-range dependence. Fractal dimensions and their extensions, such as multifractals, provide statistical indexes to characterise fractal sets. Many real-world physical evolutions can be modelled as dynamical systems, and the abstract geometric components of simple iterative models can be considered fractal sets since they have complicated dynamics and replication. Both fractal geometry and nonlinear dynamic models can be used to explore the physics of evolutionary processes, such as climate dynamics, epidemiology, hydrology and economics. Therefore, it is crucial to understand diverse fractal control methods and their connections to nonlinear dynamics to fully comprehend complex real-world systems for making better analysis.

**Scope**

This special publication mainly focuses on recent trends in fractal analysis and application merits of nonlinear dynamical systems. It encompasses numerous scientific domains covering a large range of subjects, including (but not limited to) the following:

- fractal modelling of nonlinear dynamical systems
- fractals, dimensions and functions in nonlinear dynamics
- fractal approaches in nonlinear systems
- fractals in fractional order dynamical systems
- reconstruction of dynamical attractors via fractals.

**Important dates**Submission deadline: **15 December 2023**Notification of acceptance: **31 March 2024**Possible publication: **September 2024****Information for authors**

- The papers should meet high quality journal manuscript guidelines, in terms of research results, editorial quality, and language. Poorly written manuscripts will not be considered for review.
- The submission must be done online at [www.amcs.uz.zgora.pl/?action=submission](http://www.amcs.uz.zgora.pl/?action=submission).
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- The papers should be prepared with the journal LaTeX template, following strictly the guide for authors available at [www.amcs.uz.zgora.pl/?action=guide](http://www.amcs.uz.zgora.pl/?action=guide).
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