

Special Issue

Chaotic Dynamics in Discrete Time Systems

Message from the Guest Editors

This Special Issue aims to explore chaotic phenomena in discrete-time systems. Authors are welcome to submit their original and review works on discrete-time systems of any dimension which showcase interesting chaotic phenomena. Examples include:

- Symmetric attractors;
- Coexisting attractors;
- Hidden attractors;
- Antimonotonicity;
- Crisis;
- Bifurcations;
- Decay of correlations;
- Transient dynamics;
- Networks and multilayer networks of chaotic maps;
- Robust chaos;
- Infinite number of equilibria;
- Controllable number of equilibria;
- Controllable statistical measures;
- Techniques for constructing new maps;
- Novel tools and measures for studying chaotic maps;
- Digital implementations of the above;
- Applications of chaotic maps and their transformed versions in optimization, encryption, communications, and more.

Guest Editors

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Dr. Murilo da Silva Baptista

Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Dynamics aims to cover the research needs of scholars working mainly with physical and chemical processes and thus focuses on the study of systems in these two fields, presenting both theoretical and experimental results. Of particular interest are papers detailing new results concerning dynamics theory regarding differential equations (ordinary differential equations, stochastic differential equations, fractional order systems, nonlinear systems, and chaos) and their discrete analogs, which consist of the mathematical base of the presented physical and chemical models. *Dynamics* will also publish papers concerning computational results and applications of physical and chemical processes in biology, engineering, robotics, and the other sciences, as well as papers in other areas of mathematics that have direct bearing on the dynamics of these kinds of processes.

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Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, EBSCO, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.4 days after submission; acceptance to publication is undertaken in 6.6 days (median values for papers published in this journal in the first half of 2024).

Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and reviewer names published annually in the journal.