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Special Issue Reprint

Recent Advances in Chaos, Fractal and Complex Dynamics in Nonlinear Systems

Edited by: Zhouchao Wei and Liguo Yuan

This reprint collates all of the articles published in the Special Issue of *Mathematics* titled "Recent Advances in Chaos, Fractal and Complex Dynamics in Nonlinear Systems". This Special Issue was devoted to showcasing the latest theoretical advances and practical developments in the field of nonlinear dynamics, with a particular focus on chaotic behavior, bifurcation phenomena, fractal structures, and the emerging dynamics in fractional-order, discrete, and discontinuous systems.

The collected works reflect the rapid progress that has been achieved in understanding the interplay among nonlinear systems, chaos, bifurcation, and fractals. The topics include new methods for detecting chaos, novel types of attractors (including hidden attractors), fractal features in fractional-order systems, and the applications of chaotic and fractal dynamics in areas such as secure communication and optimization algorithms.

We hope that this reprint will serve as a valuable reference for researchers and practitioners engaged in the study of nonlinear systems, and in particular, those exploring chaos theory, bifurcation analysis, fractal geometry, and the complex behavior of emerging dynamical models.

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