

Special Issue

Analytical Approaches to Nonlinear Dynamical Systems and Applications, 3rd Edition

Message from the Guest Editor

This Special Issue of *Mathematics* aims to explore the analytical methodologies that provide profound insights into the complexities of nonlinear dynamical systems. We invite contributions that highlight recent advancements and emerging trends in the analytical study of these systems, particularly those described by nonlinear differential equations. We encourage submissions that present innovative analytical treatments of nonlinear dynamical systems, showcasing applications across diverse fields such as physics, applied mathematics, mechanics, engineering, and life sciences. Interdisciplinary approaches that illustrate potential future research directions are also highly welcome. This Special Issue seeks to foster a deeper understanding of nonlinear phenomena and to inspire further exploration in this vital area of study.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 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).

