

Special Issue

Advances in Nonlinear Differential Equations with Applications

Message from the Guest Editors

The aim of this Special Issue is to present innovative research and advancements in the field of nonlinear differential equations and management, encompassing both theoretical developments and practical applications. This Special Issue welcomes the submission of high-quality articles that present original research supported by illustrative applications, as well as survey articles of exceptional merit that offer advanced insights into the field. The scope of this Special Issue includes, but is not limited to, the following topics:

- Analytical and numerical methods for solving nonlinear differential equations;
- Stability analysis and bifurcation theory;
- Nonlinear dynamic systems and chaos theory;
- Fractional differential equations and their applications.

We encourage submissions that highlight the interplay between theoretical foundations and real-world applications, fostering a deeper understanding of nonlinear phenomena across various domains.

Guest Editors

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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 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).