

Special Issue

Applications of Partial Differential Equations

Message from the Guest Editor

Partial differential equations are indispensable in modeling various phenomena and processes in many fields, such as physics, biology, finance, and engineering. The study on the solutions of partial differential equations, be it on the qualitative theory or quantitative methods, as well as the applications of such investigations to real-world problems, have drawn a large amount of interest from researchers. This Special Issue aims to collect original and significant contributions on:

- The applications of partial differential equations in modeling real-world phenomena;
- Qualitative theory on the solutions of partial differential equations;
- Analytical or numerical methods for solving partial differential equations.

Equally welcome are investigations in the above topics on partial differential equations involving fractional derivatives with respect to at least one of the independent variables.

Guest Editor

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Deadline for manuscript submissions

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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).