

Special Issue

Differential Equations and Eigenvalue Problems with Application

Message from the Guest Editor

Differential equations and eigenvalue problems have been extensively and profoundly studied. Many differential and integral equations originate from physics, particularly eigenvalue problems that have clear physical meaning. They have long been an integral part of modern science and have numerous applications across the natural science and engineering. This Special Issue focuses on recent theoretical and practical studies of differential equations and eigenvalue problems. Suitable topics include, but are not limited to, the following:

- Differential and integral equations;
- Boundary value problems;
- Nonlocal problems;
- Indefinite problems;
- Differential operator spectrum theory;
- Singular Sturm–Liouville differential operators;
- Eigenvalue problems with application;
- Asymptotic property of eigenvalues;
- Continuous dependence of eigenvalues;
- Gap and ratio of eigenvalues;
- Inverse spectral problem;
- Extremum problem;
- Applications of eigenvalue problems

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).