

Special Issue

Computational Mathematics and Numerical Analysis with Applications

Message from the Guest Editor

Recently, the role of computational mathematics has increased tremendously in different areas of science and engineering. This Special Issue will present recent research results in computational mathematics and publish state-of-the-art fundamental development for applied mathematics and advanced numerical methods, prospective research directions, and their applications. Original and survey papers on analysis, modeling, control, and optimization using advanced computational mathematics and numerical methods with applications to different areas of science, technology, engineering, and other disciplines related to computations are all welcome. Topics include but are not limited to:

- Numerical analysis of differential equations and integral equations;
- Partial differential equations and their applications;
- Finite element methods with applications;
- Computational fluid dynamics and fluid mechanics;
- Scientific computing and algorithms;
- Computational mathematics applied to data science;
- Applied mathematics in optimization problems;
- Mathematical image and signal processing;
- Numerical methods for problems arising in science, technology, and engineering.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2024)



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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).