

Special Issue

Mathematical Analysis: Theory, Methods and Applications

Message from the Guest Editors

Mathematical analysis can be traced back to the Ancient Greeks but remains relevant today, in no small part due to its vast connections with other areas of mathematics such as partial differential equations, calculus of variations, and functional analysis. However, it has become clear that more sophisticated analytical methods may be needed to handle problems which are nonlinear or have a fractal geometry, where classic analytical tools (such as the Browder degree theory or standard Sobolev trace theory) may not work. Indeed, with recent advances in materials science and related areas such as liquid crystal optics, metasurface design, and quantum optics, there is renewed interest in applying analytical methods to solve meaningful problems in the physical sciences. We welcome submissions showcasing original research on mathematical analysis and its applications are particularly welcome, especially those related to partial differential equations, alongside advances in analytical methods, in particular for the treatment of nonlinear problems (broadly defined).

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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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