Special Issue

Approximation Theory and Applications

Message from the Guest Editors

Approximation theory is an important bridge between pure and applied mathematics since it consists of a theoretical study of methods that use numerical approximation to solve problems of mathematical analysis by means of computational algorithms and computer simulation. Recently, approximation methods have been applied to the construction of numerical methods for integral and partial differential equations, fractional calculus, signal theory, and deep learning. The aim of this Special Issue of *Mathematics* is to collect the state-of-the-art improvements of several aspects of approximation theory and of its both theoretical and applied branches and connections with other applied and computational sciences. Thus, research papers and review articles, considering the developments of approximation theory, as well as problems in which approximation theory plays a significant role, are welcome.

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Deadline for manuscript submissions

closed (23 March 2025)

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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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