

Special Issue

Advances in Numerical Analysis and Approximation

Message from the Guest Editors

The field of numerical analysis and approximation plays a pivotal role in the advancement of scientific computing and applied mathematics. It focuses on the development and analysis of algorithms for obtaining numerical solutions to complex mathematical problems. This Special Issue aims to highlight the latest advancements in these crucial areas, with a particular emphasis on approximation techniques, integral equations, finite element methods (FEMs) and isogeometric analysis (IgA). Approximation techniques provide the tools to develop efficient methods for the numerical treatment of such equations and algorithms for estimating solutions to a wide range of other mathematical problems, while finite element methods are indispensable in solving partial differential equations (PDEs) that arise in various physical and engineering contexts. This Special Issue is dedicated to uncovering and promoting innovative research that advances the field of numerical analysis and approximation. We encourage submissions that not only contribute to the theoretical foundations, but also demonstrate practical applications and improvements in computational efficiency.

Guest Editors

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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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