

Special Issue

Finite Element Analysis and Application

Message from the Guest Editors

This Special Issue, titled “Finite Element Analysis and Application”, invites original research and review papers on various branches of the finite element method (FEM) in structural and solid mechanics. Topics include classical FEM, hybrid/mixed formulations, enriched methods, XFEM/GFEM, meshless methods, isogeometric analysis (IGA), smoothed FEM, and other alternative formulations. Studies may address static/dynamic, linear/nonlinear, multi-scale, and multi-physics analyses. Contributions on numerical stability, accuracy, error analysis (a priori/posteriori), mesh refinement, adaptivity, and computational aspects are also welcome. In line with the scope of *Mathematics*, submissions must emphasise mathematical foundations. If applications are included, formulations must be rigorously presented to support numerical or computational simulations. Studies focusing solely on practical simulations without mathematical formulation will not be considered.

Guest Editors

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Deadline for manuscript submissions

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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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Rapid Publication:

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).