

Special Issue

Advances of Mathematics and Artificial Intelligence in Engineering Applications

Message from the Guest Editors

In mathematics, recent advances in state estimation, numerical simulation, inverse problem-solving, ODE/PDE-solving, graph theory and others have enhanced the precision of predictive models and system/controller designs. AI demonstrates superior capability in extracting patterns from heterogeneous datasets, enabling real-time decision making and control in dynamic environments, the rapid computation of traditionally time-consuming FEA/CFD analyses, etc. These hybrid approaches are particularly critical in addressing uncertainties inherent in complex systems, such as robot dynamics, material fatigue, or biomedical signal processing. This Special Issue will provide a platform for researchers to share their latest advances in engineering applications in mathematics and artificial intelligence and novel applications in solving real-world problems. We invite researchers to submit original research articles, reviews, and short communications pertaining to the above topics. All submissions will undergo a rigorous peer-review process, and accepted papers will be published in this Special Issue of *Mathematics*.

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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 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).