

Special Issue

Analysis, Optimization, and Control in Partial Differential Equations

Message from the Guest Editor

This Special Issue of *Mathematics*, “Analysis, Optimization, and Control in Partial Differential Equations”, is designed to delve into the multifaceted aspects of partial differential equations (PDEs), focusing on boundary-value problems, control theory and computation, control of PDEs, output regulation theory for infinite-dimensional systems, and the mathematical theory of artificial intelligence. This Special Issue invites original research articles, theoretical explorations, computational studies, and practical applications that address the challenges and opportunities in the control and analysis of PDEs. We are particularly interested in submissions that explore innovative control strategies, optimization techniques, and analytical methods for PDEs, as well as their applications in artificial intelligence and related fields. By contributing to this Special Issue, you will join a community of scholars dedicated to advancing the frontiers of mathematical theory and its applications. Your work could provide critical insights that drive progress in the control and optimization of complex systems described by PDEs.

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Deadline for manuscript submissions

30 June 2026



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



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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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Prof. Dr. Francisco Chiclana

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