

Special Issue

Advances in Control Theory and Optimizations

Message from the Guest Editors

This Special Issue showcases cutting-edge advancements in both theoretical frameworks and practical applications, highlighting the ever-evolving nature of control systems and optimization techniques. As modern systems grow increasingly complex, new methodologies—including artificial intelligence (AI) and machine learning—have emerged as powerful tools to enhance control strategies, optimize performance, and enable adaptive decision-making. The articles within this issue delve into a diverse array of topics, including robust control strategies, optimization algorithms, and AI-driven approaches applied to fields such as robotics, aerospace, and smart grid technology. Furthermore, this issue emphasizes the interdisciplinary nature of control theory and optimization, fostering collaboration across different domains to tackle complex challenges in engineering and applied sciences.

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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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