

Special Issue

Analysis and Applications of Control Systems Theory

Message from the Guest Editor

The current state of control systems development is marked by significant advancements in technology and theory. From the early analog systems to today's digital and intelligent controllers, control theory has transformed, adapting to the evolving complexities of modern applications. This evolution has been enabled by advancements in computing power, algorithm design, and the integration of AI and machine learning. This Special Issue presents a specific platform for exploring the latest theoretical advancements and practical implementations in advanced control theory. This theme highlights the critical role of control theory in driving innovation across various fields, including robotics, aerospace, and energy management. We invite submissions that delve into the following areas of research: advanced control methods for complex systems, the integration of AI and machine learning in control systems, optimization techniques for control system design, the security control of network control systems, and case studies and applications that demonstrate the practical impact of control systems theory.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2025)



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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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