

Special Issue

Process Control and Automatic Control of Nonlinear Systems

Message from the Guest Editor

This Special Issue aims to highlight recent advances in the mathematical foundations and practical implementations of both linear and nonlinear robust control. We encourage works that combine theoretical developments with real-world applications of control techniques, including, but not limited to, sliding mode control, intelligent observers, fractional-order controllers, high-gain estimation, and machine learning-based adaptive schemes. Contributions exploring the convergence between robust linear theory and nonlinear dynamics are welcomed. Of particular interest are studies that demonstrate the interplay between mathematics and engineering—showcasing innovative uses of nonlinear models, optimal feedback strategies, and data-driven approaches applied to electrical, biological, or mechanical systems. Cross-disciplinary research combining control theory with robotics, biotechnology, computer vision, artificial intelligence, and process industries is highly encouraged. We invite researchers from academia and industry to submit original papers that contribute to this vibrant and evolving field, strengthening the connection between mathematical theory and technological innovation.

Guest Editor

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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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