

Special Issue

Mathematical Theory of Control Systems: Analysis, Modelling and Applications

Message from the Guest Editors

The mathematical theory of control systems is essential in analyzing, modeling, and regulating complex dynamic systems. Its importance lies in providing rigorous tools for understanding the behavior of physical, biological, and technological systems. Through precise mathematical models and advanced control techniques, efficient, robust, and stable solutions can be designed. This drives innovations in various areas of applied science and contributes to the sustainable development of intelligent and autonomous systems, with a significant and crucial impact on the advancement of modern science and technology. As a result, we invite you to submit an original manuscript to the Special Issue. This Special Issue aims to bring together high-quality work that advances the theoretical and practical understanding of control systems from a mathematical perspective. Special attention will be given to contributions addressing rigorous mathematical modeling, qualitative analysis, optimal and robust control methods, stability theory, and innovative applications in engineering and other interdisciplinary areas.

Guest Editors

Prof. Dr. Jorge A. Brizuela-Mendoza

Prof. Dr. Alan Francisco Pérez Vidal

Prof. Dr. Jesse Yoe Rumbo-Morales

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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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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).