

# Special Issue

## Advanced Control of Complex Dynamical Systems with Applications

### Message from the Guest Editors

Complex dynamical systems, which consist of multiple subsystems with intricate interactions, are pervasive across various fields such as engineering, chemistry, biology, and physics. Firstly, it allows us to understand emergent behavior, where collective patterns arise from individual interactions. Secondly, it helps optimize system efficiency in fields like engineering. Additionally, it aids in managing and mitigating the challenges associated with system complexity. It also enables us to predict and prevent system failures and design resilient systems capable of adapting and maintaining functionality. We are pleased to announce a Special Issue that aims to explore and showcase cutting-edge developments in the analysis and control of complex dynamical systems and their applications. We are particularly interested in articles that enhance our understanding of the observed phenomena in these systems through comprehensive analytic advancements, numerical simulations, and experimental testing.

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### Guest Editors

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### Deadline for manuscript submissions

10 September 2025



## Mathematics

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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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### Editor-in-Chief

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