

## Special Issue

# State-of-the-Art Dynamical Systems

### Message from the Guest Editor

This Special Issue is poised to explore the intricate interplay between theory and practice in the realm of dynamical systems.

Theoretical discussions within this Special Issue will span diverse domains, including spatial and temporal systems such as reaction-diffusion systems, characterized by a plethora of differential and difference equations. Time series analysis and digital signal processing represent pivotal areas of inquiry, reflecting the multifaceted nature of dynamical systems.

A key focus of this Special Issue lies in the qualitative analysis of dynamic systems, delving into stability, identification, observation, and control issues, particularly in the face of uncertainty. This emphasis underscores the significance of understanding the underlying dynamics for effective system management and decision making.

Practical applications showcased in this Special Issue will encompass a wide array of fields, including biomedicine. Moreover, the integration of dynamical systems theory into mechanical engineering, manufacturing, and management underscores its relevance across various industrial sectors.

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### Guest Editor

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### Deadline for manuscript submissions

closed (20 May 2025)



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

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