

Special Issue

Nonlinear Systems: Dynamics, Control, Optimization and Applications in Science and Engineering, 3rd Edition

Message from the Guest Editor

The aim of this Special Issue is to highlight papers that present the dynamics, control, optimization and application of nonlinear systems. This has recently become an increasingly popular subject, with impressive growth concerning applications in engineering, economics, biology, and medicine, and thus this Special Issue can be considered a veritable contribution to the literature. Original papers relating to the objective presented above are particularly welcome. Potential topics include, but are not limited to, the following:

- Stability analysis of discrete and continuous dynamical systems;
- Nonlinear dynamics in biological complex systems;
- Stability and stabilization of stochastic systems;
- Mathematical models in statistics and probability;
- Synchronization of oscillators and chaotic systems;
- Optimization methods of complex systems;
- Reliability modeling and system optimization;
- Computation and control over networked systems.

Guest Editor

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Deadline for manuscript submissions

closed (28 February 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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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).