

Special Issue

Stability and Control of Nonlinear Systems

Message from the Guest Editors

This Special Issue aims to provide a comprehensive platform for disseminating cutting-edge research that bridges theoretical developments with practical applications in stability analysis and control of nonlinear systems. Topics of interest include, but are not limited to, the following:

- Stability analysis techniques for nonlinear systems (Lyapunov methods, finite/fixed/predefined-time stability);
- Advanced control strategies (sliding mode control, adaptive control, model predictive control, backstepping control);
- Data-driven, AI-based, and machine learning control approaches for nonlinear systems;
- Neural network-based control and reinforcement learning applications;
- Bifurcation analysis and chaos control in nonlinear dynamical systems;
- Robust and fault-tolerant control design under uncertainties;
- Observer design and state estimation for nonlinear systems;
- Event-triggered control and sampled-data control strategies;
- Applications in power electronics, renewable energy systems, microgrids, and smart grids;
- Applications in robotics, autonomous vehicles, and industrial automation;
- Synchronization and consensus control of networked nonlinear systems.

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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