

Special Issue

Intelligent Control and Applications of Nonlinear Dynamic System

Message from the Guest Editors

The aim of this Special Issue is to bring together cutting-edge research that explores the intersection of intelligent control methodologies and the applications of nonlinear dynamic systems. We seek contributions that showcase innovative approaches to modeling, analysis, and control of these systems, leveraging intelligent control techniques to enhance system performance and robustness. Potential topics may include, but are not limited to, the following:

- Development of novel machine learning algorithms for pattern recognition and system identification in nonlinear dynamic environments.
- Adaptive and robust control strategies tailored for nonlinear systems exhibiting varying dynamics and uncertainties.
- Real-time control applications utilizing intelligent systems in robotics, automotive engineering, and other high-stake settings.
- Implementation of fuzzy logic control, neural networks, and genetic algorithms in optimizing the performance of nonlinear dynamic systems.
- Case studies elucidating practical applications and empirical results stemming from the integration of intelligent control in nonlinear dynamics.

Guest Editors

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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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