Special Issue

Nonlinear Control and Its Applications

Message from the Guest Editors

Nonlinear dynamical systems are pervasive in science and engineering, including robotics, biological networks, climate dynamics, power systems, and mechanical structures. Their intrinsic complexity-reflected in bifurcations, chaos, and multi-equilibria-presents both analytical and control challenges and opportunities for innovation. This Special Issue, "Advances in the Modeling and Control of Nonlinear Dynamical Systems", aims to highlight recent progress in mathematical modeling, analysis, and control of nonlinear systems. We welcome high-quality submissions on topics such as system identification, observer design, robust and adaptive control, optimal and predictive control, feedback linearization, and data-driven or machine learning-based approaches. We particularly encourage contributions that integrate theoretical insights with practical implementations. Both original research articles and comprehensive reviews are invited to promote innovation and interdisciplinary dialogue in this evolving field.

Guest Editors

Prof. Dr. Manuel Flota-Bañuelos Faculty of Engineering, Universidad Autónoma de Yucatán, Merida 97310, Mexico

Prof. Dr. Homero Miranda-Vidales

Centro de Investigacion y Posgrado, Facultad de Ingenieria, Dr. Manuel Nava #8, Zona Universitaria, San Luis Potosi C.P. 78290, Mexico

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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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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