Special Issue

Algorithmic Design for Control of Robotic Systems

Message from the Guest Editors

The continuous development of intelligent technologies has significantly enhanced the design, modeling, and deployment of control and robotic systems. In recent years, computational intelligence (CI) techniques— including neural networks, fuzzy logic, genetic algorithms, and hybrid systems—have become essential tools in addressing complex problems in industrial and service robotics, control system design, autonomous navigation, and adaptive control. This Special Issue aims to collect high-quality research contributions that apply CI methodologies to the development and optimization of robotic and control systems. Topics of interest include, but are not limited to, the application of machine learning for real-time control, neuro-fuzzy control architectures, swarm robotics, path planning, digital twins, and advanced optimization algorithms for robotic systems. We welcome original research articles, case studies, and review papers from both academia and industry that explore novel techniques, frameworks, and applications of computational intelligence in the realm of control and robotic systems. We look forward to your contributions.

Guest Editors

Dr. Jessica S. Ortiz

Dr. Guillermo Palacios-Navarro

Dr. Christian Carvajal

Deadline for manuscript submissions

31 May 2026

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.

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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