Special Issue

Computational Approaches to Control Systems: Methods and Applications

Message from the Guest Editors

This Special Issue aims to highlight the pivotal role of advanced computation methods as the cornerstone for next-generation control systems. This Issue aims to showcase how modern computational techniques are not merely supportive tools but are reshaping the very foundations of control theory and practice, enabling solutions to previously intractable problems and fostering new paradigms for intelligent and resilient system design. This Special Issue aims to collate high-quality research and review articles that present cutting-edge developments in computational algorithms and frameworks for the analysis, design, and implementation of control systems, focusing on the intersection of computational science and engineering applications, particularly in developing innovative algorithms for complex system modeling, simulation, and optimization. The Issue will provide a platform for discussing novel computational strategies that enhance our ability to tackle complex control problems, thereby contributing to the development of more efficient, adaptive, and intelligent systems.

Guest Editors

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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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