Special Issue

Simulation and Control in Engineering: Models, Algorithms, and Applications

Message from the Guest Editors

This Special Issue explores advancements in engineering simulation and control systems, focusing on mathematical modeling, computational algorithms, and real-world engineering applications. Topics include dynamic system modeling, optimization, AI-based control strategies, and digital twin technology. Emphasis is placed on interdisciplinary approaches integrating machine learning, data-driven modeling, and real-time control to improve efficiency, accuracy, and automation in industrial and manufacturing contexts. We welcome theoretical, experimental, and case study contributions that highlight the impact of simulation and control techniques. The issue serves as a platform for researchers, engineers, and practitioners working toward next-generation intelligent and autonomous systems. Topics of interest include: Applications of Optimization Algorithms; Control and Simulation Techniques; Artificial Intelligence in Control; Machine Learning for Control; Modeling and Control of Autonomous Systems; and Control of Multiagent Systems.

Guest Editors

Dr. Luis Arturo Reyes-Osorio

Prof. Dr. Octavio Garcia-Salazar

Dr. Aldo Jonathan Muñoz-Vazquez

Deadline for manuscript submissions

20 January 2026

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Mathematics

an Open Access Journal by MDPI

Impact Factor 2.2 CiteScore 4.6

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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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