

Special Issue

Dynamic Modeling and Simulation for Control Systems

Message from the Guest Editor

This Special Issue aims to cover important aspects about how to optimize the dynamic behavior of physical systems using special algorithms and artificial intelligence in the modeling, simulation, and optimization of the components and systems from important fields such as astronautics, aerospace, avionics, robotics, manufacturing systems, mechanical engineering, power energy, materials technology, and neurorehabilitation. It will be a useful guide on techniques for the modeling, simulation, and optimization of control systems in order to obtain acceptable dynamic behaviors. Topics for Special Issue:

- Design of physical engineering systems;
- Control of physical engineering systems;
- Mechanical, electrical, and fluid interaction of system components;
- Mathematical modeling;
- Dynamic behavior analysis;
- System response analysis;
- Feedback control systems;
- Numerical simulation of integrated systems;
- Software for dynamic simulation and optimization;
- Frequency response;
- Stability;
- Control and simulation of the isotope separation process;
- Case studies.

Guest Editor

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Deadline for manuscript submissions

closed (15 October 2022)



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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).