Special Issue

Dynamic Modeling and Simulation for Control Systems, 2nd Edition

Message from the Guest Editors

This Special Issue aims to cover important aspects of how to optimize the dynamic behavior of physical systems, including applying mathematical methods, algorithms and artificial intelligence to 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. Topics include but are not limited to:

- Design of physical engineering systems;
- Control of physical engineering systems;
- Mechanical, electrical and fluid interaction between system components;
- Mathematical modeling of control systems;
- Fuzzy logic and control systems;
- Dynamic behavior analysis;
- System response analysis;
- Feedback control systems;
- Numerical simulation of integrated systems;
- Fault detection and diagnosis;
- Networked control and time-delay systems;
- Frequency response;
- Stability;
- Control and simulation of the isotope separation process;
- Software for dynamic simulation and optimization.

Guest Editors

Prof. Dr. Adrian Olaru

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Prof. Dr. Catalin Alexandru

Deadline for manuscript submissions

closed (31 March 2024)

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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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