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Dynamic Modeling and Simulation for Control Systems, 2nd Edition

Guest Editors:

Prof. Dr. Adrian Olaru

Department of Robotics and Production Systems, University Politehnica of Bucharest, 060042 Bucharest, Romania

Prof. Dr. Gabriel Frumusanu

Manufacturing Science and Engineering Department, "Dunarea de Jos" University of Galati, 800201 Galati, Romania

Prof. Dr. Catalin Alexandru

Department of Product Design, Mechatronics and Environment, Transilvania University of Brasov, 500036 Brasov, Romania

Deadline for manuscript submissions:

closed (31 March 2024)

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.



Specialsue







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Editor-in-Chief

Prof. Dr. Francisco Chiclana

School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The iournal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering sociology. particularly those that and 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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