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Dynamic Modeling and Simulation for Control Systems, 2nd Edition

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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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Message from the Editor-in-Chief

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