Dynamic Modeling and Simulation for Control Systems

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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.

Special Issue

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Message from the Editor-in-Chief

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