Special Issue

Modeling, Simulation, Control and Optimization in Engineering with Applications

Message from the Guest Editors

The Special Issue on modeling, simulation, control and optimization (MSCO) aims to gather a collection of case studies, examples of application, and new optimization and simulation-based techniques specially oriented to facilitate the controller design task and its success behavior. Topics include but are not limited to the following:

- Mathematical modeling of physical systems.
- Simulation and optimization software.
- Computational processes in modeling, simulation and optimization.
- Optimisation approaches for control systems design
- Optimisation and modeling in artificial intelligence
- Modeling, simulation and optimization of coupled problems.
- Modeling and simulation-based decision support systems.
- Defining synthetic environments for engineering problems.
- Model predictive control
- Robust and adaptive control
- Modeling, simulation, control and optimization of industrial processes, electrical and energy systems, or transport systems.
- Modelling, control, navigation and guidance of unmanned vehicles

Guest Editors

Prof. Dr. Montserrat Gil-Martinez

Prof. Dr. Ramón Vilanova Arbós

Prof. Dr. Marian Barbu

Deadline for manuscript submissions

closed (31 March 2024)

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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