

Special Issue

Smart Mechatronics: Modeling, Instrumentation and Control

Message from the Guest Editors

In order to develop these applications in mechatronics, the design of a robust and effective control algorithm is crucial. Depending on the control objective, with the possibility to measure related signals and available hardware for implementation, the selected control algorithm varies from classical approaches such as PID and linear state feedback, robust control schemes such as sliding mode and adaptive control, and advanced methodologies such as intelligent control.

The control algorithm usually relies on the obtainment of a mathematical model that permits the selection of the correct control scheme and determination of its parameters, whose complexity is defined by the nature of the mechatronic system itself.

- systems and control engineering
- electronic engineering
- mechatronics
- robotics
- mechanical systems, machines, and related components
- machine vision
- machine diagnostics and prognostics (condition monitoring)

Guest Editors

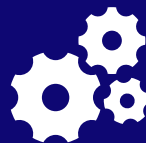
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closed (31 October 2023)



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Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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