



Smart Mechatronics: Modeling, Instrumentation and Control

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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)





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Message from the Editor-in-Chief

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