

Special Issue

Intelligent Mechatronics: Perception, Optimization, and Control

Message from the Guest Editors

Mechatronics systems are usually designed by using the principles of mechanics, electronics, and computing to generate simpler, more economical and reliable systems, which have received abundant attention from the modern industrial field. With the significant development of technology, more and more intelligent mechatronics systems are designed and used to replace parts of manual manipulations. However, the working properties of mechatronics systems may be complex and there still exist lots of open and challenging problems to be solved, which is regarded as one of the most popular research topics. This Special Issue welcomes, the research on intelligent mechatronics systems that could effectively improve the performance of the system including perception, optimization, and control. We believe that this Special Issue will contribute a practical and comprehensive forum for exchanging novel research ideas or empirical practices. Potential topics include but are not limited to:

- Intelligent designing and modeling of mechatronics;
- Deep learning;
- Optimization;
- Adaptive control;
- Vibration control;
- Learning control;
- Fault diagnostics;
- Other related topics on mechatronics.

Guest Editors

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Deadline for manuscript submissions

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About the Journal

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.

Editor-in-Chief

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).