Special Issue

New Challenges in Conceptual Design of Robotic and Mechatronic Systems: 2nd Edition

Message from the Guest Editors

The creation of a conceptual model of the mechatronic and robotic systems currently being designed is the actual task which is performed in the frames of automation and robotics, mechatronics, engineering design, computer-integrated manufacturing, computer-aided design, and other related subject fields. The conceptual model of the designed mechatronic object is usually created before generating the concrete mathematical models necessary to perform design tasks at the detailed design phase of the object life cycle.

The main aim of this Special Issue is to seek high-quality submissions that highlight emerging methods of the conceptual and detailed design of mechatronic systems and show the results of the design of specific robotic and other mechatronic systems, as well as the results of their practical implementation.

Topics of interest include, but are not limited to, the following:

- Engineering design methods;
- Mechatronic systems;
- Systems engineering;
- Modular robots;
- Robotics: companion robots, industrial robots, healthcare robots, and soft robots;
- Human–computer interaction.

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Deadline for manuscript submissions

closed (20 February 2025)

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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