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New Challenges in Conceptual Design of Robotic and Mechatronic Systems

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Message from the Guest Editors

The conceptual model creation of the mechatronic and robotic systems 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.

This model should be used at the conceptual design phase and allow to be easy transformed to the concrete mathematical models used at the detailed design phase of robotic and other mechatronic systems life cycles. The conceptual model should also take into account the connected descriptions of mechatronic subsystems of different nature, i.e. mechanical, electronic, electromechanical, and computer.

The Special Issue highlight emerging methods of conceptual and detailed design of mechatronic systems, show the results of specific robotic and other mechatronic systems design, 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; Human–computer interaction.

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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.

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