Intelligent Robotics and Mechatronics

Guest Editor:

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Deadline for manuscript submissions:
closed (31 December 2020)

Message from the Guest Editor

Robots, as incarnations of intelligent agents, have been widely applied in manufacturing, as well as service industries, and continue their increasing impact on our modern life. The ability of a robot to plan its own motions and actions, to make timely and logical decisions, and to cope with uncertainties in sensing, localization, and prediction, is pivotal to its full autonomy.

This special issue aims to present a collection of recent advancements in intelligent robotics and mechatronics in general, and the following topics in particular: applications of AI in planning, control, and operating of robots (e.g., manipulators, wheeled and legged mobile robots, parallel robots, etc.); implementing machine learning methods in robotic and mechatronic systems; advanced methods in robot motion planning, especially in real-time and under uncertainty; sensing and data processing for intelligent and informed decision-making; intelligent human-robot interaction and haptics; multi-robot coordination and cooperation, Internet of Things and networks of intelligent hard and soft agents; Industrie 4.0 and applications. Manuscripts on other related topics are also encouraged to be submitted.

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Special Issue

Editor-in-Chief

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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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