Special Issue

Human-Robot Systems: Modeling, Control and Prediction

Message from the Guest Editor

This Special Issue covers intelligent methods of designing intelligent interaction with bidirectional communication, based on collaboration and a symbiosis between human and robot. One aspect is the recognition of human intentions by the robot. Another aspect is the modeling of the human robot system that reflect the nonlinear nature of the system to be controlled. Another topic is the control problem in the human–robot interaction and the intention to compete or cooperate in common workspaces, and the corresponding flow of information. Intelligent approaches like fuzzy methods, neural nets, machine learning methods, deep learning etc. combined with classical approaches help in all these areas, also for collisions avoidance and for a co-operation between humans and robots. Prediction and learning of the human–robot behavior based on intelligent methods enables efficient task planning and execution. I invite you to submit your research on these topics, in the form of original research papers and articles.

Guest Editor

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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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