Human-Robot Systems: Modeling, Control and Prediction

Guest Editor:

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Deadline for manuscript submissions:
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Message from the Guest Editor

Dear Colleagues,

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.

Prof. Dr. Rainer Palm
Guest Editor

Special Issue

Editor-in-Chief

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Message from the Editor-in-Chief

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