



Advances in Robotic Manipulators and Their Applications

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Message from the Guest Editors

The interaction of robotic manipulators with their environment has always been an active topic in robotics. Robotic grasping is one of the fundamental and most challenging skills of robots. It demands robotic perception of the environment, planning, and control.

The research focus for grasping and manipulation has evolved from rigid manipulators and specialized grippers to robotic arms and hands that can perform various tasks in unstructured environment and scenarios.

This Special Issue will be dedicated to new advances and findings in hardware and software solutions for robotic manipulators.

Subjects that will be discussed in this Special Issue will focus on robotic hand design, hand sensor and actuator design, force and tactile sensing, grasping force control, user interfaces, multimodal sensing, sensor-based control, grasping planning and contact modelling, as well as artificial neural networks in intelligent grasping and manipulation. We welcome papers presenting multidisciplinary and state-of-the-art research and applications of robotic manipulators in various fields, such as agriculture, industry, and human-robot 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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