



Multimodal Robot Intelligence for Grasping and Manipulation

Guest Editor:

Prof. Dr. Tae-Seong Kim

Department of Biomedical Engineering, College of Electronics and Information, Kyung Hee University, Yongin 17104, Republic of Korea

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Message from the Guest Editor

Robot intelligence is an exciting interdisciplinary field that includes robotics, machine learning, pattern recognition, and visuomotor/sensorimotor controls. The aim of robot intelligence for grasping and manipulating objects is to achieve the dexterity of grasping and manipulation in humans. Recently, advancements in machine learning methods, particularly deep learning, have accelerated the growth of this new discipline, such that robots can learn to grasp and manipulate various objects autonomously, similarly to humans.

This Special Issue intends to share novel ideas and works of researchers and technical experts in the field of robot intelligence based on multi-modalities such as vision, language, etc.

This Special Issue is dedicated to high-quality, original research papers in the overlapping fields of:

Multimodal artificial intelligence for grasping and manipulation;

Signal-arm and dual-arm robot intelligence

Robotics for dexterous grasping and manipulation;

Anthropomorphic grasping and manipulation;

Short- and long-horizon grasping and manipulation;

Artificial intelligence, machine learning, deep learning, deep reinforcement learning in robotics;





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Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
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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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MDPI, Grosspeteranlage 5
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