Special Issue

Recent Advances in Assistive Robots

Message from the Guest Editor

Assistive robots have been the subject of great research endeavors, aiming to develop companions that on the one hand can improve the quality of life for people suffering from pathological diseases, mobility limitations, or loneliness, and on the other hand, can extend the independent living of elderly people. To allow the ambient entrance of robots into our life that will offer assistive services of value, significant efforts are required from the community in order to create robot companions that act and behave predictably in a human-compatible logic, being also capable of resolving specific assistive tasks, while simultaneously building social bonds with their cohabitants that allow for their unsupervised operation in realistic environments. This Special Issue focuses on the recent advances in assistive robots and encourages scientists to submit their outstanding work towards addressing this issue, focusing on the topics listed below:

- Holistic human–robot interaction schemes
- Robot task planning in assistive leaving
- Robot decision making and prompting interaction
- Robot navigation and SLAM in natural unconstrained environments

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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