

Special Issue

Perception and Cognition Technologies in Assistive Robots for Domestic and Industrial Environments

Message from the Guest Editor

Assistive robots have witnessed great research endeavors during the last few decades, aiming to develop companions and true collaborators that can improve, on one hand, the quality of life for people and, on the other hand, working conditions. To deploy such robots into market for operating in real domestic and industrial environments, certain robotic applications should be addressed with repeatability and robustness. Although significant efforts have already been put on the advancement of perception, cognition and action skills of robots, contemporary robots still suffer from their limited and isolated abilities, lack of integrated active solutions, and limited dependability. This necessitates the development of robot collaborators. Potential topics of this Special Issue include but are not limited to:

- Holistic human–robot interaction schemes
- Robot task planning for collaborative tasks
- human–robot collaboration
- Robot behavior regulation based on human activities
- Smart robot architectures in realistic environments
- Perception guided safe robot manipulation
- Robot application tasks with smart environments and IoTs

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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