

Special Issue

Smart Robots for Industrial Applications

Message from the Guest Editor

Robots are playing a crucial role in manufacturing sectors. In recent years, their use has surpassed the traditional concept according to which robots can just be used in repetitive tasks. The introduction onto the market of collaborative robots has opened new scenarios in which automation is no longer an alternative to human work, but, on the contrary, is a support, and humans and robots work in synergy with each other. At the same time, the development of artificial intelligence and the progress in mechatronics allow the creation of complex systems for the most varied tasks—robotic systems can be successfully applied not only in production sites, but can have wide applications in several scenarios, such as the inspection of harsh environments, automatic quality checks, and the maintenance of both industrial and civil infrastructures.

Therefore, the objective of this Special Issue is to compile recent advances in robotics and automation, with a particular focus on novel industrial applications and service robotics.

Keywords:

service robotics;
industrial inspection;
robotics and mechatronics;
smart manufacturing;
Industry 4.0;
human–robot interaction;
robotics and automation.

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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