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Innovative Robot Designs and Approaches

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Deadline for manuscript submissions:
closed (10 November 2021)

Message from the Guest Editors

Dear Colleagues,

At present, the implementation and role of robots are rapidly changing while attracting increasing interest in innovative solutions within a fast-growing potential market in novel fields such as service robotics, surgical and rehabilitation robotics, and assistive robotics.

A valuable example is given by cable-driven parallel robots (CDPRs), as their conceptual design can provide a key performance in terms of large workspace, reconfigurability, large payload capacity, and dynamics. The interest of researchers is focused on their novelty and open issues originating from the nature of cables.

This Special Issue aims at attracting cutting-edge research and review articles on any innovative robot. Papers are particularly welcome on topics that are related to theory, design, practice, and applications of robots, including but not limited to the following:

Innovative design methods and solutions;
Innovative robotic architectures;
Novel applications;
Novel modeling and simulation approaches (including kinematics, dynamics, motion planning);
Innovative control approaches;
Safety-related issues.

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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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