Topical Collection

Advances in Automation and Robotics

Message from the Collection Editors

Despite the great progress made, automation and robotics are still far from reaching their maximum potential. The unstoppable rise of digitalization and automation will redefine manufacturing processes within the framework of Industry 4.0, improving efficiency and competitiveness. However, a great research effort is still required, not only to develop faster, more intelligent, and more autonomous robots, but also to endow these systems with new cognitive skills and with the ability to collaborate, learn, and adapt to complex changing environments and tasks. Therefore, the objective of this Special Issue is to compile recent advances in robotics and automation. The topics of interest include but are not limited to:

- Modeling, identification and control of robotic systems;
- Intelligent robotics, mechatronics and biomimetics;
- Industrial and collaborative robots;
- Field and service robots;
- Perception for robotics and automation;
- Agile locomotion and dexterous manipulation;
- Al in robotics and automation;
- New applications for robotics and automation.

Please do not hesitate to contact us if you have any doubts regarding your submission.

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About the Journal

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 multidimensional network.

Editor-in-Chief

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