Special Issue

World of Soft Actuators and Soft Robotics

Message from the Guest Editor

Soft robots composed of soft materials have become a research hotspot in robotics due to their large deformations, excellent adaptability, and safe interactions. They show broad application prospects in prosthetics, medical treatment, industrial lines, agricultural harvesting, and deep-sea exploration. In recent years, new methods and technologies related to the actuation, perception, variable stiffness, and other functions of soft robots have emerged, involving innovations in the design, manufacturing, and intelligent control of soft materials and structures. Therefore, this Special Issue aims to gather the latest interdisciplinary research achievements from materials science, mechanical engineering, biomechanics, bionics, and computer science to promote the development of soft robot technology. We welcome submissions related to the following:

- Design, fabrication, and modeling of soft materials;
- Soft actuators;
- Flexible sensors;
- Variable-stiffness structures;
- Bionic design of soft robots;
- Modeling, simulation, and control of soft robots;
- Multi-functional integration of soft robots;
- Application cases of soft robots.

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.

Editor-in-Chief

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