Special Issue

Biomedical Applications of Soft Robotics

Message from the Guest Editor

Soft robotic devices have desirable traits for biomedical applications, owing to their mechanical and biological compatibility with the tissue, as well as their ability to achieve large changes in volume, shape, and stiffness. In this Special Issue, we invite submissions exploring soft robotics devices which are currently being used or have the potential to be used in biomedical applications across scales including diagnosis, prehabilitation, therapy, and post-operative monitoring. Of high interest are devices:

- Integrating soft proprioceptive, exteroceptive, and diagnostic sensors;
- Exploring soft and bidirectional actuation methodologies;
- Combining both therapeutic and diagnostic capabilities;
- Which are modular and/or scalable;
- Which are untethered, self-propelling;
- Allowing phase, shape and volume changes;
- Based on novel fabrication methodologies and new materials, aside molding;
- Working towards regulatory compliance and certification

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2021)

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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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