



Biomedical Applications of Soft Robotics

Guest Editor:

Dr. George Mylonas

The Hamlyn Centre, Imperial
College London, London W2 1NY,
UK

Deadline for manuscript
submissions:

closed (30 April 2021)

Message from the Guest Editor

Dear Colleagues,

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





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)