



Design and Control of Soft Robots: Trends and Prospects

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Message from the Guest Editors

Dear Colleagues,

Robotic devices and systems made of soft materials have gained attention over recent decades. Compared to robots with fully rigid components, soft robots provide compliant, adaptive, and safe interactions with the surrounding environments. Thus, a deeper understanding of the design and control of soft robots will further improve their performance toward diverse applications in real-world scenarios, including, but not limited to, wearable devices, medical devices, and bioinspired systems.

This Special Issue aims to invite original research papers focusing on state-of-the-art, advanced soft robotics. Our particular interests reside in original works that demonstrate pioneering research in the design and control of soft robots with real-world impacts. We hope that this Special Issue can be informative and inspire readers to develop new ideas about the future of soft robotics.

Keywords:

- soft robotic design
- bioinspired design
- soft robotic modeling and control
- simulation for soft robotics
- soft medical devices
- machine learning in soft robotics
- development of soft robotic systems
- applications of soft robots





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Message from the Editor-in-Chief

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Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

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