Special Issue

Artificial Muscles and Soft Actuation

Message from the Guest Editors

Soft actuators show great potential due to their different characteristics from conventional actuators. Artificial muscles receive particular attention, and have achieved attractive results in many fields including biomimetics, assisting orthoses, musculoskeletal robots, etc. This Special Issue broadly welcomes contributions related to artificial muscles and soft actuation systems, from materials to applications, including but not limited to the following topics:

- New artificial muscles and soft actuators;
- Design, modeling, and control methodology;
- Materials and fabrication processes;
- Social and industrial applications.

We believe this Special Issue provides an excellent platform for spreading your contributions in this area. We look forward to your submissions.

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About the Journal

Message from the Editorial Board

We are just entering the Next Wave of Technology (NWT) where actuators will play the same role as the computer chip did for computers/social media approximately four decades ago. Just in the U.S., production of $1 trillion year of electromechanical systems (vehicles, orthotics, manufacturing cells, freight trains, aircraft, etc.) will be impacted by the NWT, all driven by actuators. Five key trends can be found for the future perspectives: “Performance to Reliability”, “Hard to Soft”, “Macro to Nano”, “Homo to Hetero” and “Single to Multi functional”. We invite papers that primarily impact these economic sectors; those illustrating basic scientific principles are also welcome.

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