Special Issue

Soft Actuators for Medical Robotics

Message from the Guest Editors

We are pleased to invite you to submit your original research or review articles to our Special Issue entitled “Soft Actuators for Medical Robotics”. In recent decades, the exploitation of soft matter and variable stiffness technologies in medical robotics have allowed for the development of even more sophisticated devices able to guarantee compliant and safe interactions with the human body. This Special Issue aims to highlight novel scientific routes of soft robotics in medical applications, with a particular focus on soft and active materials as well as different actuation strategies.

Guest Editors

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Deadline for manuscript submissions

closed (30 April 2024)

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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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