Special Issue

Mechanism Design and Control for Robotics

Message from the Guest Editors

Mechanism design and control are two important aspects in recent robotics. This Special Issue is devoted to coverage of mechanism design and their associated control system for robotics. This Special Issue will cover, but is not limited to, the following topics:

- Integrated design of mechanism, actuation and control;
- Reconfigurable mechanisms and robots;
- Deployable mechanisms;
- Metamorphic mechanisms and robots;
- Variable topology modelling;
- Origami mechanisms and engineering applications;
- Bio-inspired mechanisms;
- Compliant mechanisms;
- Morphing mechanisms and applications.

Guest Editors

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Prof. Dr. Wenfu Xu

Prof. Dr. Chenglong Fu

Deadline for manuscript submissions

closed (30 November 2022)

Actuators

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.3

mdpi.com/si/99165

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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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