Special Issue

Actuators and Robotic Devices for Rehabilitation and Assistance

Message from the Guest Editors

In this Special Issue, we would like to present recent research findings and novel approaches in the field of Actuators and Robotic Devices for Rehabilitation and Assistance. This includes but is not limited to:

- Robotic rehabilitation devices;
- Robotic assistance devices;
- Rehabilitative or assistive device control;
- Rehabilitative or assistive actuation;
- Exoskeletons for rehabilitation or assistance;
- End-effector robots;
- Service robotics;
- Series-elastic actuators;
- Pneumatic artificial muscles;
- Soft actuators;
- Supernumerary extra limbs;
- Wearable robots.

Guest Editors

Dr. Monica Tiboni

Dr. Monica Malvezzi

Dr. Maria Cristina Valigi

Deadline for manuscript submissions

closed (31 March 2025)

Actuators

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.3

mdpi.com/si/196559

Actuators
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
actuators@mdpi.com

mdpi.com/journal/actuators

Actuators

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.3

mdpi.com/journal/actuators

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.

Editors-in-Chief

Prof. Dr. Kenji Uchino
Emeritus Academy Institute, The Pennsylvania State University, University Park, PA 16802, USA

Prof. Dr. Norman M. Wereley
Department of Aerospace Engineering, University of Maryland, 3179J Martin Hall, College Park, MD 20742, USA

Author Benefits

Open Access:

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

High Visibility:

indexed within SCIE (Web of Science), Scopus, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1 (Control and Optimization)

MDPI