

Special Issue

Motion Planning and Control of Robot Systems

Message from the Guest Editors

As various types of robots begin to be applied in industry and human life, research on systematic approaches for robot motion planning and control has been in progress in recent years. This Special Issue is devoted to coverage of motion planning and control for robotic systems in different applications. Original papers and survey papers are welcome. Topics of interest for this collection include but are not limited to:

- motion planning
- control algorithm
- force/torque control
- robust control
- manipulators
- mobile robotics
- multirobot systems

Guest Editors

Prof. Dr. Myun Joong Hwang

Department of Mechanical and Information Engineering, University of Seoul, Seoulsiripdaero 163, Dongdaemun-gu, Seoul 02504, Korea

Dr. Maolin Jin

Korea Institute of Robots and Convergence, Pohang 37666, Gyeongsanbuk-do, Korea

Deadline for manuscript submissions

closed (31 December 2023)



Actuators

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.3



mdpi.com/si/147017

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

[mdpi.com/journal/
actuators](https://mdpi.com/journal/actuators)





Actuators

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 4.3



[mdpi.com/journal/
actuators](https://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

Electrical Engineering, Emeritus Academy Institute, 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)