

Special Issue

Advanced Technologies and Applications in Robotics

Message from the Guest Editors

Robotics integrate a broad spectrum of multidisciplinary areas in computer science and engineering, ranging from fundamental research to real-world practical applications. The large diversity of the design, construction, operation, and use of robots brings both challenges and opportunities to our research community. This Special Issue aims to provide a forum for scientists, engineers, scholars, and students to exchange ideas and update technical knowledge and provide a platform where joint research programmes can be formulated for mutual benefit. The Special Issue welcomes participation and contributions from those involved in both theoretical and practical research on all aspects of robotics. This Special Issue also cooperates with the twenty-seventh International Conference on Automation and Computing (ICAC2022, <http://www.cacsuk.co.uk/index.php/icac2022>), held at the University of the West of England, Bristol, UK, on 1–3 September 2022. Authors of outstanding papers on topics related to the Special Issue presented at the conference are invited to submit extended versions of their work to this Special Issue.

Guest Editors

Dr. Jing Wang

Prof. Dr. Zhijie Xu

Dr. Zhenyu Lu

Dr. Jonathan Gomez

Deadline for manuscript submissions

closed (30 April 2023)



Actuators

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.3



mdpi.com/si/124014

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 2.2
CiteScore 4.3



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



About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

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