

## Special Issue

# Advanced Actuation and Control in Intelligent Robots and Autonomous Systems

### Message from the Guest Editors

This Special Issue focused on the design, integration, and optimization of actuation and control mechanisms in autonomous and robotic platforms.

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### Guest Editors

Dr. Mohamed Reda  
Prof. Dr. Ahmed Mahmoud Onsy  
Dr. Ali Ghanbari

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### Deadline for manuscript submissions

31 January 2026



## Actuators

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*Actuators*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[actuators@mdpi.com](mailto:actuators@mdpi.com)

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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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### 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

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