# Special Issue

# Actuators in Robotic Control—2nd Edition

## Message from the Guest Editor

Robotic control is the system that contributes to the movement of robots. Robotics could be controlled in various ways, including using manual control, wireless control, semi-autonomously (a mix of fully automatic and wireless control), and fully autonomously (using AI to move alone, with the potential option of manual control). In the present day, as technological advancements progress, robots and its methods of control continue to develop and advance. Actuation, such as electric, hydraulic, pneumatic, etc., is often called the muscles of robots. To ensure that all of the components of a robot are soft and flexible, actuators should provide their movements in limited spaces and change gaits fairly easily. New actuator designs, control techniques, and integration techniques for robots have been developed to satisfy sophisticated demands. Innovation in actuators is one of the most important subjects for next-generation robotics. This Special Issue will focus on progress in actuators in robotic control in different applications. Original papers and survey papers are welcome.

## Guest Editor

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## Deadline for manuscript submissions

closed (30 September 2024)

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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.

## Editors-in-Chief

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