

## Special Issue

# Intelligent Robotic and Prosthetic Hands: Design, Control and Application

### Message from the Guest Editors

We invite investigators to contribute original research articles and review articles addressing robotic/prosthetic hands that facilitate advances in rehabilitation, such as brain-machine interfaces, neuroprosthetics, rehabilitation robots, and human support robots.

Potential topics include but are not limited to:

New design as close to the natural hand as possible;  
Control methods for motor or sensory function;  
Neuroprosthetics and rehabilitation systems;  
Assistive technologies for stroke/old patients;  
Personalized rehabilitation interfaces for adapted physical activity;  
New sensors and actuator techniques.

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### Guest Editors

Dr. Duk Shin

Tokyo Polytechnic University, Kanagawa, Japan

Dr. Chao Chen

Tianjin University of Technology, Tianjin, China

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### Deadline for manuscript submissions

closed (30 September 2022)



## Actuators

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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

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