

# Special Issue

## Actuators and Dampers for Vibration Control: Damping and Isolation Applications - Volume II

### Message from the Guest Editors

Low vibration levels are required in multiple and diverse applications. These applications can be viewed from the vibration and isolation damping point of view. Vibration damping may be required in several applications, such as precise positioning or trajectory tracking in applications such as robotics or nanopositioners.

Vibration damping is also important to solve vibration serviceability issues in civil structures. Contributions from all fields related to actuators and dampers are welcome in this Special Issue, particularly the following:

- Passive, semi-active, and active actuators used in damping and isolation applications;
- Practical implementation issues of actuators in damping and isolation applications;
- Optimization of isolation and damping vibration systems;
- Vibration control in civil structures induced by wind, earthquakes, and humans;
- Trajectory tracking in nanopositioner applications;
- Robotics applications with flexibility in links or joints;
- Vibration isolation in aerospace and defense applications;
- Vibration isolation in extremely low vibration level applications

---

### Guest Editors

Dr. Emiliano Pereira González

Department of Signal Processing and Communications, Universidad de Alcalá, Madrid, Spain

Dr. Sumeet S. Aphale

School of Engineering, University of Aberdeen, Aberdeen, UK

---

### Deadline for manuscript submissions

closed (10 March 2024)



# Actuators

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.3  
CiteScore 4.3



[mdpi.com/si/136112](https://mdpi.com/si/136112)

*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](http://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

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

---

### 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)

