actuators

an Open Access Journal by MDPI

IMPACT FACTOR 2.3

CITESCORE 4.3

High Power/High Precision Actuators

Guest Editors:

Prof. Dr. No-Cheol Park
School of Mechanical Engineering, Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul 03722, Korea

Dr. Jun Young Yoon
School of Mechanical Engineering, Yonsei University, 50 Yonsei-ro, Seodaemun-gu, Seoul 03722, Korea

Deadline for manuscript submissions:
closed (15 October 2021)

Message from the Guest Editors

Dear Colleagues,

During the past few decades, high power/high precision actuators have been developed in depth and variety, and their applications have been greatly expanded. However, there are still many technical and academic issues to be solved to expand the application of high power/high precision actuators including emerging fields such as electric vehicles. In this respect, we are pleased to announce a new Special Issue for "High Power/High Precision Actuators" which aims to point out major advances and new evolutions in the design and application of these actuators. This Special Issue will collect original articles and reviews highlighting the following topics (but not necessarily limited to):

- Design and analysis of high power/high precision actuators
- Multi-disciplinary issues in high power/high precision actuators
- Novel driving mechanisms of high power/high precision actuators
- Improving the power density of high power actuators
- Various applications of high power/high precision actuators
- High precision control with high power/high precision actuators

We look forward to your valuable contributions.

mdpi.com/si/80514

actuators

an Open Access Journal by MDPI

IMPACT FACTOR 2.3

CITESCORE 4.3

Editors-in-Chief

Prof. Dr. Kenji Uchino
Electrical Engineering, Emeritus Academy Institute, 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

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.

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)

Contact Us

Actuators Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/actuators
actuators@mdpi.com
𝕏@Actuators_MDPI