Special Issue

Cable-Driven Parallel Robots and Their Applications

Message from the Guest Editor

Cable-Driven Parallel Robots (CDPR) can work in large spaces and possess relatively high accuracy and stability, providing higher versatility in large spaces without the need for massive support systems. In recent years, numerous CDPRs have been conceived, tested and developed in different sectors and industries such as agriculture, construction and manufacturing. Moreover, novel controlling and positioning algorithms have permitted higher performance capabilities of CDPR, as well as the end-effectors that perform tasks. The Special Issue is seeking articles that outline the latest developments in these areas.

Guest Editor

Dr. Kepa Iturralde

Chair of Building Realization and Robotics, Department of Architecture, Technical University of Munich, 8033 Munich, Germany

Deadline for manuscript submissions

closed (30 January 2024)

Actuators

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.3

mdpi.com/si/163130

Actuators
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
actuators@mdpi.com

mdpi.com/journal/actuators

Actuators

an Open Access Journal by MDPI

Impact Factor 2.3
CiteScore 4.3

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)

MDPI