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Cable-Driven Parallel Robots and Their Applications

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)

Message from the Guest Editor

Dear Colleagues,

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.

Dr. Kepa Iturralde
Guest Editor

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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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Contact Us

Actuators Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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