

Special Issue

Advances in Mechanism Design for Robots

Message from the Guest Editor

Robots are mechatronic systems of which functionalities and tasks are related to mechanical actions either with humans or with other systems. Therefore, the mechanical design can be considered fundamental to ensure the proper performance that are expected by a robot in an assigned task. In this Special Issue we have directed the main attention to the design and development of the mechanical design of robots by looking at the advances in solutions and procedures that can provide enhancements in robot structures and their functionalities even in new areas of application. Papers are solicited not only in the following topics that are related to robot structures and architectures:

- Mechanism designs
- Kinematics of robots
- Robot path planning
- Prototypes
- Experimental evaluations
- Applications
- Control mechanisms
- Multi-body dynamics design
- Design procedures
- CAD design and simulations

Guest Editor

Prof. Dr. Marco Ceccarelli

LARM2: Laboratory of Robot Mechatronics, Department of Industrial Engineering, University of Rome Tor Vergata, Via del Politecnico 1, 00133 Roma, Italy

Deadline for manuscript submissions

closed (31 July 2017)



Inventions

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 4.9



mdpi.com/si/8372

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

[mdpi.com/journal/
inventions](https://mdpi.com/journal/inventions)





Inventions

an Open Access Journal
by MDPI

Impact Factor 1.9
CiteScore 4.9



[mdpi.com/journal/
inventions](https://mdpi.com/journal/inventions)



About the Journal

Message from the Editorial Board

The unique journal *Inventions* is different from all other journals. Many scholars spend their lives publishing research papers in many different journals, but most of these journals do not help scholars collate and analyze their results or assist in promoting them to a relevant industry. However, *Inventions* will help authors not only to publish their papers in the journal, but also to promote their research results to industry and assist them in realizing the purpose of technology transfer. In the future, *Inventions* will help authors to evaluate their technology license fees based on the valuation theory and approaches and also help authors to show their patents and technologies on a network transaction platform.

Editors-in-Chief

Prof. Dr. Chien-Hung Liu

Department of Mechanical Engineering, National Chung Hsing University, 250 Kuo Kuang Rd., Taichung 402, Taiwan

Prof. Dr. Shouu-Jinn Chang

Department of Electrical Engineering, National Cheng Kung University, Tainan 701, Taiwan

Author Benefits

High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, Ei Compendex and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.9 days after submission; acceptance to publication is undertaken in 4.6 days (median values for papers published in this journal in the second half of 2025).