



Design and Control of Industrial Robots

Guest Editor:

Prof. Dr. Sever-Gabriel Racz

Industrial Machines and
Equipment Department, Faculty
of Engineering, Lucian Blaga
University of Sibiu, Sibiu,
Romania

Deadline for manuscript
submissions:

closed (15 February 2023)

Message from the Guest Editor

Dear Colleagues,

This Special Issue aims to explore what solutions are currently being studied to overcome this situation. Papers on one or more of the following topics are especially expected:

- Simulation of robotic operations requiring continuous path control taking into consideration both kinematics and dynamics of the robotic structure;
- Robotic machining and other robotic applications requiring continuous path control;
- Design of working units and end-effectors for robotic operations requiring continuous path control;
- Design and implementation of auxiliary units for robotic cells;
- Strategies for reducing forces and torques during robotic operations requiring continuous path control;
- Optimal placement of the processed object (workpiece, part or others) in the robot workspace to reduce energy consumption during the process;
- Control strategies to improve the accuracies of the parts processed by robotic machining;
- New sensor systems to measure forces and torques within the robotic processes requiring continuous path control.





an Open Access Journal by MDPI

Editor-in-Chief

**Prof. Dr. Antonio J. Marques
Cardoso**

CISE—Electromechatronic
Systems Research Centre,
University of Beira Interior,
Calçada Fonte do Lameiro, P-
6201-001 Covilhã, Portugal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank: JCR - Q2 (Engineering, Mechanical) / CiteScore - Q2 (Control and Optimization)

Contact Us

Machines Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/machines
machines@mdpi.com
[X@Machines_MDPI](https://twitter.com/Machines_MDPI)