



Development of Robotic and Hybrid Manufacturing Systems for Machining in Smart Factories

Guest Editors:

Prof. Dr. José Enrique Ares Gómez

Deseño na enxeñaría,
Universidade de Vigo, Sede
Campus, 36310 Vigo, Spain

Dr. Iván Iglesias Sánchez

Deseño na Enxeñaría,
Universidade de Vigo, Sede
Campus, 36310 Vigo, Spain

Dr. Luís Pinto Ferreira

Department of Mechanical
Engineering, ISEP–School of
Engineering, Polytechnic of
Porto, 4200-465 Porto, Portugal

Deadline for manuscript
submissions:

closed (30 September 2024)

Message from the Guest Editors

The strong interest from manufacturing industries in the development and implementation of robotic and hybrid machining systems, due to their cost-saving potential, has prompted one of the most significant trends in technological research to advance this field of knowledge. This Special Edition aims to gather innovative contributions on this topic from perspectives focusing on the design and development of novel solutions that represent a step forward in the integration of systems in smart factories. Specifically, contributions can address aspects of "Design and development of methods, methodologies, or techniques for...":

- Trends and challenges in the development of robotic and hybrid machining solutions.
- Intelligent, intuitive, and robust control to estimate or compensate for trajectory deviations during the additive manufacturing and machining process.
- Methodologies, methods, or techniques for the design of robotic hybrid manufacturing systems.
- Integration of Industry 4.0 technologies to introduce improvements in the implementation of robotic manufacturing process.
- Human-machine interfaces for user interaction and training.





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)