

Special Issue

Smart Industrial Robotics: Intelligent Control, Optimization, and AI-Enabled Systems

Message from the Guest Editor

We welcome original contributions addressing intelligent control strategies, learning-based motion planning, cognitive and autonomous control, multi-robot coordination, optimization algorithms for task allocation and scheduling, and AI-driven perception and decision-making. Topics of interest also include human-robot collaboration, digital twins, edge/cloud robotics, Industry 4.0 integration, and data-driven predictive maintenance. In addition to methodological innovations, this Special Issue encourages application-oriented studies demonstrating validated deployment in various areas, including, but not limited to, advanced manufacturing, smart logistics and transportation, autonomous assembly, inspection, healthcare robotics, and other industrial domains. By bridging theoretical advances with practical implementations, this Special Issue is dedicated to fostering interdisciplinary research and providing a comprehensive view of emerging intelligent robotic technologies and systematic frameworks that aim to shape the next generation of smart industrial systems.

Guest Editor

Dr. Zhen Gao

W Booth School of Engineering Practice & Technology, McMaster University, Hamilton, ON L8S 4K1, Canada

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

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About the Journal

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.

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

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