



## **New Trends in Robotics and Automation**

Guest Editors:

**Prof. Dr. Jian Wu**

School of Mechanical and  
Automotive Engineering,  
Liaocheng University, Liaocheng  
252000, China

**Dr. Xiangkun He**

School of Mechanical and  
Aerospace Engineering, Nanyang  
Technological University,  
Singapore

**Dr. Guangfei Xu**

School of Mechanical and  
Automotive Engineering,  
Liaocheng University, Liaocheng  
252000, China

Deadline for manuscript  
submissions:

**31 July 2024**

### **Message from the Guest Editors**

Robotics and automation technologies have been widely leveraged in diverse domains such as agriculture, healthcare, and transportation, and they have had significant societal impacts and benefits. This Special Issue is proposed here to provide a forum for researchers and practitioners to exchange their latest theoretical and engineering achievements. This special issue aims to compile the latest research and development advances in robotics and automation. The topics of interest within the scope of this special issue include (although not limited to) the following:

- Intelligent control in robotics;
- Intelligent connected vehicles;
- Trustworthy artificial intelligence;
- Artificial intelligence technology applied in intelligence system;
- Modeling and control of human-machine system;
- System state information acquisition and parameter identification;
- Application of linear and nonlinear analysis and control;
- Decision-making and control with multi-source information;
- Decision-making and control for multi-agent system.





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*)

## **Contact Us**

---

*Machines* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/machines](http://mdpi.com/journal/machines)  
[machines@mdpi.com](mailto:machines@mdpi.com)  
X@Machines\_MDPI