

# Special Issue

## Digital Twins in Robotics

### Message from the Guest Editors

This Special Issue aims to collect and organize the literature on novel approaches, cases, and investigations on “Digital Twins in Robotics”. We welcome the submission of any type of paper on topics such as:

1. Digital twins in robotics and related infrastructures for simulation and modeling;
2. Applications of Internet of Things, big data, and extended reality to digital twins in robotics;
3. Applications of wearable technologies and computing to digital twins in robotics;
4. Digital twins in robotics and cobotics for industrial applications;
5. Digital twins in robotics for healthcare, surgery, assistance, rehabilitation, and prosthetics;
6. Digital twins in robotics for education and training;
7. Interacting with digital twins (and Phygital twins) in robotics;
8. Digital twins in human–robot interaction design and robot ergonomics;
9. Ethical and legal issues of digital twins in robotics.

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### Guest Editors

Prof. Dr. Giacinto Barresi  
Dr. Dejiu Chen  
Prof. Dr. Giuseppe Carbone

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### Deadline for manuscript submissions

closed (31 July 2025)



## Machines

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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.

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### Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso  
CISE–Electromechatronic Systems Research Centre, University of  
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