



Robot Teleoperation Integrating with Augmented Reality

Guest Editors:

Dr. Hang Su

IBISC Laboratory, Paris-Saclay
University, Paris, France

Prof. Dr. Lorenzo Pollini

Department of Information
Engineering, University of Pisa,
Pisa, Italy

Deadline for manuscript
submissions:

31 December 2024

Message from the Guest Editors

Dear Colleagues,

As robotics technology continues to evolve, the integration of augmented reality (AR) with robot teleoperation is emerging as a transformative approach, enhancing how humans interact with and control robots across various domains. Robots are now being employed in more complex scenarios. The inclusion of AR into teleoperation opens up new avenues for increasing the accuracy, safety, and efficiency of these robotic applications.

This Special Issue aims to showcase research that pushes the boundaries of AR integration with teleoperated robotic systems, addressing technical challenges, innovations in user experience, and advances in system integration.

We invite authors to submit research that explores innovative methods, approaches, designs, concepts, and software tools tailored to enhancing robot teleoperation through the use of augmented reality. Topics of interest include, but are not limited to, AR interface design, sensory feedback enhancement, the adaptation of control systems for AR, and empirical studies assessing the impact of AR on teleoperation efficacy.

Guest Editors





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marco Ceccarelli

LARM2: Laboratory of Robot
Mechatronics, Department of
Industrial Engineering, University
of Rome Tor Vergata, Via del
Politecnico 1, 00133 Roma, Italy

Message from the Editor-in-Chief

It is my great pleasure to welcome you to our open access journal, *Robotics*, which is dedicated to both the foundations of artificial intelligence, bio-mechanics and mechatronics, and the real-world applications of robotic perception, cognition and actions. The 21st century is the robotics century and intelligent robots will change our lifestyle forever. Let us work together toward the realization of intelligent robots step by step.

It is great fun to create intelligent robots and imagine their practical applications. *Robotics* is now ready to serve you in the long journey towards such a goal.

Author Benefits

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

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

Journal Rank: JCR - Q2 (*Robotics*) / CiteScore - Q1 (Control and Optimization)

Contact Us

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

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

mdpi.com/journal/robotics
robotics@mdpi.com
[X@RoboticsMDPI](https://x.com/RoboticsMDPI)