

Special Issue

Recent Advances in Medical Robotics

Message from the Guest Editors

This Special Issue aims at exploring new trends and challenges of designing, developing and validating user-centred HMIs, including feedback and control strategies, for medical robotics. Authors are encouraged to submit both original research and review articles relevant to the field of medical robotics, focusing on, but not limited to, the following topics:

- Multimodal control interfaces for medical robots;
- Sensory feedback;
- Mechanical design of HMIs for medical robots;
- Haptic devices for medical applications;
- Tele-operation in medical robotics;
- Control strategies for safe human–robot interaction;
- Control and feedback approaches for supernumerary robotic limbs;
- Biomechanics, kinematics and dynamics in human–robot interaction;
- Exoskeletons and prostheses;
- Collaborative robots;
- Bio-cooperative systems for medical applications;
- Assistive and rehabilitation robots;
- Surgical robots.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2025)



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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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