

Special Issue

Sensors and Imaging for Medical Robotics

Message from the Guest Editor

This is a Special Issue dedicated to Sensors and Imaging Systems used as sensors in Medical Robotics. In the last decade, there is a great advance in medical devices with embedded sensing. Novel surgical robots incorporate medical imaging devices (CT, fluoroscopy, MRI, ultrasound) for registration, navigation, and treatment feedback. Magnetic and image-based navigation systems are used with robots. Another aspect of sensing in medical robotics are sensors that are incorporated in robots' end effectors such as a tactile sensor. Embedded sensors provide feedback for control of the robot, feedback for the operating surgeon, and enable increased robot safety. Sensors in medical robots are the key components for future safer, more autonomous medical robots. Sensing in medical micro-robots enables targeted personal therapy.

- Image-guided surgery
- Medical sensors
- Medical robotics
- Sensing systems
- Navigation systems
- Robotic registration
- Tactile/force/pressure sensors
- Imaging sensors
- Endoscopy

Guest Editor

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Deadline for manuscript submissions

closed (20 September 2023)



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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

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