

Special Issue

Advance in Sensors Technology for Medical Robotics

Message from the Guest Editors

The rapid advancement of robotics in healthcare has provided both transformative opportunities and posed critical challenges. From surgical assistance and rehabilitation to patient monitoring and personalized care, robotics is revolutionizing medical practice, addressing workforce shortages, and expanding the availability of healthcare. However, the successful integration of these technologies requires various ethical, regulatory, and implementation-related challenges to be addressed. This Special Issue is dedicated to exploring the evolving role of robotics in healthcare, showcasing research on human–robot interaction, AI-driven diagnostics, sensor-enabled robotic systems, and the impact of robotics on the accessibility and equity of healthcare. As healthcare demands grow, it is imperative to examine how robotics can enhance efficiency, safety, and patient outcomes.

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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.

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