

Special Issue

Embodied Intelligence-Based Robotics in Medicine: Sensor-Driven Innovations for Healthcare

Message from the Guest Editors

With the rapid advancement of technology, embodied intelligence-based robots are profoundly transforming the future of the healthcare industry. Sensor technology, as the core driving force, endows medical robots with more sensitive perception capabilities, enabling them to demonstrate great potential in diagnosis, treatment, and rehabilitation. Sensor-driven medical robots, equipped with precise perception and efficient data processing capabilities, can achieve more accurate surgical operations, more efficient disease monitoring, and more personalized rehabilitation plans, thereby providing strong support for the intelligent development of healthcare. This Special Issue focuses on innovative technologies of sensor-driven medical robots and their applications in medical practice, aiming to explore how these technologies reshape healthcare service models and address emerging challenges. We hope to accelerate the translation of intelligent robot technology from the laboratory to clinical applications through interdisciplinary communication and cooperation.

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