Special Issue

Intelligent Service Robot Based on Sensors Technology

Message from the Guest Editors

Service robots are increasingly being used to replace human workers in dangerous and difficult tasks. To fully automate these tasks, robots must be able to sense their external conditions, ensuring the safe and more precise operation of these technologies. Many kinds of sensors have been developed to measure the physical parameters of robots, such as position and force, using vision or laser sensors. In this Special Issue, we would like to introduce the latest progress in sensor technology, aiming to make service robots more intelligent than ever before. In order to realize sensor technology applications in robotic systems, robot–sensor integration, sensing principles, soft smart materials, and so on need to be considered. We look forward to the participation of researchers who are conducting research in this field that "Intelligent service robot based on sensors technology", will highlight state-of-the-art sensors technology through original contributions and reviews. Topics of interest include but are not limited to service robots, human–robot interaction, smart sensing, sensor integration, intelligent control and soft material sensor.

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Deadline for manuscript submissions

closed (30 April 2025)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed

mdpi.com/si/158710

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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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