Special Issue

Sensing and Control Technology of Intelligent Robots

Message from the Guest Editors

Robots have traditionally been operated in fixed, structured workspaces to carry out predetermined, repetitive tasks. Sensors integrated with machine learning (ML) and artificial intelligence (AI) technologies empower industrial robots with human-like reasoning capabilities that enable them to adapt to changes more autonomously, learn from real-time data and determine the best course of action. AI and ML-enabled industrial and collaborative robots are excellent at analyzing data, identifying patterns, and making well-informed decisions. They have enhanced task efficiency, can learn from experience, and adapt to changing work scenarios through data-driven learning. This Special Issue aims to gather original research and review articles on recent advances, technologies, solutions, applications, and new challenges in the sensors and control technology of intelligent robots.

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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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