Special Issue

Intelligent Sensing for Robotic Control and Visual Perception

Message from the Guest Editor

Vision is one of the most powerful awareness extensions that can be integrated into a system. When coupled with modern intelligent techniques, artificial vision systems achieve far greater robustness and adaptability. This Special Issue, 'Intelligent Sensing for Robotic Control and Visual Perception', will highlight recent advances in sensor technologies and perception algorithms that enable robots to understand and interact with complex, dynamic environments. We seek contributions on novel sensors, multimodal fusion, event-based and vision-based perception, learning-based control, and system-level integration for real-time navigation, manipulation, human–robot interaction, and mixed reality applications. Submissions may include theoretical developments, experimental systems, and application-driven demonstrations that advance robust, adaptive robotic sensing and control.

Guest Editor

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Deadline for manuscript submissions

15 April 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/257301

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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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