

Special Issue

Perception Sensors and Sensor Fusion for Intelligent and Autonomous Agents

Message from the Guest Editors

The rapid advancement of intelligent and autonomous agents, ranging from autonomous vehicles and driver assistance systems to intelligent robotics and new energy systems, has placed unprecedented demands on real-time, accurate and robust environmental perception. Single-sensor solutions often suffer from inherent limitations and environmental disturbances, making them insufficient for reliable operation in complex, dynamic scenarios. Multi-source information fusion and enhancement management have emerged as key enablers to overcome these challenges. This Special Issue aims to collect original research and review articles that focus on perception sensors and sensor fusion technologies for intelligent and autonomous agents. We particularly welcome contributions on novel perception sensor designs and calibration; neural-enhanced and learning-based sensor fusion frameworks; autonomous driving and driver assistance systems; perception solutions for intelligent new energy systems and autonomous robotics; information enhancement and multi-agent cooperative control as well as multi-source information fusion management theories and practical implementations.

Guest Editors

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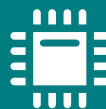
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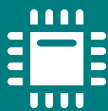


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Message from the Editor-in-Chief

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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