Special Issue

Advanced Sensor Technologies for Multimodal Decision-Making

Message from the Guest Editor

The evolution of sensor technologies has created unprecedented opportunities for intelligent systems that can process and integrate information from multiple sensing modalities to enable sophisticated decision-making processes. Modern applications across healthcare, manufacturing, autonomous systems, smart cities, and industrial automation increasingly rely on the fusion of diverse sensor data streams to achieve robust, accurate, and context-aware decisions that surpass the capabilities of single-modal approaches. This Special Issue explores cutting-edge developments in advanced sensor technologies specifically designed for multimodal decision-making systems. We seek contributions that address the integration of heterogeneous sensor data, real-time processing architectures, and intelligent fusion algorithms that enable autonomous and semi-autonomous systems to make informed decisions in complex environments. We invite researchers and practitioners to contribute innovative solutions that advance the field of sensor-based intelligent systems and their practical deployment in real-world applications.

Guest Editor

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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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