

Special Issue

Event-Based Vision and Multimodal Sensor Fusion

Message from the Guest Editors

Event-based vision has recently emerged as a disruptive sensing paradigm, inspired by the neuromorphic principles of the human retina. Unlike conventional frame-based cameras, event-based sensors asynchronously capture intensity changes with microsecond precision and a wide dynamic range, making them well-suited for fast motion, low-light, and high dynamic range environments. In parallel, multimodal sensor fusion has become an essential strategy to overcome the limitations of single modalities, enabling robust and comprehensive perception by integrating complementary information from diverse sensors, such as RGB cameras, LiDAR, radar, infrared, and inertial units.

This Special Issue aims to provide a platform for the latest developments in event-based vision and multimodal sensor fusion, covering both theoretical foundations and practical applications.

We welcome contributions that span a broad range of topics, including, but not limited to, event-based imaging and reconstruction, fusion frameworks, learning paradigms for cross-modal perception, and real-world applications in autonomous driving, robotics, augmented reality, biomedical imaging, and remote sensing.

Guest Editors

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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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