Special Issue

Multisensor Data Fusion and Its Applications in Object Detection and Tracking

Message from the Guest Editors

Multisensor data fusion integrates information from multiple sensors to improve object detection and tracking performance. By combining data from various sources, it mitigates limitations such as noise, blind spots, and environmental interference, making the system more reliable and accurate. Multisensor data fusion is widely applied in autonomous vehicles, robotics, surveillance, and aerospace, where precise and real-time object detection and tracking are critical. This technique leverages data obtained from different types of sensors, such as radar, LiDAR, cameras, and thermal sensors, to create a comprehensive understanding of the environment. Recent advancements in data fusion algorithms, machine learning, and signal processing have expanded the potential of multisensor data fusion, enabling the more efficient processing of sensor data and improving the robustness of object tracking systems. This Special Issue delves into innovative methodologies, frameworks, and real-world applications of multisensor data fusion, highlighting its significance in enhancing the detection and tracking capabilities of modern systems.

Guest Editors

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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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