Special Issue

Sensor Information Fusion Technology and Its Applications Using Machine Learning

Message from the Guest Editor

Sensor information fusion technology, also known as sensor fusion or data fusion, is the act of merging data from several sensors or sources in order to acquire a more accurate, comprehensive, and reliable picture of the environment or object under observation. It entails combining data from numerous sensors, including cameras, radar, lidar, GPS, and others, to provide a cohesive and coherent depiction of the situation. The sensor information fusion technique has numerous applications in a variety of industries, including: Sensor fusion in autonomous vehicles; Sensor fusion in surveillance and security; Sensor fusion in robotics; Sensor fusion in environmental monitoring; Sensor fusion in healthcare; Sensor fusion in smart homes and the Internet of Things (IoT); Sensor fusion in augmented reality (AR) and virtual reality (VR); Sensor fusion in object recognition and tracking; Sensor fusion in anomaly detection; Sensor fusion in human–computer interaction and gesture detection; Sensor fusion in predictive maintenance; Sensor fusion in energy management

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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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