Special Issue

Vision Sensors for Object Detection and Tracking

Message from the Guest Editor

Object detection and tracking are fundamental tasks in computer vision and have witnessed remarkable progress in recent years, driven by the surge in deep learning techniques. With the proliferation of cameras and sensors, vision-based systems are increasingly being deployed in a wide range of applications, including surveillance, autonomous driving, robotics, and augmented reality. This Special Issue invites researchers to present their latest research findings, address existing challenges, and explore future directions in vision-sensor-based object detection and tracking, to pave the way for advancements in surveillance, autonomous driving, and other critical application areas.

- Deep-learning-based object detection and tracking in videos;
- Object tracking in low-resolution and low-light conditions;
- Long-tailed object detection and tracking;
- Real-time object detection and tracking;
- Object detection and tracking in 3D videos;
- Multi-object tracking in complex scenes;
- Video object segmentation in complex environments;
- Applications in surveillance, autonomous driving, and robotics;

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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