Special Issue

Object Detection and IOU Based on Sensors: Methods and Applications

Message from the Guest Editor

With the development of sensors, Intersection over Union (IoU) for object detection based on sensors has been widely used in various fields. Intersection over union is an evaluation metric used to measure the accuracy of an object detector on a particular dataset. Intersection over union can be used to evaluate the performance of HOG + linear SVM object detectors and convolutional neural network detectors (R-CNN, Faster R-CNN, YOLO, etc.). This Special issue focuses on "Object Detection and IOU Based on Sensors: Methods and Applications". The Special Issue aims to provide a state-of-the-art overview of object detection, object tracking, and object recognition. Potential topics include, but are not limited to, the following:

- Intersection over union (IoU) for object detection and recognition;
- Convolutional neural networks (CNN) for object detection and recognition;
- YOLO (real-time object detection);
- Sensor and sensing technologies for object detection and recognition;
- Image classification;
- Image segmentation;
- Three-dimensional computer vision;
- Three-dimensional object detection and recognition;
- Visual surveillance and monitoring.

Guest Editor

Prof. Dr. Bin Cao

School of Artificial Intelligence, Hebei University of Technology, Tianjin 300130, China

Deadline for manuscript submissions

closed (15 March 2024)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/150181

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/journal/sensors

MDPI

About the Journal

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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)