

## Special Issue

# Advances and Perspectives of Object Detection Using Sensing (and Processing) Method

### Message from the Guest Editors

Object detection has been widely used in various applications, such as auto-driving, video surveillance, remote sensing, defect detecting, and so on. Most of the existing detection methods are designed for ideal circumstances, which would suffer a significant decrease in performance when used with degraded images. As for the outdoor environment, the imaging procedure is possibly contaminated by the sensor noise, rain/haze in adverse weather conditions, atmosphere turbulence, low light and so on. Therefore, it is highly desirable to explore the ways in which object detection can function under complex adverse conditions. This Special Issue aims to investigate the use of novel sensors and delicate algorithms to advance object detection under challenging adverse conditions. We would like to invite researchers to submit papers on the topic from all viewpoints, including theoretical issues, algorithms, systems, and industrial applications.

Keywords:

- image enhancement
- computer vision
- object detection
- deep learning
- multispectral imaging processing

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### Guest Editors

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Prof. Dr. Luxin Yan

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### Deadline for manuscript submissions

closed (30 April 2023)



## Sensors

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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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### Editor-in-Chief

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