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

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Deadline for manuscript submissions:
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Message from the Guest Editors

Dear Colleagues,

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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Message from the Editor-in-Chief

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