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Novel Methods for Object Detection and Segmentation

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Message from the Guest Editors

Object detection and segmentation are critical tasks in computer vision with a wide range of applications, including autonomous driving, robotics, and medical imaging. In recent years, deep learning-based methods have achieved remarkable success in these areas. However, challenges remain, such as handling occlusions, low-resolution images, and diverse object shapes and sizes.

This Special Issue presents novel methods for object detection and segmentation that address these challenges. The articles cover a variety of topics, including the use of attention mechanisms, multi-scale feature fusion, and generative adversarial networks (GANs) for object detection and segmentation. Other articles explore the integration of 3D information, such as point clouds and depth maps, into object detection and segmentation frameworks.

Overall, the articles in this Special Issue offer new insights and approaches for object detection and segmentation, with potential implications for a wide range of industries and fields.

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Message from the Editor-in-Chief

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