Special Issue

New Insights in 2D and 3D Object Detection and Semantic Segmentation

Message from the Guest Editors

This Special Issue focuses on advancing techniques and methodologies (such as AI) in the fields of image processing, 3D object detection and semantic segmentation. The collection underscores the interdisciplinary nature of research in several disciplines, highlighting how these innovations contribute to transformative applications across diverse fields. Each contribution represents a significant step forward in advancing technology, paving the way for new capabilities and applications in both academic research and industrial applications. Potential topics include, but are not limited to, the following:

- AI and image segmentation;
- AI and 3D segmentation;
- Object detection;
- Semantic segmentation and scene understanding;
- Remote sensing, virtual reality, robotics, medical, biomedical 2D and 3D imaging;
- Lidar, depth cameras, and RGB-D sensors;
- Data processing for smart cities;
- AI methods applied in images: object detection, pose detection, object tracking, semantic segmentation;
- Deep learning approaches for 2D or 3D object detection and segmentation;
- Interactive and semi-supervised approaches;
- Domain adaptation and transfer learning.

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

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