

Special Issue

Visual Object Detection in Intelligent Transport System

Message from the Guest Editor

This Special Issue focuses on advances in visual object detection for road environments, including the detection and tracking of vehicles, pedestrians, cyclists, traffic signs, and road hazards. We welcome contributions that address core challenges in ITS such as operation under adverse weather and lighting, occlusions, long-tail and open-set classes, and cross-domain generalization across cities, cameras, and platforms. Topics include deep learning architectures (e.g., transformer-based and multi-scale detectors), 3D detection, multi-object tracking, and integration with segmentation and scene understanding. We encourage work on multi-modal sensing and fusion (camera, LiDAR, radar), data-efficient learning (self-/semi-supervised, synthetic data), model compression and quantization for real-time edge deployment, uncertainty estimation, calibration, robustness, explainability, and safety. System-oriented submissions on multi-camera networks, V2X, edge-cloud coordination, and standardized evaluation protocols, datasets, and benchmarks are also within the scope.

Guest Editor

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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