

Special Issue

Advances in Computer Vision for Autonomous Driving

Message from the Guest Editors

The ongoing evolution of autonomous driving systems is deeply intertwined with progress in the field of computer vision, a field which enables vehicles to perceive, interpret and interact with their environments in increasingly complex and dynamic scenarios. Advanced vision systems (powered by deep learning) are central to tasks such as object detection, semantic segmentation, depth estimation and scene understanding, allowing for autonomous vehicles to operate safely under diverse conditions. In parallel, the integration of vision-based sensing within the broader IoT ecosystem is opening new avenues for collaborative perception and edge intelligence. Moreover, aerial platforms such as drones are playing an increasing role in traffic monitoring, mapping and infrastructure analysis, offering valuable visual data to complement and enhance ground-based autonomy. This SI seeks to gather high-quality contributions that explore novel methods, algorithms and applications at the intersection of computer vision and autonomous transportation technologies. We encourage submissions that reflect both theoretical advances and practical implementations in intelligent mobility systems.

Guest Editors

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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 guestedited by leading experts in selected topics of interest.

Editor-in-Chief

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