Computer Vision and Scene Understanding for Autonomous Driving

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Message from the Guest Editors

Autonomous driving presents an exciting opportunity to revolutionise the transport industry, offering the potential to enhance road safety and provide efficient transport systems. Current industry focus and high levels of investment are promoting rapid advances in technology in all aspects of the autonomous driving system. However, the vehicle's ability to identify and understand the environment remains critical to the safe and effective operation of autonomous vehicles.

There remain a number of perception system-based challenges to the widespread adoption of autonomous vehicles, including (but not limited to) efficient perception system hardware and software, lightweight processing algorithms, robust object detection in a variety of weather conditions, understanding of the actions (and intent) of other road users and the prediction of future actions of other vehicles and pedestrians.

Contributions are requested from researchers working to enhance perception system capabilities, helping to accelerate the development and widespread adoption of autonomous vehicles on the world's roads.

Special Issue

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Message from the Editor-in-Chief

The imaging term, specific with journal, is to be considered in its broadest sense. Image processing, image understanding and computer vision are all terms related to imaging acquisition, its processing and the extraction of relevant information from the scene to obtain the underlying knowledge. All tasks related to the above items are oriented toward specific applications in a broad range of areas and topics. The *Journal of Imaging* is conceived as an efficient vehicle in the scientific community for the communication and transmission of the progress and research results in the topics covered.

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