Abstract

Detecting the vehicles and having a detailed behavior analysis of the vehicles and their behavior in a traffic surveillance system is an emerging area of research. Vehicle detection would be the first step to be addressed in this process. Various classes of vehicles are to be detected from the surveillance video and then they need to be classified based on various feature points. This paper brings out the different methods used for the vehicle detection from a video. An overview of the edge detection methodology is also given here, which is one of the methodologies used in vehicle detection.

References

- Kun Wu, Haiying Zhang, Tianmao Xu and Ju Song, 2011 Overview of Video-Based Vehicle Detection Technologies, 6th International Conference on Computer Science & Education (ICCSE 2011)
Application of Edge Detection for Vehicle Detection in Traffic Surveillance System

- Zhang Yuanyuan, Zhang kaiwen and Mao Yuming, 2012 Research on Vehicle detection method based on video Images, in International Conference on Industrial Control and Electronics Engineering, IEEE.
- Saket Bhardwaja and Ajay Mittal, 2012, A Survey on Various Edge Detector Techniques, in Procedia Technology 4, Published by Elsevier Ltd, pp 220 – 226,
- Wen-Kai Tsai, Shao-Lung Wu, Li-Juo Lin, Tse-Min Chen and Ming-Hua Li, 2014 Edge-based Forward Vehicle Detection Method for Complex Scene, ICCE.

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