

# **AUTOMATIC HIGHWAY TICKETING SYSTEM**

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## **ABSTRACT**

Southern Expressway is SriLankas first E class highway which reduces the time taken to travel from Colombo to Galle drastically. Even though several surveillance cameras are installed at the interchanges of the expressway, currently there is no way to automatically catalog the vehicles entering or leaving these interchanges. Thus in this work i utilized the image data acquired from these cameras to automatically log the journey information of all the vehicles travelling via the expressway, such that this information could be used for statistical analysis, fraudulent detection and managerial decision making. The project mainly consists of two components Common payment interface and intelligent highway port. I developed a scalable, distributed and real-time system which is partially invariant to illumination and rotation. I made several improvements to the existing methods as they failed due to the low resolution images, and incorporated intelligent algorithms, image processing techniques and domain knowledge to improve the accuracy.

Keywords:

Common payment interface, intelligent highway port, Machine Vision, Intelligence