

ABSTRACT

Implementation of image processing in daily use has been significantly helped problems for example in transport safety field. In this study, the use of image processing is implemented to detect, count and determine a safe distance of a car in front of the driver. In order to work effectively in implementing the system, it build on embedded computing system that can run portable on the car. In this study, a system has an ability of running on an embedded board Raspberry Pi that can analyze the image to determine a car object and sae distance with the vehicle in ront of the driver.

Keyword: *embedded system, vehicle detection, image processing, haar cascade classifier*