

ABSTRACT

Many technological developments in the automotive world are one that uses cameras to be sensors for road detection, now the camera only needs to provide the results of recording on the vehicle here, then on the object segmentation that is used to utilize objects and vehicle paths in dynamic movements. real on the highway and the estimation path to find the suggested in this paper can reach a high detection rate with a very low cost of time.

The author wants to innovate about using a camera as one of the sensors and technology that can detect unknown objects such as motorized objects in the front and rear. Then the data will be processed in training using Fast R-CNN so that objects can be recognized by the camera when shooting. Therefore foreigners are not confused by the situation they will encounter in Indonesia.

This implementation is expected to be able to help the development of technology that is growing rapidly, especially in the field of object detection for front and rear motor vehicles.

Keywords: Camera, Raspberry, Faster R-CNN, front and rear motorized vehicle objects