

## ***ABSTRACT***

*One of the technological developments in the automotive field is very much one of which is the dashboard camera that serves to record the state of the road in front of the car while driving. The process of taking pictures aims to detect objects, which in turn will be Uncommon Objects or unknown objects such as 'Gerobak' can be detected.*

*The author is innovative to take pictures of 'Gerobak' as much as possible and then the data will be processed in training using Fast R-CNN so that objects can be recognized by the camera when shooting is done.*

*Implementation of this technology aims to provide information to users so they can know the state of the road and the presence or absence of the object 'Gerobak' along the road to be passed.*

*The output of this thesis is the label of the cart object classification and the probability value of the classification results. The object detection system uses the faster r-cnn algorithm which can work well when detecting object distances and get results for a distance of 6 meters by 100%, 12 meters at 90%, 18 meters at 70.00%.*

***Keyword:*** *Object Detection, Uncommon Object, Fast R-CNN.*