

ABSTRACT

Stop Space Special to minimize conflict and anticipate traffic congestion by prioritizing motorcycle lane in front of a traffic light stops . It aims to effective state of the traffic lights at the intersection . Lack of awareness of motorists are still breaking the line that should stop space special notice or warning of traffic police officers on the street , bring influence on the traffic density is increasingly filled with motor vehicles . This situation can increase congestion at traffic light stops .

With the development of technology , image processing is one solution . From an image data captured using the camera to do the SURF Features that will detect every pixel points . Matching characteristic features are processed by summing each pixel matching points in the stop space special classification to determine whether a violation of stop space special by motorists . The implementation of this system using the software Matlab R2013a .

Violation Detection application is capable of detecting violations of particular continuous space motorbike in non – realtime. The accuracy of this system is 76,67 % with the average of computation time 34,89 second.

Keywords : Violation Detection , SURF Features , Image , Space Special Stop , Matlab .