ABSTRACT

Nowadays, road become crowded with many activity of the people, so it is come true if road became the most important part of dialy activity. like people going work, children going to school, inter city packet delivery, etc.

The road become crowded, but it is not balanced with road capacity increment make it traffic jam. Traffic jam occure in cross road, wheter it is T-intersection or four intersection. It causes trouble to many activities and wasting time on road, goods delivery became troubled to and it alse affect to economic side.

This final assigment designed a image based traffic density detector. The principal work of is to analyze the asphalt appearance by count the number of asphalt colored pixel. This detector can work on many roads and can work on many situation of sun lighting, so this detector can be used more than one situation.

The accuracy of detector is 77% for all time, morning, noon, and afternoon. The result of the detector became the input on smart traffic light system. With this system, it can make fair the green light on cross road and can reduce the queue on the intersection, from average 2 cars to 1 car.

Keywords : Traffic Light, Queue, Weight, Image