

REPORT PAPER
OF
PROJECT'S PRESENTATION

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Digital image processing

In computer science, digital image processing is the use of computer algorithms to perform image processing on digital images. As a subcategory or field of digital signal processing, digital image processing has many advantages over analog image processing.



My project topic :

**VEHICLE RECOGNITION AT NIGHT BASED ON TAIL LIGHT
DETECTION USING IMAGE PROCESSING .**

Description :

Vehicle calamity statistics are jarring at night. Despite 60 percent less traffic on the roads, more Than 40 percent of fatal car accidents occur at night.

Every year, Thousands of people are injured or killed as a result of vehicle accidents at night time, and in many cases the accident was not the fault of the injured party or the deceased victim.

In developing countries like Bangladesh fatality rate rate (defined as , road accidents death per 10,000 vehicles) is quite high in comparison to developed countries.

While in Europe and North America the situation is generally improving many developing countries face a worsening situation.

Develop an image processing systems that can efficiently spot vehicles at different distances and in weather and lightning conditions.

Light Detection:

Detecting and location object in digital image has become one of the most important applications for industrial use to ease user and save time.

The goal of this project is to detect and allocate the object using shape detection.



Fig. 1.Tail Lights Cause Camera to Saturate in Places.

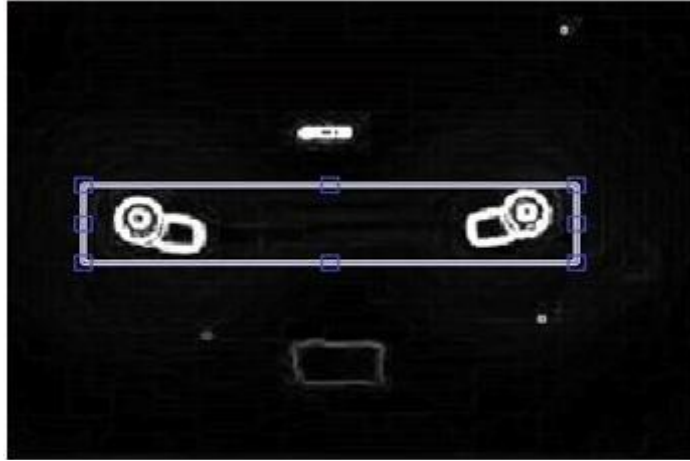


Fig. 2 : Bounding Box of Detected Image.

White regions adjacent to red regions are searched for symmetrical pairs, and aspect ratio constraints are applied to resulting bounding boxes.

So, in my Project I will show how reduce the collisions during darkness based on Tail Light Detection Using Image Processing.