Abstract

We would like to bring to your attention about the problems which we face every day. Road accident is an important problem in modern world. If we observe seriously the causes of road accidents we found that narrow roads and rapid increase of means of transport are the main reasons behind increasing number of road accidents. In general, traffic rules and signs are used to control this problem; traffic light is one of the important things. Normally traffic lights are controlled manually as well as automatically. Timers for each phase are the simplest way to control the traffic light automatically. Another way is to use electronic sensors in order to detect vehicles, and produce signal. Here we suggest a system that implement image processing
algorithm in real time traffic light control which will control the traffic light efficiently. A web camera is placed in each phases of traffic light that will capture the still images of the road where we want to control the traffic. Then those captured images are sequentially matched using image matching with a reference image which is an empty road image. The traffic is controlled according to percentage of matching. This system can be implemented as an embedded based module.

References


Index Terms

Computer Science
Emerging Trends in Technology

Keywords
Traffic Light Control  Embedded Module  Electronic Sensors  Image Processing  Image Matching