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UNIVERSITY OF WESTMINSTER (UOW)

BEng (Hons) in Software Engineering

Final Year Project 2018/2019

For

**DETECTING TRAFFIC VIOLENCE BY IMAGE PROCESSING AND VIDEO
PROCESSING**

A dissertation by

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Abstract

As a fast developing country Sri Lanka runs huge projects such as highway construction, hotel construction, road construction and etc. So as a result of that foreign investment for the stock market and lots of imports and exports businesses as well as new businesses are starting up. Since all the people are running around these points, everyone tries to make their work fast such as travelling and etc.

When everyone tries hard to make everything get done fast, they are so keen to use their own vehicle to travel here and there because the public transport is lacking some standards in this beautiful island. As everyone tries put their vehicles out to the road at the same time, then it leads everyone to face a huge problem namely traffic.

When traffic plays a huge role on the roads. All the drivers try to make their way free and go through from the traffic. So then automatically they violate the traffic and that may cause so many unwanted accidents. The target audience for this project are the drivers who drives the vehicles and as well as the traffic police in Sri Lanka.

So all the issues will be posted in to the system and the system will operate on image processing, video processing and color image processing technologies to identify traffic violated vehicles and non-violated vehicles. This system will help the government to identify the traffic violated places and the number of vehicles etc. to create well-disciplined drivers and to reduce traffic in this beautiful island.

Subject Descriptors:

Image processing

Video processing

Color Image processing

Key Words:

Traffic, vehicles, transport, identification, violation, drivers.