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DRIVER DROWSINESS DETECTION USING RASPBERRY PI

ABSTRACT

Drowsy driving is one of the major causes behind fatal road accidents. In recent years driver fatigue is one of the major causes of vehicle accidents in the world. This certainly highlights the fact that across the world the total numbers of road traffic deaths are very high due to driver's drowsiness. A direct way of measuring driver fatigue is measuring the state of the driver i.e. drowsiness. So it is very important to detect the drowsiness of the driver to save life and property. The aim of the project is to develop an alarm system for a driver while they are sleepy and not focusing on the road.

This system is a real time system which captures image continuously and measures the state of the eye according to the specified algorithm and gives warning if required. Real Time Driver Drowsiness System using Image Processing to capture drivers eye state using computer vision. In this paper, we present to detect driver drowsiness using Open CV, raspberry pi and image processing. The major aim of this project is to detect eyes and yawn of the driver. Ocular measure to detect driver eye condition and possible vision based on eye closure is well suited for real world driving conditions, since it can detect the eyes open/ closed state using a camera.

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