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Drowsiness Detection of Driver

Vaishnavi Shivdas[1], Sanjana Tate[2], Vaishnavi Shenolkar[3], Prof. Parvin Kiniker[4]
Students, Bachelor of Engineering, Department of Electronics & Telecommunication Engineering[1,2,3]
Professor, Department of Electronics & Telecommunication Engineering[4]
Dr. Daulatrao Aher College of Engineering, Karad, Maharashtra, India

Abstract: *Today Many car accidents are caused in significant part by driver weariness. According to recent figures, fatigue-related collisions result in 1,200 fatalities and 76,000 injuries per year. The evolution of the development of technologies for detecting and avoiding drowsiness at the wheel is a major challenge in the field of accident avoidance systems. Because of the risk that drowsiness presents on the road, methods need to be developed for prevent its affects. The goal of this project is to develop a prototype drowsiness detection system. The focus is on designing a system that will correctly monitor the open or closed state of the drivers eyes in real-time. By observing the eyes, it is believed that the symptoms of driver fatigue can be detected early enough to avoid a car accident. Detection of drowsy involves a pattern of images of a face, and the observation of eye movements and blink rate. The analysis of face images is a popular research area with applications such as face recognition, virtual tools, and human identification security systems. This project is used the localization of the eyes, which involves looking at the image of the face, and deciding the position of the eyes by developing matlab program. Once the position of the eyes is located, the system is designed to decide whether the eyes are opened or closed, and detect drowsiness. The purpose of this study is to detect drowsiness in drivers to prevent accidents and to improve safety on the highways.*

Keywords Drowsiness detection

REFERENCES

[1]. Facial landmarks with dlib, OpenCV and Python: https://www.pyimagesearch.com/2017/04/03/facial-landmarks-dlib-opencvpython/
[2]. Eye blink detection with OpenCV, Python, and dlib : https://www.pyimagesearch.com/2017/04/24/eye-blink-detection-opencvpython-dlib/
[3]. Drowsiness Detection with OpenCV : https://www.pyimagesearch.com/2017/05/08/drowsiness-detection-opencv/