

Driver Drowsiness Detection System

Abstract

- Drowsiness and Fatigue of drivers are amongst the significant causes of road accidents. Every year, they increase the amounts of deaths and fatalities injuries globally.
- We propose an algorithm to locate, track, and analyze both the drivers face and eyes to measure PERCLOS, a scientifically supported measure of drowsiness associated with slow eye closure.

Objectives

- The main aim of this is to develop a drowsiness detection system by monitoring the eyes; it is believed that the symptoms of driver fatigue can be detected early enough to avoid a car accident.
- Detection of fatigue involves the observation of eye movements and blink patterns.

Benefits for society and environment

- Currently, transport systems are an essential part of human activities. We all can be victim of drowsiness while driving, simply after too short night sleep, altered physical condition or during long Every year, they increase the number of deaths and fatalities injuries globally.
- In this context, it is important to use new technologies to design and build systems that are able to monitor drivers and to measure their level of attention during the entire process of driving.
- We propose an algorithm to locate, track, and analyze both the drivers face and eyes to measure PERCLOS, a scientifically supported measure of drowsiness associated with slow eye closure.