Abstract

Among the many problems faced by the country, deaths and injuries due to road traffic accidents are extremely common. Driver’s drowsiness is one of the major reasons which lead to these mishaps. In this paper, we are discussing a Real Time Drowsiness Detection System which could determine the level of drowsiness of the driver. This system considers both the closing of eyes and yawning as the constraints for determining the degree of drowsiness. Viola Jones Algorithm is used for facial features detection. Primary attention is given to faster detection and processing of data. Driver’s drowsiness will be detected by checking whether the eyes are closed over some particular consecutive frames and similarly it can be checked if the driver is yawning by monitoring the mouth region. If the closing of eyes and yawning indicates that the driver is drowsy then an alarm will be triggered.
- OpenCV Documentation.

**Index Terms**

Computer Science  
Algorithms

**Keywords**

OpenCV  Viola-Jones Algorithm  Haar Classifier