Intelligent Driver Safety System Using Fatigue Detection

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Abstract— Driver safety systems protect driver from accidents by sensing signs of drowsiness. The main aim of this paper is to propose such technique that can detect the signs of drowsiness and make corresponding decisions to make him alert. This paper presents a technique in which the driver will be continuously monitored by a camera and his eyes, head and mouth movements will be observed. If the drowsiness signs are detected on the basis of these three movements under the predefined criteria, driver will be declared as sleepy and he will get alert with the help of alarms. Three robust techniques of drowsiness detection are combined together to make a robust system that can prevent form accident.

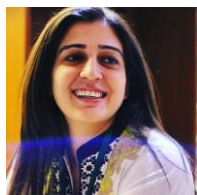*Keyword*— drowsiness, eye closure, fatigue detection, yawn detection.

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