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(57) Abstract :

The present invention provides a drowsiness detection system (1) for real time determining the drowsiness condition of a user of the vehicle to minimize the chances of road accident, comprising of: an image capturing unit (2) configured to capture the real time images of the user while driving the vehicle, a processor (3) connected to the images capturing unit (2) for processing the real time images captured by the image capturing unit, a drowsiness detection unit (4) connected to the processor which obtain an eye portion from the captured facial images and calculate vertical histogram of the eye portion and find out eye portion from the eye region according to the vertical histogram, and alerting module (5) connected to the drowsiness detection circuit which raise an alarm when the result of the drowsiness detection circuit indicated that the user is drowsy.

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