Abstract

This report presents an automatic drowsy driver recognition and accident prevention system that is based on facial expressions changes. The key reason of traffic incidents could be because of drowsiness due to the number of years driving. Examining the facial expression can provide offer the prediction of driver’s drowsiness to create the caution for the driver. Therefore, this report presents the drowsiness recognition approach for applying in vehicles. Our approach is accomplished by having a driver’s facial image, searching the facial characteristics by image handling and analyzing the driver’s drowsiness stage by utilizing hybrid technique.

References

Analysis of Driver Drowsiness Detection System by using Soft Computing


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Index Terms

Computer Science
Image Processing
Keywords

Driver Fatigue Recognition, Smart Vehicles, Facial appearance recognition, face detection, Neuro-Fuzzy, genetic.