

Survey Paper on the Driver Drowsiness Detection using IoT

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Abstract: *Traffic accidents caused by drowsy drivers represent a crucial threat to public safety. Recent statistics show that drowsy drivers cause an estimated 15.5% of fatal accidents. With the widespread use of mobile devices and roadside units, these accidents can be significantly prevented using a drowsiness detection solution. This device would be a valuable tool for helping to keep drivers safe on the road. It would be especially beneficial for drivers who are prone to drowsiness, such as long-haul truck drivers or shift workers. The system works by collecting data from the various sensors and using a machine learning algorithm. While several solutions were proposed in the literature, they all fall short of presenting a distributed architecture that can answer the needs of these applications without breaching the driver's privacy.*

Keywords: IOT, Drowsiness detection, Convolutional neural network (CNN), Sensors, Motors, Components

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