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Detection of Abnormal Driving Behavior Detection Using ADBDConvolutional Neural Networks

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Abstract:

Monitoring anomalous driving behaviours in real time is a critical component of increasing vehicle safety. To improve driver behaviour and driving practisesin order to avoid car accidents. The use of vision-based anomalous driving behaviour detection is growing in popularity because it is fundamental to the safety of drivers and passengers in cars and is a crucial step toward attaining automated driving at this level at this time. This difficult detection task can be greatly aided by recent advancements in deep learning approaches, such as advanced deep learning models' remarkable generalisation power and the large volumes of video clips required for completely training these data-driven deep learning models. To wrap off the research work, novel deep learning-based

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models, inspired by the newly developed and widely used fully connected convolutional network named the Abnormal Driving Behavior Detection (ADBD Net), are presented.

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I. Introduction

In accordance with World Health Organization (WHO) statistics, traffic accidents have risen to become one of the world's top ten leading causes of death[1]. In particular, traffic accidents claimed the lives of nearly 3500 people per day in 2014. According to studies, human factors such as Continue Reading al driving behaviours, are to blame for the majority of traffic accidents [2]. As a result, it is necessary to detect drivers' abnormal driving behaviours in order to alert them or report them to the Transportation Bureau so that they can be recorded.

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