Gerard Kiely Environmental Engineering Pdf UPD Free

1. Field of the Invention The present invention is directed to the field of providing assistance to the driver of a vehicle, such as a car. More particularly, the invention is directed to the field of providing voice-activated or voice-directed assistance to the driver of a vehicle. The invention is directed to the field of monitoring the driver of a vehicle, and providing the driver with voice-directed, vehicle-based assistance in response to detecting the driver is falling asleep while driving. 2. Description of the Related Art The problem of falling asleep while driving has existed for thousands of years and continues to pose a significant problem in the driving community. As one example of the problem, driving while tired can be viewed in various ways. For example, driving while tired can result in a tired driver exhibiting lack of attentiveness, driving with eyes closed, mouth open, snoring, facial features that are twisted and distorted, and jerky movements and hand/foot movements. These physical manifestations may cause other drivers on the road and pedestrians nearby to become concerned about the ability of the driver to operate the vehicle safely. The problem of falling asleep while driving exists across the nation and across multiple industries and jobs. Employers and workers in many occupations have an interest in providing some means to monitor the performance of their employees and ensure that they are operating the vehicle safely at all times. Some employees report that they have fallen asleep while driving their vehicles, and a number of studies have been conducted to find ways to prevent such occurrences in the future. For example, drivers have been asked to keep track of time spent sleeping and the frequency of drowsy driving episodes, and these metrics have shown that drivers are able to fall asleep while driving at significant rates. Unfortunately, there does not exist a workable solution for monitoring drivers while driving, and even with the prior knowledge of the amount of time a driver has been sleeping during the prior day, it is still difficult