DRIVER DISTRACTION AND DROWSINESS SYSTEM

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Abstract - Automatic cars change the life of humans and fully their life style . Automation helps human to live their life accurately. automation now comes in some cars but not in all cars. It may be confused by operators among other system setting manipulators and also susceptible to inappropriate usage. The eye-tracking measures may assess driver states (i.e., distraction, drowsiness, and cognitive overload) automatically to trigger manual-to-automation and serve as a driver readiness verification during automation to-manual one.

SYSTEM DESCRIPTION

A. ***Simulation Environment*** - The driving simulation was designed and implemented within the raspberry-pi software. Which help in scanning the environmental conditions.

B. **Eye Tracker Apparatus**- For tracking we are going to used OPEN-CV and Respberry-pi or processing of image into the system. We used the captured photos and then with help of these softwares we process the iamge which includes all the images having facial landmarks of the driver.

C. **System Integration-**Current plans are to accomplish this at a later development point via a road facing camera and Open Source Computer Vision (OpenCV) image processing algorithms readily contained and seamlessly connected with system.

states: distraction, fatigue, or cognitive overload. At this point, if an elevated driver aberrant state is detected by presence of any of these sub-states, a manual-to-automation is triggered.

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REFERENCES

[1] research Paper presented at the IEEE is downloaded and given to me by co-ordinator –Mrs. Sonia lama