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## Patent Search

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**Abstract:**

ABSTRACT A VEHICLE SYSTEM WITH HAPTIC OUTPUT FOR IMPAIRED BASED ON MACHINE LEARNING & ARTIFICIAL INTELLIGENCE INTERFACES [034] The present invention discloses a vehicle system with haptic output for impaired based on Machine Learning & Artificial Intelligence Interfaces. The method and system includes, but not limited processing unit to activate a haptic device provide inside the vehicle under the reach of an impaired driver on receiving a predefined vicinity data about the driving path of vehicle by a plurality of sensors. The processing unit is connected with a cloud network for further evaluating the action needs to be taken on having a set of input data. Fu the processing unit is having a deep learning tools and a machine learning and artificial intelligence modules to further analyse the input data in a real-time vehicle system. Accompanied Drawing [FIG. 1]

**Complete Specification****Claims:We Claim:**

1. A vehicle system with haptic output for impaired based on Machine Learning & Artificial Intelligence Interfaces, comprising: a processing unit to activate a haptic device provide inside the vehicle under the reach of an impaired driver on receiving a predefined vicinity data about the driving path the vehicle by a plurality of sensors; wherein the processing unit is connected with a cloud network for further evaluating the action needs to be taken on having a set of input data; and wherein the processing unit is having a deep learning tools and a machine learning and artificial intelligence modules to further analyse the input data in a real-time veh system.
2. The system as claimed in claim 1, wherein the haptic device is configured to have a tactile surface for detecting a contact of the impaired driver and an electrically operated vibratory actuator for vibrating the tactile surface with a passive resonator placed at a distance from an electrically operated vibratory actuator.
3. The system as claimed in claim 1, wherein the haptic device is configured to vibrate due to the vibration of the touch surface generated by the electrically operated vibratory actuator for producing a feedback.
4. The system as claimed in claim 1, wherein the real-time vehicle system is connected with a database provided on the cloud network to record and evaluate the relat road condition notification and communicate the processing unit.
5. The system as claimed in claim 1, wherein the processing unit instructs a portable computing device such as smartphone, PDA, and the like to actuate the haptic out on demand raised by a third person or a caretaker of the impaired driver

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