A Cloud-based Driver Monitoring for Inefficient Driving Behavior using OBD2 Telematics

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Abstract

This paper proposes a cloud-based vehicular data acquirement and analytics system for real-time driver conduct monitoring, trip analysis, and vehicle diagnostics. It comprises of an On-Board Diagnostics (OBD2) port to Bluetooth technology, a mobile application running on a smart phone, and a cloud based backend. The mobile app envisions both real-time data from sensors and alerts. A web based interface is rendered to gain the backend information. The cloud detects rash driving in real time based on the sensor data provided through the OBD port. Diachronic data is also used by the backend to detect driving anomalies and to foretell the hindering sensor failures.

References

ICT for Emerging Regions (ICTer)


Index Terms

Computer Science
Distributed Systems

Keywords

Driver Monitoring, Internet of Things, OBD2, Vehicle Diagnostics, Smart Phone.