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Vehicle-to-Vehicle Driver Safety-Related Data Transmission and Reception Using Li-Fi Technology

Authors | Authors and affiliations

Snehal Pacharne, Vinayak Kulkarni

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Abstract

Light Fidelity Technology is also known as Visible light communication is the form of wireless communication which uses visible light to transfer information such as digital data, Audio and video as well. Light is modulated and amplified to attain desired speed and distance. Vehicle-to-vehicle communication is the technology in which one vehicle transmits and receives data to and from other vehicle so that they share data between each other and will be able to assist each other. Proposed system uses Li-Fi for vehicle-to-vehicle communication system uses Li-Fi module which can be mounted in the Headlamp as well as tale-lamps of the Four-wheeler which will help to transmit real-time information such as speed data, anti-lock braking data, Turn indication, certain emergencies in car, tire related data. System is made for such small applications which can be directly implemented in car with little modifications in Hardware and Software.

Keywords

Li-Fi technology | Wireless transmission | Android application | V–V communication