Abstract

Vehicular ad hoc networks (VANET) are a Class of MANETs used for communication among vehicles and between vehicles and roadside equipment. VANET provide the communication framework for dissemination of safety critical message such as beacons and emergency messages. Due to the technological involvement there are more number of wireless devices, which also creates more congestion in the wireless environment and greatly effect on the throughput, increases high-error rate, long-latency and data loss in congested environment which may leads to major vehicle accidents. So, the scheme which controls congestion is necessary to regulate the traffic level at an acceptable level. The proposed scheme includes study existing 802.11p standard and develop an algorithm on MAC to modify parameters like transmission power, Slot time and packet interval to reduce the congestion due to heavy broadcast traffic in the network for VANET.

References
Enhancing Vehicular Ad-hoc Network (VANET) Performance by Congestion Control Algorithm

1. Sherali Zeadally, Ray Hunt, Yuh-Shyan Chen, Angela Irwin, Aamir Hassan; Vehicular ad hoc networks (VANETS): status, results, and challenges; Springer Science Business Media, LLC, 2010

Index Terms

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Keywords

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