Abstract

Vehicular ad hoc networks (VANET) are a class of MANETs used for communication among vehicles and between vehicles and roadside equipment. VANET provides the communication framework for dissemination of safety-critical messages 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 affects the throughput, increases high-error rate, long-latency and data loss in congested environments which may lead 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.
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Index Terms

Computer Science

Algorithms

Keywords

VANET, Congestion, MAC.