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Abstract Details

Title: A Survey on Broadcast Routing Protocols in VANET

Author: Jyoti and Kamal Rohilla

Abstract: The next generation VANET systems are more dense and it supposed to handle high traffic rate as well as frequent interrupt in connection. It should consume less power and utilize bandwidth efficiently. At the same time, the VANET nodes must be simple, cheap, smaller in size and efficient enough to handle traffic. In wireless environment, the quality of received signal level degraded due to path-loss and shadowing from various obstacles in propagation path. In addition to this, nodes use flooding mechanism in which it unconditionally floods data packets in all the directions. Which is going to harm network in terms of bandwidth wastage, collision, energy consumption. Broadcasting is the process of sending a message from one node to all other nodes in an ad hoc network. It is a fundamental operation for communication in ad hoc networks as it allows for the update of network information, route discovery and other operations as well. The most important goal in transportation systems is to reduce the dramatically high number of accidents and fatal consequences. One of the most important factors that would make it possible to reach this goal is the design of effective broadcast protocols. The survey of routing protocols in VANET is important and necessary for smart ITS. This paper discusses the various broadcasting routing protocols for vehicular ad hoc networks.

Keywords: VANET, Flooding, Broadcasting, BROADCOMM, UMB.