Abstract

Wireless ad hoc network is a distributed type of network where it forms and deforms the network spontaneously and automatically. One of the types of ad hoc network is a Vehicular ad-hoc networks (VANETs), a promising technology enable communication among the vehicles and between vehicle and road side units. Vehicles are travelling with a high speed so, the communication links are highly vulnerable to disconnection. This paper has focused the reliable routing on highways scenario. Link reliability model is developed to calculate the reliability between the vehicles and estimate the most reliable path from source to destination. VANET have the problem of frequent disconnection of communication links and recurrent changes in topology. For an efficient routing assumed that vehicles are moving in same directional. This
paper proposes a red rover algorithm for vehicles are moving in bi-directional. Simulation results shows that proposed protocol outperforms the existing protocols.

References


Index Terms

Computer Science

Networks
Keywords

Vanet  Reliable Routing  Topology  Red Rover Algorithm