Abstract

In the recent years, vehicular Ad Hoc Networks have gained tremendous attention of researchers due to various services they provide and likely to be deployed commercially in coming years. VANET enables vehicles to communicate with each other to avoid any critical situation such as vehicle collision, unseen obstacles etc. Safety applications such as collision warning, highway/rail collision avoidance, obstacle detection and avoidance are one of the driving forces behind the deployment of VANETs. Collision detection and prevention is a critical issue to work at as there is an increased rate of collisions between vehicles in fog during night time or zero visibility situations and rescue operations in inconvenient places such as military battlefield, highways. So any strategy that can detect and prevent such collisions to some extend will be beneficial. In this paper, a simple and cooperative strategy for collision detection and prevention for Unmanned Ground Vehicle (UGV) in military battlefield using WSN based VANET is proposed.

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Keywords
WSN  VANET  Inter-vehicle communication  Neighbor updates  collision detection  collision prevention  availability.