Abstract

Vehicular ad hoc networks (VANETs) are the important subset of mobile ad-hoc network (MANET) application which uses set of smart vehicles on road in the form of mobile nodes. The VANET provides the benefits of road safety and travellers comfort while protecting driver’s privacy from different types of attacks perpetrated by adversaries. In the forthcoming, it is usual that have vehicles which gradually increases become intelligent systems which will be equipped with radio communications interfaces. Therefore, vehicular networks be able to be formed and are usually called as VANETs (Vehicular Ad hoc NETworks). This paper presents a survey of an all aspects of modern review of VANET architecture, communication among vehicles, presenting outlet characteristics, security, challenges and addressing attackers are classified according to scope, nature, and behaviour of attacks and also discuss various categories of applications in VANETs, this paper also includes most appropriate security attacks in VANET.

Index Terms

Computer Science Networks

Keywords
Vehicular Ad hoc Network (VANET), On Road Unit (OBU), Application Unit (AU), Road Side Unit (RSU), Dedicated Short Range Communication (DSRC) and security attacks