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# A Fuzzy Logic-Based Control System for Detection and Mitigation of Blackhole Attack in Vehicular Ad Hoc Network



Ankit Kumar, Pankaj Dadheech, Mahender Kumar Beniwal,  
Basant Agarwal and Pawan Kumar Patidar

## 1 Introduction

VANET (Vehicular Ad Hoc Network), is successor of VANET (Vehicular Ad Hoc Network), and, it is developed for improving the transfer of information among different neighbor vehicles and roadside data points by using wireless communication devices incorporated within vehicles. The development of VANET has cleared path for many applications and methods for the betterment of road safety and travelling convenience. VANET has many properties that lacked in VANET, hence making it a better network than its predecessor. Some of the evolution of properties are higher node mobility and better energy-saving methods. We have investigated about some of the modified mechanisms which were developed to overcome the limitations of VANETs. In the present research of ours, we have mainly focused on its application and assessing the vast and possible VANET programs. We have performed only on simulations because it is not possible for us to check its application on actual vehicles on the streets. Now, for VANETs, we have to try new simulation strategy because the parameters used for VANET gave us non-precise values. One of the possible strategies is to create mobility traces of vehicles by the help of traffic simulation,

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