

DISSERTATION-II
REPORT
ON
PREVENTION OF BLACK HOLE ATTACK IN
AODV PROTOCOL IN MOBILE AD HOC
NETWORKS

*A dissertation-I project report submitted in partial fulfillment of the requirements
for the award of the degree of*

“Masters of Technology in Electronics and Communication”

By

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DECLARATION

I, Nakka Nandini, student of B.Tech(hons)-M.Tech Dual degree(ECE) under Department of ECE of Lovely Professional University, Punjab, hereby declare that all the information furnished in this dissertation-I report is based on my own intensive research and is genuine.

This dissertation-I report does not, to the best of my knowledge, contain part of my work which has been submitted for the award of my degree either of this university or any other university without proper citation.

Date:

Signature of Candidate

Signature Supervisor

CERTIFICATE

This is to certify that, Nakka Nandini(11008562), has completed objective formulation of dissertation-II titled, “PREVENTION OF BLACK HOLE ATTACK IN AODV PROTOCOL IN MOBILE AD HOC NETWORKS” under my guidance and supervision. To the best of my knowledge, the present work is the result of her/his original investigation and study. No part of the dissertation-I has ever been submitted for any other degree at any University.

Ms.Reena (Asst.Professor)

Supervisor

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ABSTRACT

In today's fast and rapidly growing world, the increase of popularity and lots of wireless usage of technologies has opened the doors for new and latest emerging applications in the domain of networking. One of the advanced and promising areas is the domain of Mobile Ad Hoc Networks (MANETs). A small LAN which depends on its firm's size and its specific resources along with its specifications contains only few dozens of the devices (or) computers, but they can improve in enormous and rapid mixture of computers and servers in large co operations. The world is into the easiest way of communication in which enabled Bluetooth phones like 3G are being used. The feature of MANET now provide in the business by taking the computer network advantages. A MANET is a network that communicate wirelessly and which does not have any infrastructure. The networks in the computer systems may be fixed (permanent) or temporary. However MANETs are secure and still vulnerable to many types of attacks. The main aim of any communication network is to provide flexible, secure communication along with the perfect transmission and reception. Many researchers have taken place on the security issues in the mobile networks and many routing protocols along with their security measures are proposed in the networks. The protocols by stating on how the performance is disrupted were elaborated and studied in specific regarding the different types of attacks. Such protocols like Ad-hoc On-demand Distance Vector(AODV) and Dynamic Source Routing(DSR). There are different kinds of attacks which are studied under MANETs. One of the attacks under MANET is the black hole attack in which the main aim is to identify and remove the black hole attack to have a secure and accurate type of communication in MANETs.

