Performance Analysis of AODVDSR and OLSR Routing Protocols in MANET

A project report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

Submitted by

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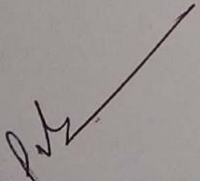
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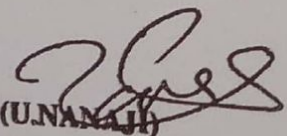MAKAVARAPALEM, NARSIPATNAM,
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CERTIFICATE

This is to certify that the project entitled "Performance analysis of AODV, DSR,and OLSR Routing Protocols in MANET" in partial fulfillment for the of degree of Bachelor of Technology in the stream Of COMPUTER SCIENCE AND ENGINEERING, at AVANTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY,MAKAVARAPALEM, VISAKHAPATNAM is an bonafied work carried out by HINDU JANAPAREDDI(17811A0524),RAMA POORNIMA JANAPAREDDI (17811A0525),MAHA LAXMI NAIDU BHEEMINI (17811A0506),VAMSI PEDDADA (17811A0538) under the guidance and supervision during 2020-2021.

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Abstract:

A mobile ad hoc network (MANET) consists of mobile wireless nodes. The communication between these mobile nodes is carried out without any centralized control. MANET is a self-organized and self-configurable network where the mobile nodes move arbitrarily. The mobile nodes can receive and forward packets as a router. Routing is a critical issue in MANET and hence the focus of this thesis along with the performance analysis of routing protocols. We compared three routing protocols i.e. AODV, DSR and OLSR. Our simulation tool will be OPNET modeler. The performance of these routing protocols is analyzed by three metrics: delay, network load and throughput. All the three routing protocols are explained in a deep way with metrics. The comparison analysis will be carrying out about these protocols and in the last the conclusion will be presented, that which routing protocol is the best one for mobile ad hoc networks.