

International Journal of Computer Science and Mobile Computing

A Monthly Journal of Computer Science and Information Technology

ISSN 2320-088X

IJCSMC, Vol. 3, Issue. 3, March 2014, pg.379 – 385



RESEARCH ARTICLE

Comparative Analysis of Routing Protocols AODV DSDV and DSR in MANET

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Abstract— Recent advances in wireless and micro electronic communications have enabled the development of a new type of wireless network called mobile ad hoc networks. MANETs are currently the greatest innovation in the field of telecommunications. A Mobile Ad hoc Wireless Network (MANET) is a collection of autonomous nodes that communicate with each other by forming a multi-hop network, maintaining connectivity in a decentralized manner. Routing protocols represent an essential aspect of the performance of mobile wireless networks. In this paper, we present the performance analysis of three prominent MANET routing protocols; DSDV, DSR, and AODV using NS2.

Index Terms—*Ad Hoc Networks Mobile, ad hoc Networks, AODV, DSDV, DSR, Performance evaluation, Routing protocols, simulation*

Full Text: <http://www.ijcsmc.com/docs/papers/March2014/V3I3201459.pdf>