

# SURVEY: COMPARISON ESTIMATION OF VARIOUS ROUTING PROTOCOLS IN MOBILE AD-HOC NETWORK

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## ABSTRACT

*MANET is an autonomous system of mobile nodes attached by wireless links. It represents a complex and dynamic distributed systems that consist of mobile wireless nodes that can freely self organize into an ad-hoc network topology. The devices in the network may have limited transmission range therefore multiple hops may be needed by one node to transfer data to another node in network. This leads to the need for an effective routing protocol. In this paper we study various classifications of routing protocols and their types for wireless mobile ad-hoc networks like DSDV, GSR, AODV, DSR, ZRP, FSR, CGSR, LAR, and Geocast Protocols. In this paper we also compare different routing protocols on based on a given set of parameters Scalability, Latency, Bandwidth, Control-overhead, Mobility impact.*

## KEYWORDS

*MANET, Routing Protocol, Reactive Proactive, Hybrid, Hierarchical, Geographic Position, Assisted Routing Protocol.*

## 1. INTRODUCTION

Mobile Ad-hoc Network (MANET) is collection of wireless nodes that do not depend on already existing infrastructure so there is no concept of base station or access point. In MANETs, due to availability of mobility in nodes and deficiency of centralized entity, the network topology changes repeatedly and erratically [1]. In MANETs each node works as router for packet forwarding whereas in wired network router performs routing table. It is multi-hop wireless network because different sets of nodes want to establish a network & it is not compulsory that each node is within the transmission range as it might be in out of range, so another set of nodes are used to connect the out of range nodes. Therefore whenever one node sends data to another node, a set of nodes may be used in between, where data is send in different hop that's why they are also called multi-hop, wireless & distributed network [2].

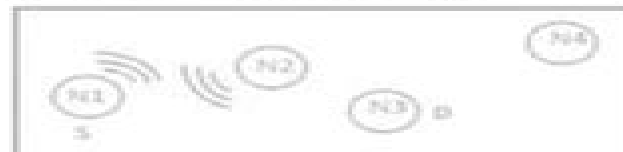


Figure 1. Hop to hop data transfer in MANET

# Survey Paper On Camparsion Demand Protocol

**He Huang**



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**Performance Comparison of Three Routing Protocols for Ad Hoc Networks** Hong Jiang, 2001 Many routing protocols for ad hoc networks have been proposed to date Among them STAR is a representative table driven protocol while AODV and DSR are two representative on demand protocols This paper analyzes these three protocols using the GloMoSim simulation environment The scenarios used in the simulation experiments take into account a variety of environmental factors that influence protocol performance The performance of the protocols is compared in terms of their control overhead amount of data delivered and average latency in packet delivery The simulation results show that STAR achieves better overall performance than AODV and DSR in sparsely connected networks For the case of densely connected networks AODV performs better in terms of data delivery while STAR performs much better in terms of control overhead The study also addresses the question of how accurate a simulator could be regarded for presenting the characteristics of the routing protocols and for comparison purposes

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