Abstract

A sensor network is a system that consists of thousands of very small stations called sensor nodes. The communication among nodes is done in a wireless fashion, and thus, the name of wireless sensor networks. Wireless sensor networks (WSN) have generated tremendous interest among researchers in recent years because of their potential usage in wide variety of applications [1]. In mobile sensor network (MSN), nodes are free to move with wireless links without any infrastructure. This paper investigates & undertakes simulation based study of Adhoc Routing Protocols in wireless sensor Network. In this paper comparison of four Routing Protocols AODV, DYMO, OLSR & IERP is done by using random waypoint mobility model and changing the nodes mobility using QualNet 5. 0. 2 Simulator. The metrics used for performance evaluation are Average Jitter, Throughput, End-to End delay, Signals received with errors, Average Queue Length, Packets to Application Layer, Total packets Received at the Receiver end.

- QualNet Simulator
- Sree Ranga Raju, Dr. Jitendranath Mungara, "ZRP versus AODV and DSR

- Parma Nand, Dr. S. C. Sharma; Routing Load Analysis of Broadcast based Reactive Routing Protocols AODV, DSR and DYMO for MANET; International journal of grid and distributed computing vol. 4, No. 1, PP 81-92, March 2011
- Shaily Mittal, Prabhjot Kaur; PERFORMANCE COMPARISON OF AODV, DSR and ZRP ROUTING PROTOCOLS IN MANET’s; International conference on Advances in Computing, Control, and Telecommunication Technologies, IEEE computer society. pp 165-168, 2009
- Alexander Klein; Performance Comparison and Evaluation of AODV, OLSR, and SBR in Mobile Ad-Hoc Networks; PP 571-575, 2008 IEEE

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Keywords

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