Abstract

Wireless Sensor network is an application based network. The design of WSN is influenced by factors like flooding, scalability, operating environment, hardware constraints, power etc. Scalability acts as a major design issue in the WSN domain. So, routing protocols should be used to continue perform well as the network grows larger or as a workload increases. This paper presents a performance analysis of three routing protocols OLSR, DSR and AODV based on various parameters like end-to-end delay, throughput and packets delivery ratio. In this Article, the limitation of OLSR routing protocol (wastage of network bandwidth) due to flooding has been overcome using Multipoint Relays and pipelining. Results show that OLSR protocol has better performance than AODV and DSR routing protocols.

References


Performance Analysis of OLSR Protocol using Pipelining and Multi-point Relay in WSN


Index Terms

Computer Science Wireless

Keywords

WSN, AODV, DSR, OLSR, BS