Abstract

Wireless Sensor Network (WSN) is an emerging technology. It is predicted that in future, WSN will change the human life totally. Energy optimization in Wireless Sensor Network (WSN) is one of the challenging issues. Wireless Sensor Network composed of a set of tiny sensor nodes. The nodes are continuously sense and transmit the data. WSN nodes operate on batteries; due to this WSN has a limited lifetime. So increasing the lifetime of Wireless Sensor Network and Minimizing energy cost in wireless sensor network are twin important problems. Proper selection of routing protocol helps achieve maximum efficiency in energy consumption which intern increases network lifetime. In this paper, three protocols namely Ad-hoc on-Demand Distance Vector (AODV), Destination Sequence Distance Vector (DSDV) and Ad-hoc on-Demand Multipath Distance vector (AOMDV) are compared and analyzed. They are compared with IEEE802. 11 and IEEE802. 15. 4 MAC protocol. MinMax, and MinTotal are used as metrics for this comparison. Matlab and NS-2 are used for simulation.
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