Abstract

Topology in a network plays an important role for effective and efficient data communication. It is the organization of network that depicts how the communication between two nodes will take place. Wireless sensor network is a collection of tiny self-organized sensor nodes. A sensor has a characteristic of sensing small data from the environment, process it and forward it
to some collecting device. Since the device is too small, it has tiny power supply mechanism to support these activities. Energy for a bit transmission is dependent on the distance between sender and receiver. Therefore it is important to have a well designed topology for sensor network formation. Several protocols and schemes have been proposed by researchers for this purpose. This paper focuses on tree based topology architecture for sensor deployment and produces a comparison between a new proposed scheme and a few existing schemes.

Reference


Index Terms

Computer Science Wireless Networks

Key words

WSN NOVSF-TM topology mobile sink