Abstract

In the last years, wireless sensor networks (WSNs) have gained increasing popularity from the research community and actual users because of their wide range of applications in fields such as medical, entertainment, tracking etc. As sensor nodes are generally battery-powered devices, the critical aspects are to face concern how to reduce the energy consumption of nodes, so that the network lifetime can be extended to reasonable times. Topology control is one of the vital points which should be kept in mind while creating wireless sensor network for the purpose of creating energy efficient network without affecting the connectivity or other properties. This paper goes through various strategies carried out to obtain a better scheme for topology control in terms of energy so that the lifetime of node as well as the network lifetime is increased. Using these strategies we have given some of the practical implementations and results which provide the efficient WSN topology.

References

Index Terms

Computer Science  Networks

Keywords

Power Control  power management  Wireless sensor network  practical
implementation.