Abstract

Wireless sensor networks have a broad variation of applications within the surveillance, military, atmosphere monitoring and medical fields. Coverage and connectivity of sensor networks demonstrates how well a region is monitored. The coverage issues have been studied extensively. Particularly the coverage with respect to connectivity and network lifetime effectiveness is emphasized. Constructing a connected, absolutely encapsulated and energy efficient sensor network is efficacious for real time applications attributable to the restricted resources of sensor nodes. This extensive study highlights the recent research analysis and their respective approaches on coverage of wireless sensor networks. A comprehensive comparison among these approaches are given from the perspective of style objectives, assumptions, algorithm attributes and connected results.

References

- M. Cardei and J. Wu. Energy-efficient coverage problems in wireless ad hoc sensor
- J. Levendovszky, A. Bojárszky, B. Karlócai, A. Oláh, Energy balancing by combinatorial optimization for wireless sensor Networks, WSEAS transactions on communications, ISSN: 1109-2742, Issue 2, Volume 7, February 2008
- Flavio Fabbri and Chiara Buratti, Throughput Analysis of Wireless Sensor Networks via Evaluation of Connectivity and MAC performance, Emerging Communications for Wireless...
Sensor Networks, 2010
- Sungsoon Cho and John P. Hayes (2005) &quot;Impact of Mobility on Connection Stability in ad hoc networks&quot; Wireless Communications and Networking Conference, 2005 IEEE.
- Damien Jourdan, "Node placement for a wireless sensor network using a multi objective genetic algorithm.
Extensive Study on Coverage and Network Lifetime Issues in Wireless Sensor Network


Index Terms

Computer Science

Wireless

Keywords

Wireless Sensor Network Coverage Connectivity Lifetime energy efficient