Abstract

To optimize the QoS in a sensor network, it is required to optimize it under various coverage problems. A network is defined under three main coverage aspects called target coverage, area coverage and barrier coverage. If the network is optimized under all these coverage's, the scalability, reliability and efficiency will be achieved. This kind of optimization can be achieved statistically during deployment or dynamically with optimization.
algorithm. In this paper, a study on the challenges associated with different kind of coverage problems is defined.

References

- Yinian Mao, "Coordinated Sensor Deployment for Improving Secure Communications and Sensing Coverage", SASN®apos;05, November 7, 2005, Alexandria, Virginia, USA. ACM 1-58113-764-8/03/0009 (pp 115-121)
- Vijay Chandrasekhar, "Localization in Underwater Sensor Networks — Survey and Challenges", WUWNet®apos;06, September 25, 2006, Los Angeles, California, USA. ACM 1-59593-484-7/06/0009 (pp 33-40)
- Melike Erol, "Localization with Dive®apos;Napos;Rise (DNR) Beacons for Underwater Acoustic Sensor Networks", WUWNet®apos;07, September 14, 2007, Montréal, Québec, Canada. ACM 978-1-59593-736-0/07/0009 (pp 97-100)
- Diba Mirza, "Real-time Collaborative Tracking for Underwater Networked Systems", WUWNet®apos;12, Nov. 5 - 6, 2012 Los Angeles, California, USA. ACM 978-1-4503-1773-3/12/11
- Liangjie He, "Implementation and Emulation of Distributed Clustering Protocols for..."
Wireless Sensor Networks; IWCMC; August 12-16, 2007, Honolulu, Hawaii, USA. ACM 978-1-59593-695-0/07/0008 (pp 266-271)

- Santosh Kumar, "Barrier Coverage With Wireless Sensors"; MobiCom; August 28–September 2, 2005, Cologne, Germany. ACM 1-59593-020-5/05/0008 (pp 284-2)

Index Terms

Computer Science Wireless

Keywords

Area Coverage Target Coverage Challenges