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Cost-Aware Secure Routing (CASER) Protocol Design for Wireless Sensor Networks

Abstract

Lifetime optimization and security are two conflicting design issues for multi-hop wireless sensor networks (WSNs) with non-replenishable energy resources. In this paper, we first propose a novel secure and efficient Cost-Aware SEcure Routing (CASER) protocol to address these two conflicting issues through two adjustable parameters: energy balance control (EBC) and probabilistic-based random walking. We then discover that the energy consumption is severely disproportional to the uniform energy deployment for the given network topology, which greatly reduces the lifetime of the sensor networks. To solve this problem, we propose an efficient non-uniform energy deployment strategy to optimize the lifetime and

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message delivery ratio under the same energy resource and security requirement. We also provide a quantitative security analysis on the proposed routing protocol.

Existing System

The existing routing schemes is that try to avoid having any sensor nodes run out of energy while the energy levels of other sensor nodes in that area are still high. We implement this by enforcing a balanced energy consumption for all sensor nodes so that all sensor nodes will run out of energy at about the same time. This design guarantees a high message delivery ratio until energy runs out from all available sensor nodes at about the same time.

Proposed System

In this paper, presented a secure and efficient Cost-Aware SEcure Routing (CASER) protocol for WSNs to bal-ance the energy consumption and increase

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network lifetime. CASER has the flexibility to support multiple routing strategies in message forwarding to extend the lifetime while increasing routing security. Both theoretical analysis and simulation results show that CASER has an excellent routing performance in terms of energy balance and routing path distribution for routing path security. We also proposed a non-uniform energy deployment scheme to maximize the sensor network lifetime.

System Requirements

HARDWARE REQUIREMENTS

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)

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- Hard Disk - 20 GB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

SOFTWARE REQUIREMENTS:-

- Operating System : LINUX
- Tool : Network Simulator-2
- Front End : OTCL (Object Oriented Tool Command Language)

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[1] Y. Li, J. Ren, and J. Wu, “Quantitative measurement and design of source-location privacy schemes for wireless sensor networks,” IEEE Trans. Parallel Distrib. Syst., vol. 23, no. 7, pp. 1302–1311, Jul. 2012.

[2] Y. Li, J. Li, J. Ren, and J. Wu, “Providing hop-by-hop authentication and source privacy in wireless sensor networks,” in Proc. IEEE Conf. Comput. Commun. Mini-Conf., Orlando, FL, USA, Mar. 2012, pp. 3071–3075.

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