Abstract

In this paper, we examine some protocols related to WSNs. To evaluate the efficiency of different routing schemes, we compare six chain based routing protocols; Power Efficient Gathering in Sensor Information Systems (PEGASIS), Power Efficient Gathering in Sensor Information System Extended (PEGASIS-E), Chain Oriented SEnsor Network (COSEN), Energy Efficient Chain Based Sensor Network (ECBSN), Improved Energy Efficient Chain Based Sensor Network (IECBSN), and Energy-Aware PEGASIS-Based Hierarchal Routing Protocol for Wireless Sensor Networks (EAPHRN). Two scenarios are discussed to compare the performances of chain based routing protocols; in the first scenario static sink is used and in the second one mobile sink is used. We perform analytical simulations in terms of network lifetime and average energy consumption.

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