

عنوان مقاله:

Enhancing the lifetime of EEHRP algorithm in wireless sensor network using a fuzzy algorithm

محل انتشار:

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خلاصه مقاله:

A wireless sensor network consists of thousands of nodes that are densely developed to collect messages and transmit data to the base station, that each of them has the ability to collect information from the environment and send the collected data to the base station. Wireless sensor networks are extremely resource-limited, resource constraints include limited energy, short-range communication, low bandwidth, memory and limited processing in each sensor. Given the importance of wireless sensor networks and the lifetime of these networks, the energy issue has been introduced as an important challenge in this type of network and has attracted the attention of researchers and subsequently led to the developing various protocols to reduce Energy consumption in order to increase the network lifetime and improve its performance. Given, we also aimed at achieving this goal by studying the LEACH, ELEACH and EEHRP algorithms, and then we presented a method that improves energy consumption, using fuzzy logic during clustering and the sensor's sleep control technique in wireless sensor networks

کلمات کلیدی:

.Wireless Sensor Networks, Lifetime, Fuzzy Algorithms, Hierarchical Routing, Cluster Topology

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