Comparative Study of Optimized Wireless Sensor Network Routing Protocols

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Abstract

Nowadays, Wireless sensor network applications are very important in most industrial fields. Most strategies are used to save energy of WSNs to prolong their life time. This problem attracted attention of many researches and many methods were proposed to optimize the energy consumption of WSNs. This paper presents a comparative study between two meta-heuristics algorithms are used to optimize this problem. One of them is the improved harmony search algorithm, and the other is the particle swarm optimization algorithm. Showing the strategies which are used to build its routing protocol and overviews on optimization algorithm which depend on build its solutions. Energy model used to calculate fitness of each solution. Improved algorithms are used in routing to solve the proposed problem. And propose termination criteria, simulation and results for each algorithm. At last this of them preferred to implement.

References


Index Terms

Computer Science Wireless

Keywords