Abstract

Applying trust in Wireless Sensor network (WSN) is an emerging area where researchers are engrossed in developing novel design archetype to address the security issues. Security plays an important role in WSN where trustworthy sensor node turns into a untrustworthy one because of hardware and software faults. Aim of the paper is to propose an optimized path coverage algorithm with the help of an emerging biologically inspired technique, i.e., intelligent water drop (IWD). The proposed work is guaranteed to have most reputable path leading to most trustworthy nodes in WSN. This approach uses dynamic parameters for finding all the optimal paths using basic properties of natural water drops. It proposes how different test cases
can be considered as an IWD moving on the edges of the network for finding the optimal paths. The algorithm guarantees complete path coverage.

References


Index Terms

Computer Science Wireless Communication

Keywords

Biologically Inspired Trust Wsn Iwd