Detection and Removal of Vampire Attack in Wireless Sensor Network

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Abstract

Wireless sensor network is communication network across low cost, low energy sensor node which sense and collects information around physical environment. Sensing and pervasive computing features of WSN opened up various applications which in turn increased research areas. WSN has been implemented with various areas such as in military, forest, health, inventory etc. Energy is an important factor for sensor node, while there is one new type of attack called vampire attack has been discovered which disables network by consuming battery life of sensor network. The proposed work introduces a new methodology based on energy threshold and packet broadcast threshold of sensor node of network. Solution in previous work was limited to packet forwarding phase only but not work with topology change. The proposed solution is simple and also works with topology change in network.

References


Index Terms

Computer Science Networks

Keywords

Vampire attack, wireless sensor network, DOS, Variance, Security