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ABSTRACT (EXTC ENGINEERING)

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ABSTRACT (MECHANICAL ENGINEERING)

IMPLOSION DETECTION BASED ON ROUND TRIP DELAY AND PATHS (ID-RTDP) FOR SENSOR NODE IN WSNS

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ABSTRACT:- Nowadays the application of wireless sensor network (WSN) has been increased. To provide Quality of Service (QoS), there is need of some development in the WSN. There are many developments made in wireless sensor network, due to escalation of usage there are considerable problems in WSN. The WSN is composed of number of wireless sensor node. The quality of service mainly depends upon wireless sensor nodes. If failure occurs in wireless sensor nodes, then whole network will collapse. Due to the collapse of whole network the quality of service decreases. The probability of failure increases with increase of number of sensor nodes.

In the proposed method, the faulty sensor nodes are detected by calculating the round trip delay (RTD) time of different round trip paths and comparing them with the threshold value. The scalability of this method is checked by simulating the WSNs with a large number of sensor nodes in Network Simulator 2 (NS2). Energy consumption is increased by redundancy and the network lifetime is reduced, cluster head fails to detect the faulty node which creates data loss problem. The necessity of the received signal strength measurement in the cluster head variation and assigning separate wavelength of each of the link in other fault detection techniques are overcome in this method.

Keywords— Wireless Sensor Network (WSN), Quality of Service (QoS), Failure node, Round Trip Delay, Round Trip Path.

DEFENSE MECHANISMS FOR DDOS ATTACKS

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ABSTRACT:- Main Security issue in today's internet is Denial of service attack, rendering computer or network incapable of providing normal services to its users. DDoS is more severe than DoS enhancing capabilities of DoS adding multiple ways at one time. It has capability to exhaust processing and communication resources of victims system without any warning. This paper presents an approach giving classification of DDoS attacks and DDoS defense mechanisms. Furthermore, important features of each attack and defense system are described and advantages and disadvantages of each proposed scheme are outlined. The goal of the paper is to place some order into the existing attack and defense mechanisms, so that a better understanding of DDoS attacks can be achieved and subsequently more efficient and effective algorithms, techniques and procedures to combat these attacks may be developed.

Keywords—Amplification, Attack,Defense mechanisms, Denial of service (DoS) attack, Packet filtering