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PONDICHERRY – VILLUPURAM – CUDDALORE - CHENNAI

ActiveTrust: Secure and Trustable Routing In wireless Sensor Networks

ABSTRACT

Wireless Sensor Networks (WSNs) are emerging as a promising technology because of their wide range of applications in industrial, environmental monitoring, etc. Because of their inherent resource-constrained characteristics, they are prone to various security attacks, and a black hole attack is a type of attack that seriously affects data collection. The current trust-based route strategies face some challenging issues: (1) the core of a trust route lies in obtaining trust. (2) Energy efficiency. Because it is difficult to locate malicious nodes, the security route is still a challenging issue. Thus, there are still issues worthy of further study. Security and trust routing through an active detection route protocol is proposed in this project. The ActiveTrust scheme fully uses residue energy to construct multiple detection routes. The theoretical analysis and experimental results have shown that our scheme improves the successful routing probability by more than 3 times, up to 10 times in some cases.

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EXISTING SYSTEM

Existing system is nothing but already have in our or doing project. In this session we discuss the construction of baseline models of existing systems. This activity relies on knowledge of the hardware, software, workload, and monitoring tools associated with the system under study.

DISADVANTAGES

- The core of a trust route lies in obtaining trust. However, obtaining the trust of a node is very difficult, and how it can be done is still unclear.
- Energy efficiency. Because energy is very limited in WSNs, in most research, the trust acquisition and diffusion have high energy consumption, which seriously affects the network lifetime.
- Security. Because it is difficult to locate malicious nodes, the security route is still a challenging issue.

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PROPOSED SYSTEM

Proposed system means you modified the particular pattern of doing project is called "proposed system". In proposed system, we overcome the drawback of existing system

- The ActiveTrust scheme is the first routing scheme that uses active detection routing to address BLA.
- The ActiveTrust route protocol has better energy efficiency.
- The ActiveTrust scheme has better security performance.
- The ActiveTrust routing scheme proposed in this project can improve the
- success routing probability by 1.5 times to 6 times and the energy efficiency by more than 2 times compared with that of previous researches

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SYSTEM REQUIREMENTS:**HARDWARE REQUIREMENTS:**

System : Pentium IV 2.4 GHz.

Hard Disk : 40 GB.

Floppy Drive : 1.44 Mb.

Monitor : 15 VGA Colour.

Mouse : Logitech.

Ram : 512 Mb.

SOFTWARE REQUIREMENTS:

Operating system : - Windows XP.

Coding Language : JAVA

Data Base : SQL Server 2005.

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