



ERT-Enrichment Routing Technology for Wireless Sensor Network Using TEAODV

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Abstract: Wireless Sensor Networks (WSN) are applied in various fields but packet transmission is a major problem. In existing protocols, packet transmission occurs, but has less efficiency and there is a need for packet transmission also results in high energy consumption. Hence Trust based Energy aware Ad hoc on demand Distance Vector (TEAODV) is designed to overcome these failures. In this method is based on trust values. The nodes and routes with high trust are selected. Here the packet is transmitted efficiently from source to destination with high delivery ratio and low energy consumption. The performance of the proposed protocol has been evaluated and analyzed in terms of delivery ratio, packet drop, average energy, throughput for different number of nodes by considering trusted path along with path having minimum energy level nodes and shortest route. The performance of the protocol is implemented in wireless sensor network is shown with the help of NS2 Simulator.

Index Terms: Trusted path, reliable and energy efficient packet delivery, minimum energy level nodes, shortest path.

