A Comparative Study of Hierarchical Clustering based Routing Protocols in WSN: A Survey

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Abstract

Development of wireless sensor network technologies have presented a availability of tiny sensor nodes along with the ability regarding sensing various physical as well as atmospheric circumstances, data handling and wireless communication. A number of detecting abilities affect the abundance application zones. On the other hand, a function associated wireless sensor networks demand additional efficient techniques for data sending as well as dispensation. In WSN, the sensor nodes include restricted transmission range; dispensation, storage abilities and energy resources also are restricted. Therefore various routing protocols are designed for the sensor network to overcome these problems. Among the routing protocols one is hierarchical routing which follows a clustering mechanism and also considered to be more resourceful in regards to energy as well as scalability. In this paper, we are surveyed energy efficient hierarchical cluster-based routing protocol that periodically selects cluster head as per the hybridization of their residual energy.

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Index Terms

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Keywords

WSN, Routing protocols, Energy efficiency, clustering