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Article

Energy and latency aware position based packet forwarding protocol for wireless sensor networks

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Abstract

In Wireless Sensor Networks (WSN), the nodes are linked wirelessly and are highly mobile. The nodes can enter or leave the network at any instant of time making the network topology to be highly dynamic. The data in WSN is transmitted through several of these intermediate nodes. Hence, during transmission of data, it is important to wisely select the nodes for data forwarding because if ineffective nodes are selected then it may either delay the data transmission process or corrupt the data packet. Also, the type of data forwarding technique used plays a significant role since the nodes in WSN have limited energy. So, in this paper we have proposed an energy and latency aware packet forwarding protocol which selects the forwarding nodes diligently to ensure reliability and uses the anycast forwarding technique to handle energy and latency in the network along with successful data delivery at the destination.

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