ADAPTIVE ENERGY EFFICIENT ROUTING PROTOCOL IN WSN

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Abstract

A wireless sensors network (WSN) is an interesting technology in various applications. The WSN has important application such as remote environment monitoring, target tracking, military, environmental, health and vehicular movement. In WSN, sensor nodes gather information, process them and communicate with other sensor and send information to the sink. But different sensors may be used in various applications, so sensors may not have the same sensing capabilities, transmission range and having limited energy resources. So their diverse transmission ranges brought about by their heterogeneity into account. In wireless heterogeneous sensor network (WHSN), designing a routing protocol with asymmetric link by consuming less energy is very challenging task. In this paper, we propose EEPRP: Energy Efficient probabilistic routing protocol for wireless heterogeneous sensor network that operate asymmetric links by finding the reverse path and consuming minimum energy to achieve assured delivery rate with better throughput result and packet delivery ratio.

Keywords: Wireless sensor network, routing, heterogeneous sensor network, EEPRP etc.

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