Efficient Priority based Multipath Routing in Wireless Sensor Network for Multimedia Streaming

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Abstract

Monitoring the target area lively by video sensor node will improve the ability of event description. Since the sensor nodes have limited capacity, single path routing does not suite to transfer video content. Accordingly there is a need for multipath routing for efficient transmission of video content. However not all the path in multipath routing is suited for video transmission because one or few path may not have sufficient energy to transfer the video stream, but it can able to transfer data stream. Based on the application, the type of data either video stream or data stream plays a different role. Significance levels are different for each of its data type. Priority for the data is to be given based on their significance level. In this paper, a novel approach called Efficient Priority Based Multipath Routing (EPBMR) is proposed which optimizes the multiple disjoint path found from Cost Based Multipath Routing (CBMR) by giving priority to the cost of each disjoint path and type of data. The results show that EPBMR can able to choose maximum number of path based on the priority.

References

Index Terms
Keywords

path cost, CBMR, End-to-End Delay