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A Survey on various Multipath Routing protocols in Wireless Sensor Networks

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Abstract

There has been a huge development in the field of Wireless Sensor Networks (WSN) in the recent years. The development is mainly due to the availability of small size sensor cameras and microphones. Such devices capture the multimedia data from the environment and effectively transmit them. Wireless Multimedia Sensor Networks (WSMN) is also the current topic of discussion due to its application in various fields. In order to improve the channel utilization rate, reduce transmission delay and balance the transmission load in WMSN multipath routing is a promising solution. Multipath routing helps to transfer data simultaneously thus by reducing delay and congestion in WMSN. In this paper, various protocols and schemes are being discussed on multipath routing strategy which will identify the areas of further development for WMSN.

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Keywords: Wireless Sensor Networks (WSN); Wireless Multimedia Sensor Networks (WMSN)

1. Introduction

Since the past years many Research Community has been working on Wireless sensor networks (WSN) because of its theoretical and practical challenges. It includes the applications for large-scale networks having small devices which are capable of extracting information from the real environment then performing simple processing

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