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RESEARCH ARTICLE

Congestion Detection & Minimization in Wireless Sensor Network By Using Multipath Rate Organization Technique

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Abstract

In wireless sensor network to achieve higher consistency and load balancing the various multipath routing protocols have been proposed. Moreover, wireless sensor network typically incorporates heterogeneous applications within the same network. A sensor node may have multiple sensors i.e. light, temperature, motion etc. with different transmission characteristics. An important function of the transport layer in WMSNs is congestion control [1]. When an event occurs the sensor node becomes active in transmitting information because of this data traffic increases and might lead to congestion that results in packet drops and decrease network performance. In this paper, we present a new technique on node based Congestion Control with Priority Support distributing the load on node as an indication of congestion degree [6]. The rate assignment to each traffic source is based on its priority index as well as its current congestion degree.

Keywords: - Congestion control, network performance, Rate organization

Full Text: <http://www.ijcsmc.com/docs/papers/March2014/V3I3201499a35.pdf>