



**RESEARCH ARTICLE**

## **DYNAMIC DATA GATHERING PROTOCOL IN WIRELESS SENSOR NETWORKS**

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***Abstract— Wireless Sensor Networks (WSNs) consist of small nodes with sensing, computation, and wireless communications capabilities. Recent advances in wireless communications technology and microelectro mechanical systems have enabled the development of low cost, low power, network-enabled, and multifunctional micro sensors. The potential applications of wireless sensor networks (WSNs) span a wide spectrum in various domains, due to their ease of deployment, re-liability, scalability, flexibility, and self-organization. Generally there are three models of WSN: time, on-demand and event driven. In this paper, we propose a hybrid data-gathering protocol which uses the advantages of both the event-driven and time-driven data-reporting schemes. The main aim of our approach is to detect an event of interest in the near future by using adaptive transmission based data-reporting process. Without requiring observer intervention the data from neighboring areas are gathered proactively. The proposed protocol analyzes the environmental changes accurately using moderate resource consumption. The proposed protocol is implemented in network simulator and analyzes its behaviors using synthetic environments that model the occurrence of a fire.***

***Key Terms: - Adaptive algorithm; embedded software; wireless application protocol; wireless sensor networks***

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