Abstract—In this paper, we propose the development of an efficient multi-sensor data transmission control algorithm for sensor data based on the multiple-sensor nodes using the USN. In this paper, the proposed transmission control algorithm uses a method that at the same time makes possible for transmission control of data by comparing the tolerance range of the sensing data on multiple sensor nodes as the data processing method for transmission control of sensor data. In this paper, the proposed efficient multi-sensor data transmission control algorithm can reduce the power consumption of terminal nodes, and resolve the bottleneck state which is concentrated on the sink node using the gateway based the WLAN. In addition, the transmission of stored data in the DB could be obtained improvements in the efficiency improvements and data collection accuracy on the wireless sensor networks.

Keyword—Sensor network, Multi-sensor, Transmit control, Power consumption reducing, Sensor node

Development of Efficient Multi-Sensor Data Transmit Control Algorithm

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