An Evaluation of Proposed Systems of Sensor Data’s Storage in Total Data Parameter

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Abstract

With the advent of low-power micro-sensors, actuators, embedded processors, and RF radios, it becomes feasible to deploy large scale networks of sensing devices. Most of sensors provide their energy using battery that has limited energy. The most energy consumer of sensors is transmission. Sensors within a sensor network generate data. These data should be stored somewhere for further information retrieval like answering user’s query. Sensors also have limited storage so we cannot store all generated data. Sensors can send their data to more powerful named sink for further information retrieval. So a good storage has effective impact on the life time of sensor networks. In this paper with the help of j-sim and protégé software’s, we have evaluated two known systems for sensor data storage in total data parameter that received by sink node, names Semantic Sensor Web (SSW) and Semantic Sensor Observation Service (SemSOS). We have presented that SSW stores less data and can response fewer queries against SemSOS.

Key words: sensor data storage, SSW,SemSOS