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I. Introduction Sensors are used for various applications. Sensors generally connected with each other through wireless medium to form wireless sensor networks. Sensor device has a low power embedded processor, memory, transceiver, sensing unit and battery. Cloud computing is an emerging technique provides shared processing resources and data to the end user. Through virtual servers, user get service in the cloud computing. There is no need for the user to worry about the location of the servers and its configurations. The sensor cloud infrastructure combines WSN and cloud for managing physical sensors on IT infrastructure. Through sensor cloud infrastructure an end user can access the sensor network through the cloud computing. If the owner of the sensors wants to rent his sensor, he has to attach his sensors to cloud computing infrastructure. He can get money according to the usage of his sensors. The owner can add and deleted his sensor in the sensor cloud sensor sensor device the battery of the sensor after deployment in most of the scenarios. Due to design constraint battery size can't be more to provide more lifetime. To run the sensor is finite. It is difficult to replace the battery of the sensor has to respond the every request. If user requests are very frequent then the sensor has to respond frequently, which result less network life time for the sensor network. Data compression and aggregation schemes can reduce the size of transmitting data, but the number of transmissions can't be reduced and every user request must be responded by the sensor. There is a need to reduce the number of transmissions from the sensor to the cloud systems.
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