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Abstract
Recent years, many researchers proposed different kinds of cluster-based MAC protocols for wireless sensors. There are several factors, e.g., energy saving, bandwidth usage, and transmission delay, affect the design of MAC protocols in wireless sensor networks. In this paper, we proposed a cluster-based energy-efficient MAC protocol named BMA-RR. The proposed MAC protocol uses Round-Robin algorithm to schedule the packets transmissions in time-slots. BMA-RR is based on event-driven data collecting scheme which gathers data when a data event is happen. After the data is collected, the sensor transmits data to its cluster head. By using Round-Robin algorithm to schedule the data transmission, the proposed BMA-RR can allocate more data slot in sending and receiving data.
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