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A Proactive Data Reporting Protocol for Wireless Sensor Networks

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Abstract

In large-scale Wireless Sensor Networks (WSNs), leveraging data sinks' mobility for data gathering has drawn substantial interests in recent years. Current researches either focus on planning a mobile sink's moving trajectory in advance to achieve optimized network performance, or target at collecting a small portion of sensed data in the network. In many application scenarios, however, a mobile sink cannot move freely in the deployed area.

In Proposed System, we propose SinkTrail, a proactive data reporting protocol that is self-adaptive to various application scenarios, and its improved version, SinkTrail-S, with further control message suppression. In SinkTrail, mobile sinks move continuously in the field in relatively low speed, and gather data on the fly.

Full Text: www.ijcsma.com/publications/march2014/V2I303.pdf