Abstract

In Wireless Sensor Networks, data dissemination to multiple sinks consumes a lot of energy. Various data dissemination schemes have been proposed over the years to reduce the energy consumption in Wireless Sensor Networks. In this paper, we have proposed a virtual infrastructure based data dissemination scheme which reduces the energy consumption in grid construction process. Grid construction process is initiated by the source appearing in the sensor field when no valid grid is present. All other sources appearing during the valid grid period share existing grid. This scheme provides a solution for calculating cell size of the grid and handling multiple sinks in WSN. We have also proposed an energy efficient scheme for
Energy-Efficient Grid-based Data Dissemination in Wireless Sensor Networks

handling dissemination node failure.

References


Index Terms

Computer Science
Emerging Trends in Technology

Keywords
Dissemination Node  Mobile Sink  Expected Zone  Source Id