Abstract

Recently Wireless Sensor Networks (WSNs) are a very promising research field since they find application in many different areas. In applications involving networks of sensor-equipped autonomous vehicles, it is crucial to have an energy-efficient communication protocol due to the limited on-board batteries. Unlike traditional sensor networks, vehicle sensor networks typically consist of only a small number of nodes. We exploit this fact in our protocol design by optimizing specifically for these mobile small scale networks. Our proposed solution, ConverSS, is a hybrid MAC/routing protocol that is energy-efficient for vehicle sensor networks. The results show that our schemes effectively support increased sleeping interval with low energy consumption.

References

9, Sept. 2011.


Index Terms

Computer Science Wireless

Keywords

Wireless Sensor Network Protocol Design And Analysis Mobile Communication
System