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

Energy Efficient Approach for ConverSS: Routing Protocol for Wireless Networks

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Index Terms

Computer Science Wireless

Keywords

Wireless Sensor Network Protocol Design And Analysis Mobile Communication
System