Abstract

Dependability of the nodes in a group network is very important for its successful applications in the engineering area. Conventionally, when a node has a failure, it (i.e. data from that node) is usually discarded and the network is reorganized with faultless nodes to continue with the normal operation without a tradeoff with the functional coverage of the networks. In this paper, it is planned that the sensor nodes designed with self-healing ability can dynamically change their node configurations to repair during hardware failures. The work once integrated with an existing standalone target group nodes or Host/Target group communicating nodes can improve the robustness of the group network and reduce the maintenance cost when deployed in real time applications.

References

- N. Matloff, "Cyclic Redundancy Checking", in the 10th symposium of Department of Computer Science, University of California, 2001.
- E. Beigne, et al. , presented the processors hardware to support dynamic voltage and frequency scaling (DVFS) through software or a local DVFS controller.

Index Terms

Computer Science

Security
Keywords

Intrusion Detection  E-Mote System  Data Encryption Standard (DES)