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

Intrusion Detection and Secured Data Transmission using Software Hardware Codesign


- 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)