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Markov models for wireless sensor network reliability

[C. Vasar](#), [O. Prostean](#), [I. Filip](#), [R. Robu](#)... - ... and Processing, 2009. 2009 - [ieeexplore.ieee.org](#)

Abstract: The paper proposes Markov models for the reliability analysis of the wireless sensor networks. There are presented the theoretical aspects and some of the variables that are used in the domain of fault tolerant systems. There is also presented a comparison between systems using dedicated replacements and universal replacements for defective nodes. There has been conducted a study regarding the reliability of system versus cost ...

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Evaluating wireless sensor node longevity through markovian techniques

D Bruneo, S Distefano, F Longo, A Puliafito... - *Computer Networks*, 2012 - Elsevier

Wireless sensor networks are constituted of a large number of tiny sensor nodes randomly distributed over a geographical region. In order to reduce power consumption, nodes undergo active-sleep periods that, on the other hand, limit their ability to send/receive data.

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Reliability model for extending cluster lifetime using backup cluster heads in cluster-based wireless sensor networks

SU Hashmi, SMM Rahman, HT Mouftah... - *Wireless and Mobile ...*, 2010 - ieeexplore.ieee.org

Abstract: In cluster-based two-tier Wireless Sensor Networks (WSNs), the cluster-head nodes (CHs) gather data from sensors and then transmit to the base station. When these cluster head nodes start to die, the coverage of the respective clusters is lost and it leaves

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Evaluating reliability of WSN with sleep/wake-up interfering nodes

S Distefano - *International Journal of Systems Science*, 2013 - Taylor & Francis

A wireless sensor network (WSN)(singular and plural of acronyms are spelled the same) is a distributed system composed of autonomous sensor nodes wireless connected and randomly scattered into a geographical area to cooperatively monitor physical or

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Reliability assessment of wireless sensor nodes with non-linear battery discharge

D Bruneo, S Distefano, F Longo... - *Wireless Days (WD)*, ..., 2010 - ieeexplore.ieee.org

Abstract: Wireless sensor networks are constituted of a large number of tiny sensor nodes randomly distributed over a geographical region. In order to reduce power consumption, nodes undergo cycles of active-sleep periods that reduce their ability to send/receive data.

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Modeling and analysis of fault detection and fault tolerance in wireless sensor networks

A Munir, J Antoon, A Gordon-Ross - *ACM Transactions on Embedded ...*, 2015 - dl.acm.org

Abstract Technological advancements in communications and embedded systems have led to the proliferation of Wireless Sensor Networks (WSNs) in a wide variety of application domains. These application domains include but are not limited to mission-critical (eg,

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Connectance and reliability computation of wireless body area networks using signal flow graphs

A Peiravi - *Life Science Journal*, 2010 - sciencepub.net

DEPARTMENT OF ELECTRICAL ENGINEERING, SCHOOL OF ENGINEERING, FERDOWSI UNIVERSITY OF MASHHAD, MASHHAD, IRAN ali_peiravi@yahoo.com Abstract:

Ambulatory monitoring and health care using wireless body area networks is an active area

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Reliability evaluation of WSN with dynamic-dependent nodes

S Distefano - *International Journal of Reliability, Quality and Safety ...*, 2011 - World Scientific

A wireless sensor network (WSN) is a distributed system composed of autonomous sensor nodes wireless connected and randomly scattered into a geographical area to cooperatively monitor physical or environmental conditions. Adequate techniques and strategies are

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无线传感器网络可靠性研究进展

邱 娟, 姜宇, 胡成全 - *传感器与微系统*, 2011 - cqvip.com

无线传感器网络的应用越来越普及, 必须提供无线传感器网络可靠性进行评估的保证.

针 目前各种无线传感器网络可靠性的定义及其研究进行了分类, 分 讨论了不同类 定义的无线传感器网络可靠性模型建立和进展情况. 根据现有研究成果中存在的不足,

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Reliability of wireless sensor network: hotspot and critical challenges

N Yao, S Wang, Y Shang, J Shi - *Industrial Informatics (INDIN)*, ..., 2012 - ieeexplore.ieee.org

Abstract: Wireless Sensor Network (WSN) has attracted many concerns in different domains because of its special features. A WSN is a set of a large number of resource constrained sensor nodes which have abilities for information detection, data processing, and short-

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