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In this paper, we provide a cross-layer framework to evaluate and compare the energy efficiency of wireless networks under different levels of distribution of

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the signal processing load: (i ...

*Energy Efficient Throughput  
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In energy constrained wireless sensor networks WSNs, increasing the lifetime is one of the major challenges. A new low-voltage low-power consumption comparator for Successive Approximation Register Analogue to Digital Converter has been designed to prolong the lifetime in WSNs in this paper.

*Distributed Approximation Algorithms for  
Spectrum ...*

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*Energy efficient broadcast in multiradio  
multichannel ...*

Abstract. Clustering sensor nodes is an efficient technique to improve scalability and life time of a wireless sensor network (WSN). However, in a cluster based WSN, the leaders (cluster heads) consume more energy due to some extra load for various activities such as data collection, data aggregation, and communication of the aggregated data to the base station.

*Energy efficient multicast routing in ad  
hoc wireless networks*

Wireless communication networks,

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bottleneck Steiner tree, approximation algorithm, performance ratio phylogenetic . I. I. INTRODUCTION. triggered Wireless communication networks have been applied in a variety of defense and civil domains. The efficiency and . reliability. of . these applications rely on the

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Efficiency of Wireless Networks:  
Approximation Algorithms for the  
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*Energy and spectrum efficient wireless  
network design ...*

An asymptotic technique is presented  
for finding the spectral efficiency of

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multiantenna links in spatially distributed wireless networks where transmitters have channel-state-information (CSI) corresponding to their target receiver.

## *Approximation schemes for load balanced clustering in ...*

Energy efficiency and fault tolerance are two of the major concerns in wireless sensor networks (WSNs) for the target coverage. Design of target coverage algorithms for a large scale WSNs should incorporate both the energy efficiency and fault tolerance. In this paper, we study the coverage problem where the main objective is to construct two disjoint cover sets in randomly deployed WSNs based ...

## *Efficiency of Wireless Networks: Approximation Algorithms ...*

We proposed an optimal approach and an approximation approach with reduced complexity to network configuration for optimal utilization

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efficiency. The approximation approach has near optimal performance for sparse networks.

*Energy Efficient Fault Tolerant Coverage in Wireless ...*

The main contributions of this paper include: (1) We prove that the graphical version of energy efficient multicast routing problem in ad hoc wireless networks is unlikely to have an approximation algorithm with performance ratio of  $\ln(n)$ .

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```
@MISC{Goussevskaia10efficiencyof,  
author = {Olga Goussevskaia and  
Yvonne-Anne Pigolet and Roger  
Wattenhofer}, title = {Efficiency of  
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*Asymptotic spectral efficiency of*

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*multiantenna links in ...*

In wireless sensor network, a connected dominating set (CDS) can be used as a virtual backbone for efficient routing. Constructing a minimal CDS (MCDS) is good for packet routing and energy efficiency, but is an NP-hard problem. In this article, an efficient approximation MCDS construction algorithm E-MCDS (energy efficient MCDS

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An efficient method of spectrum allocation is a key factor to improve quality of service and performance of wireless networks. In this paper, we consider the spectrum allocation problem which asks how to allocate the least number of spectrum blocks in a



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field to ensure the service on any  
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*Energy efficient comparator for  
successive approximation ...*

Energy efficient broadcasting is a critical problem in Multi-Radio Multi-Channel (MRMC) wireless networks and has captured tremendous attention in the past decades.

*Efficient Deployment of Base Stations in  
Wireless ...*

Efficiency of Wireless Networks:  
Approximation Algorithms for the  
Physical Interference Model By Olga  
Goussevskaia, Yvonne-Anne Pignolet  
and Roger Wattenhofer Year: 2010

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