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Perspective to Internet of Things

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Energy Efficient Area Coverage For

In this paper, we study the problem of  
energy-efficient area coverage by the regular  
placement of sensors with adjustable sensing  
and communication ranges. We suggest a  
more accurate method to estimate efficiency

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than those currently used for coverage by sensors with adjustable ranges, and propose new density control models that considerably improve coverage using sensors with two sensing ranges.

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Energy-efficient Area Coverage by Sensors

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with Adjustable ...  
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(SpringerBriefs in Computer Science) 2014  
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Energy-Efficient Area Coverage for Intruder  
Detection in ...

Rizvi et al. proposed a distributed energy-  
efficient topology control algorithm referred  
to as A1 for connected area coverage in  
WSNs. Similar to A3 family protocols, A1

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uses the signal strength and residual energy as the criteria to select the dominator nodes. A1 only uses the hello message to construct the CDS-based backbone.

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An adaptive energy-efficient area coverage algorithm for ...

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an energy-efficient Area Coverage protocol for Heterogeneous Energy sensor networks (ACHE) is proposed. ACHE can achieve a good performance in terms of sensing area coverage, lifetime by minimizing energy consumption for control overhead, and balancing the energy load among all nodes. Adopting the hierarchical

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Energy-Efficient Area Coverage in  
Heterogeneous Energy ...

Since all the nodes are battery power  
therefore energy depletion is one of the  
major issues to the lifetime of the network.  
In this paper we propose a back up node for



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area coverage of the Ad hoc network that enhanced the proper use of energy by reducing the communication with the help of triangulation technique.

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Energy Efficient Area Coverage Mechanisms  
for Mobile Ad ...

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Energy-Efficient Probabilistic Area  
Coverage in Wireless Sensor Networks

Abstract: As the binary sensing model is a coarse approximation of reality, the probabilistic sensing model has been proposed as a more realistic model for characterizing the sensing region. A point is covered by sensor networks under the

# File Type PDF Energy Efficient Area Coverage For probabilistic sensing model if the ... Sensor Networks

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Energy-Efficient Probabilistic Area  
Coverage in Wireless ...

Yang et al. [16] studied energy-efficient area coverage in BRSNs, in which area coverage is designed to maintain full coverage of the

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monitoring area. By employing intersection  
point concept, they ...

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(PDF) Energy-efficient area coverage in  
bistatic radar ...

Energy-Efficient Area Coverage for Intruder  
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(SpringerBriefs in Computer Science)  
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Energy-Efficient Area Coverage for Intruder  
Detection in ...

Energy-efficient target coverage in wireless

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sensor networks Abstract: A critical aspect of applications with wireless sensor networks is network lifetime. Power-constrained wireless sensor networks are usable as long as they can communicate sensed data to a processing node.

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Energy-efficient target coverage in wireless sensor ...

The authors also provide the background and range of applications for area coverage and elaborate on system models such as the formal definition of area coverage and sensing models. Several chapters focus on energy-efficient intruder detection and



# File Type PDF Energy Efficient Area Coverage For intruder trapping under the well-known binary sensing model, along with intruder trapping under the probabilistic sensing model.

## Science

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Energy-Efficient Area Coverage for Intruder  
Detection in ...

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In this paper we propose a back up node for area coverage of the Ad hoc network that enhanced the proper use of energy by reducing the communication with the help of triangulation technique....

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Energy Efficient Area Coverage Mechanisms

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Detection in ...

Strong energy efficiency policies are vital to  
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achieving key energy-policy goals, and the  
so-called “ multiple benefits ” of energy  
efficiency (IEA, 2014a), such as reducing  
energy bills, addressing climate change and

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air pollution, improving energy security and  
increasing energy access.

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Energy Efficiency Indicators 2020 –  
Analysis - IEA

In this paper, we study the problem of  
energy-efficient area coverage by the regular

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placement of sensors with adjustable sensing and communication ranges. We suggest a more accurate method to estimate efficiency than those currently used for coverage by sensors with adjustable ranges, and propose new density control models that considerably improve coverage using sensors with two sensing ranges.

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Sensors | Free Full-Text | Energy-efficient  
Area Coverage ...

In this paper, an energy-efficient Area Coverage protocol for Heterogeneous Energy sensor networks (ACHE) is proposed. ACHE can achieve a good

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performance in terms of sensing area coverage, lifetime by minimizing energy consumption for control overhead, and balancing the energy load among all nodes.

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Energy-Efficient Area Coverage in  
Heterogeneous Energy ...



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In this paper, we study the problem of energy-efficient area coverage by the regular placement of sensors with adjustable sensing and communication ranges. We suggest a more accurate method to estimate efficiency than those currently used for coverage by sensors with adjustable ranges, and propose new density control models that

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considerably improve coverage using  
sensors with two sensing ranges.

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Energy-efficient Area Coverage by Sensors  
with Adjustable ...

Carle and Simplot propose another  
mechanism for energy-efficient connected

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area coverage for the case when all sensor nodes have the same sensing range and the communication range equals the sensing range. The goal of the algorithm is to select an area-dominating set of nodes of minimum cardinality, such that the selected set covers the given area.

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Energy-efficient coverage problems in  
wireless ad-hoc ...

Method Type of coverage Main objectives

Disjoint dominating Area coverage

Maximize sets [21] lifetime and energy of a

WSN Coverage configuration Area

coverage Improve protocol (CCP) [15]

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connectivity and energy efficiency Coverage  
based on CDS Area coverage Enhance  
network [22] lifetime and energy of a WSN  
Placement algorithm Area coverage  
Coverage and for nodes [19] and Target  
connectivity coverage Disjoint set cover  
Target coverage Energy efficient algorithm  
[23] strong coverage Density ...

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