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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 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.

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

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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 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.

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

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

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

Energy Efficient Area Coverage Mechanisms for Mobile Ad ...

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 probabilistic sensing model if the ...

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

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

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Energy-Efficient Area Coverage for Intruder Detection in Sensor Networks: He, Shibo, Chen, Jiming, Li, Junkun: Amazon.com.au: Books

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

Energy-efficient target coverage in wireless 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.

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 intruder trapping under the well-known binary sensing model, along with intruder trapping under the probabilistic sensing model.

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

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Energy Efficient Area Coverage Mechanisms for Mobile Ad ...

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

Strong energy efficiency policies are vital to 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 air pollution, improving energy security and increasing energy access.

Energy Efficiency Indicators 2020 – Analysis - IEA

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 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 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.

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] 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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