

Energy Efficient Area Coverage For Intruder Detection In Sensor Networks Springerbriefs In Computer Science

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Energy Efficient Area Coverage For

Yang et al. [16] studied energy-efficient area coverage in BRNs, in which area coverage is designed to maintain full coverage of the monitoring area. By employing intersection point concept, ...

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

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 ...

In terms of sensing energy efficiency, model B-3 is slightly less effective than model A-3, but it has several advantages due to its simpler grid structure. The location of the sensors is easier to find, and such coverage is more convenient for rectangle area coverage. Moreover, model B-3 has a smaller communication energy consumption per area.

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

3. Energy-efficient area coverage algorithm. This paper proposes the degree-constrained minimum-weight connected dominating set (DCDS) problem for modeling the energy-efficient coverage problem in WSNs. The CDS size remains the primary concern of the CDS-based coverage protocols.

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

Sensing coverage and energy consumption are two primary issues in wireless sensor networks. Sensing coverage is closely related to network energy consumption. The performance of a sensor network depends to a large extent on the sensing coverage, and its lifetime is determined by its energy consumption. In this paper, an energy-efficient Area Coverage protocol for Heterogeneous Energy sensor ...

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 ...

In this paper, 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.

Energy-Efficient Area Coverage in Heterogeneous Energy ...

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.

Energy-Efficient Probabilistic Area Coverage in Wireless ...

Energy-Efficient Area Coverage for Intruder Detection in Sensor Networks First Online: 24 January Free Download Energy-Efficient Area Coverage For Intruder Detection In Sensor Networks PDF Book Metrics details. Monitoring the illegal movement across national border effectively is a challenging problem.

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The energy intensity of a country's economy is often used as an indicator of energy efficiency - mainly because, at an aggregate level, it is a proxy measurement for the energy required to satisfy the energy services demanded, and the fact that this indicator is relatively easily available to evaluate and compare across countries.

Energy Efficiency Indicators 2020 - Analysis - IEA

Energy Efficient Area Coverage Mechanisms for Mobile Ad Hoc Networks. ... Energy efficient communications in ad hoc and sensor wireless networks is a very important topic.

Energy Efficient Area Coverage Mechanisms for Mobile Ad ...

We have taken energy efficient coverage protocols based on area coverage into consideration, and described the working mechanism of coverage protocols with an in-depth analysis. The objective of the coverage protocols is to keep a necessary set of working nodes on while turning off the redundant nodes for effective coverage and energy efficiency.

A survey on energy efficient coverage protocols in ...

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 ...

Energy-efficient Area Coverage by Sensors with Two Sensing Ranges Vyacheslav Zalyubovskiy Laboratory of Discrete Optimization in Operations Research Sobolev Institute of Mathematics, Russia Dae-Joon Hwang School of Information and Communication Engineering Sungkyunkwan University, Korea slava@math.nsc.ru djhwang@skku.edu ABSTRACT Density control is an important technique for prolonging a ...

Energy-efficient area coverage by sensors with two sensing ...

Coverage in Wireless Sensor Networks* S. Vashistha, A. P. Azad, A. Chockalingam Department of ECE, Indian Institute of Science, Bangalore-560012 Abstract: In this paper, we are concerned with en- area [1],[2]. Energy is consumed in the sensor nodes ergy efficient area monitoring using information cov- for the purpose of sensing aswell ...

Energy Efficient Area Monitoring Using Information ...

In wireless sensor networks, density control is an important technique for prolonging a network's lifetime. To reduce the overall energy consumption, it is desirable to minimize the overlapping sensing area of sensor nodes. In this paper, we study the problem of energy-efficient area coverage by the regular placement of sensors with adjustable sensing and communication ranges.

Energy-efficient area coverage by sensors with two ...

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

Aiming at the above shortages, this paper proposed the energy-efficient coverage control with multinodes redundancy verification (ECMRV). In this paper, the coverage probability and covering expected value of sensor nodes are solved by using the sector domains of the coverage area when the moving target nodes are passing through the monitoring area; as for the energy consumption, this paper ...