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Barrier Coverage With Wireless Sensors intrusion attempts. One can now replace such barriers with stealthy and wireless sensors. In this paper, we develop theoretical foundations for laying barriers of wireless sensors. We define the notion of ϵ -barrier coverage of a belt region using wireless sensors. We propose efficient algorithms using Barrier Coverage With Wireless Sensors Coverage in wireless sensor networks measures how long the physical space is monitored by the sensors. Barrier coverage is an issue in wireless sensor networks, which is used for security ... Barrier coverage with wireless sensors | Request PDF If a sensor network guarantees that

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every penetrating object will be detected by at least k distinct sensors before it crosses the barrier of wireless sensors, we say the network provides k -barrier coverage. In this paper, we develop theoretical foundations for k -barrier coverage. Barrier coverage with wireless sensors |

SpringerLink before it crosses the barrier of wireless sensors, we say the network provides k -barrier coverage. In this paper, we develop theoretical foundations for k -barrier coverage. We propose efficient algorithms using which one can quickly determine, after deploying the sensors, whether the deployment region is k -barrier covered. Next, we establish the optimal deploy- Barrier Coverage With Wireless Sensors - Memphis To

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provide weak barrier coverage in a belt region with high probability, one is likely to require significantly less sensors than that required for strong barrier coverage with high probability. Also, if the sensors are stealthy, then having weak barrier coverage with high probability may be enough to detect all intruders with high probability. Barrier coverage with wireless sensors - ACM Digital Library For the barrier coverage problem in distributed settings, we give the first distributed local algorithms for fully synchronous unoriented sensors. Our algorithms achieve barrier coverage for a line segment barrier when there are enough sensors to cover the entire barrier. Our first algorithm is oblivious and terminates in $\Theta(n)$

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Barrier Coverage with Wireless
Sensors Intruder detection is an
important application area for
wireless sensor barrier-coverage -
Barrier Coverage with Wireless
Sensors ... barrier coverage of
wireless sensor networks. The
notion of barrier coverage was first
introduced in the context of
robotics sensors [1]. The goal of
barrier coverage is to detect
intruders attempting to cross from
one side of a region to the opposite
side. Several different barrier
coverage measures and the related
issues have been studied. Barrier
Coverage with Airdropped Wireless

Sensors The barrier coverage of a wireless sensor network is an important surveillance application of Internet of Things. Barrier coverage guarantees that all intruders traversing the protected region are ... Local Barrier Coverage in Wireless Sensor Networks ... Abstract: In this paper, we define a new type of coverage problem named target-barrier coverage problem in wireless sensor networks. A target-barrier is a continuous circular barrier formed around the target. The target-barrier has a d bound constraint that is set depending on applications and needs, where d bound is the minimum distance of the constructed barrier from the target. The Target-Barrier Coverage Problem in Wireless Sensor

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... Barrier coverage is a critical issue in wireless sensor networks (WSNs) for security applications, which aims to detect intruders attempting to penetrate protected areas. However, it is difficult to achieve desired barrier coverage after initial random deployment of sensors because their locations cannot be controlled or predicted. In Barrier Coverage in Wireless Sensor Networks Barrier coverage is a critical issue in wireless sensor networks deployed in security applications (e.g., border protection), whose performance strongly depends on the locations of sensor nodes. Existing works on barrier coverage typically assume that sensor nodes have accurate location information, which is not reasonable or practical for many

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real sensor networks. Achieving location error tolerant barrier coverage for ... Barrier coverage is a critical issue in wireless sensor networks (WSNs) for security applications, which aims to detect intruders attempting to penetrate protected areas. However, it is difficult to achieve desired barrier coverage after initial random deployment of sensors because their locations cannot be controlled or predicted. "Barrier Coverage in Wireless Sensor Networks" by Zhibo Wang Abstract: Barrier coverage with wireless sensors aims at detecting intruders who attempt to cross a specific area, where wireless sensors are distributed remotely at random. This paper considers limited-power sensors with adjustable ranges deployed

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along a linear domain to form a barrier to detect intruding incidents. Problem Specific MOEA/D for Barrier Coverage with Wireless ... The reliability of k-barrier coverage for wireless sensor networks is evaluated in this article. We construct a two-dimensional k-within-consecutive- $r \times s$ -out-of- $m \times n$:F system to describe the k-barrier coverage problem and propose the definition of the k-barrier coverage reliability. If the sensing radius r of each sensor is equal to half of the horizontal distance d between two adjacent ... k-barrier coverage reliability evaluation for wireless ... Barrier coverage is a critical issue in wireless sensor networks (WSNs) for security applications, which however cannot be guaranteed to

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be formed after initial random deployment of sensors. Cost-effective barrier coverage formation in heterogeneous ... Intrusion detection using barrier coverage is one of many applications existed in wireless sensor networks. The main purpose of using barrier coverage is to monitor the borders of a specific area against the intruders that are trying to penetrate this critical area by ensuring the total coverage with a low cost and extending the lifetime of the network, many solutions have been proposed in the ... Optimal barrier coverage for critical area surveillance ... Wireless sensor networks, barrier coverage, quality, measuring, repairing. 1. INTRODUCTION Recently there has been tremendous interest in monitoring borders with sensor

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networks. In a recent experiment, Permission to make digital or hard copies of all or part of this work for Measuring and Guaranteeing Quality of Barrier-Coverage in ... Abstract—Barrier coverage of wireless sensor networks has been studied intensively in recent years under the assumption that sensors are deployed uniformly at random in a large area (Poisson point process model). However, when sensors are deployed along a line (e.g., sensors

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