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Barrier Coverage With Wireless Sensors

While weak barrier-coverage with high probability guarantees the detection of intruders as they cross a barrier ofstealthysensors, a sensor network providing strong barrier- coverage with

high probability (at the expense of more sen- sors) guarantees the detection of all intruders crossing a bar- rier of sensors, even when the sensors arenotstealthy.

Barrier Coverage With Wireless Sensors

Barrier coverage is an important issue in many wireless sensor network

applications, such as border intrusion detection and environmental safety monitoring.

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stealthy sensors, a sensor network providing strong barrier-coverage with high probability (at the expense of more sensors) guarantees the detection of all intruders crossing a barrier of sensors, even when the sensors are not stealthy.

Barrier coverage with wireless sensors | Proceedings of ...

before it crosses the barrier of wireless sensors, we say the network provides- barrier coverage. In this paper, we develop theoretical foundations for- barrier coverage. We propose efcient algorithms using which one can quickly determine, after deploying the sensors, whether the deployment region is- barrier covered. Next, we establish the

optimal deploy-

Barrier Coverage With Wireless Sensors - Memphis

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 di cult 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 WITH WIRELESS SENSOR NETWORKS Mohsen Eftekhari

Hesari A thesis In the Department of Computer Science & Software Engineering Presented in Partial Fulfillment of the Requirements For the Degree of Doctor of Philosophy (Computer Science) at Concordia University Montr´eal, Qu ´ebec, Canada April 2014 c Mohsen Eftekhari Hesari, 2014

BARRIER COVERAGE WITH WIRELESS SENSOR NETWORKS

Barrier coverage is one of the most important issues for various sensor network applications, such as national border control, critical resource protection, security surveillance, and intruder detection. 1,2 In these

applications, the barrier coverage of a sensor network characterizes its capacity to detect intruders that attempt to cross the region of interest. The conventional research of barrier coverage mainly focused on traditional sensors which assume that the sensor has an omniangle ...

Strong barrier coverage of directional sensor networks ...

Recently, the barrier-coverage of wireless sensor network re- ceived huge attention thanks to the important applications such as bor- der protection. In practice, sensor nodes are subject to intermittent fail- ure to detect objects within its sensing range due to many

reasons. There- fore, a barrier of sensor nodes may exhibit temporal loopholes.

Fortifying Barrier-coverage of Wireless Sensor Network ...

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 real sensor networks.

Achieving location error tolerant barrier coverage for ...

Aset of barrier-covers with corresponding schedule forms a non-penetrable barrier-coverage of sensors only if there are no potential-breach-points between any two alter- nating barrier-covers in the set. The “non-penetrable barrier-coverage”isequivalen ttothe“non-crossingbarrier- coverage”. Definition4(crossingbarrier-covers).

Maximum lifetime dependable barrier-coverage in wireless ...

Barrier coverage is a critical issue in wireless sensor networks (WSNs) for security applications, which however cannot be guaranteed to be formed after initial random deployment of sensors.

Cost-effective barrier coverage formation in heterogeneous ...

If a sensor network guarantees that every penetrating object will be detected by at least £ distinct sensors before it crosses the barrier of wireless sensors, we say the network provides £-barrier coverage. In this paper, we develop theoretical foundations for

£-barrier coverage.

CiteSeerX — Barrier coverage with wireless sensors

To address this problem, a dynamic barrier coverage (DBC) method combining inspection robot and wireless sensor network (WSN) is proposed to realize a low-cost, energy-saving and

dynamic smart grid-oriented sensing system based on mobile wireless sensor network.

Dynamic Barrier Coverage in a Wireless Sensor Network 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

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 literature in order to solve the coverage problem in wireless

sensor networks, which became a vital field of research.

Optimal barrier coverage for critical area surveillance ...

Abstract: Barrier coverage is an important issue in wireless sensor networks, which guarantees to detect any intruder attempting to cross a

barrier or penetrating a protected region monitored by sensors.

Minimum (k)-angle barrier coverage in wireless camera ...

Barrier coverage has been widely used to detect intrusions in wireless sensor networks (WSNs). It can fulfill the monitoring task while extending the

lifetime of the network. Though barrier coverage in WSNs has been intensively studied in recent years, previous research failed to consider the problem of intrusion in

Achieving Crossed Strong Barrier Coverage in Wireless ...

barrier coverage with high probability

when sensors are deployed randomly. We introduced two notions of probabilistic barrier coverage in a belt region - weakand strongbarrier coverage. While weak barrier-coverage with high probability guarantees the detection of intruders as they cross a barrier of stealthy sensors, a sensor network

Barrier Coverage - Computer Science - The University of ...

Abstract—A subset of sensors in wireless sensor networks provides barrier-coverage over an area of interest if the sensor nodes are dividing the area into two regions such that any object moving from one region to another is

guaranteed to be detected by a sensor.