

Barrier Coverage With Wireless Sensors Iti Algorithmik Ii

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Barrier Coverage With Wireless Sensors

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the optimal deployment pattern to achieve F-barrier coverage when deploying sensors deterministically Finally, we con-sider barrier coverage with high probability when sensors are deployed randomly We introduce two notions of probablis-tic barrier coverage in a ...

Barrier Coverage With Wireless Sensors

barrier coverage, is to derive critical conditions using which one can compute the minimum number of sensors needed to ensure barrier coverage with high probability Deriving criti-cal conditions for-barrier coverage is, however, still an open problem We derive critical conditions for a weaker notion of barrier coverage, called weak-barrier

Barrier coverage with wireless sensors - Montana State Univ

818 Wireless Netw (2007) 13:817-834 Fig 1 The United States-Mexico border region is covered by at least k distinct sensors, referred to as k-full coverage in this paper By ...

Barrier Information Coverage with Wireless Sensors

Barrier Information Coverage with Wireless Sensors Guanqun Yang and Daji Qiao Iowa State University, Ames, IA 50011 {gqyang, daji}@iastateedu Abstract—Sensor networks have been deployed for many bar- rier coverage applications such as intrusion detection and border

Fortifying Barrier-coverage of Wireless Sensor Network ...

As a result, a barrier of wireless sensors has a chance to exhibit loopholes which allow some intruder to pass the barrier without being detected Unfortunately, in many applications scenarios of barrier-coverage of wireless sensor networks such as enemy intrusion detection in the battle eld, the intruders are intelli-

Strong Barrier Coverage with Directional Sensors

Abstract—The barrier coverage model was proposed for ap-plications in which sensors are deployed for intrusion detection In this paper, we study a

strong barrier coverage problem in wireless sensor networks with directional sensors First, we introduce the directional coverage graph to model barrier coverage with directional sensors

Maximum lifetime dependable barrier-coverage in wireless ...

maximum lifetime k -barrier-cover of wireless sensors by Kumar et al To simplify our discussion, we set a security k -barrier-coverage To simplify our discussion, we set k to 1 and introduce a new security problem in barrier-coverage, namely barrier-breaches Then, we describe how barrier-

Barrier Coverage by Sensors with Adjustable Ranges

14 Barrier Coverage by Sensors with Adjustable Ranges HAOSHENG FAN, MINMING LI, and XIANWEI SUN, City University of Hong Kong PENG-JUN WAN, Illinois Institute of Technology YINGCHAO ZHAO, Caritas Institute of Higher Education One of the most fundamental tasks of wireless sensor networks is to provide coverage of the deployment

Measuring and Guaranteeing Quality of Barrier-Coverage in ...

Measuring and Guaranteeing Quality of Barrier-Coverage in Wireless Sensor Networks Ai Chen Department of Computer Science and Engineering The Ohio State University Columbus, OH 43210 chen1109@osu.edu Ten H Lai Department of Computer Science and Engineering The Ohio State University Columbus, OH 43210 lai@cseohio-state.edu Dong Xuan

Automatic Barrier Coverage Formation with Mobile Sensor ...

during the barrier coverage formation If fewer sensors can form the same strong k -barrier coverage, it will be more beneficial in cost Obviously, manual deployment can take full advantage of n sensors to set approximate optimal barrier coverage However, since the region of ...

Barrier Coverage in Camera Sensor Networks

Barrier coverage has attracted much attention in the past few years However, most of the previous works focused on traditional scalar sensors We propose to study barrier coverage in camera sensor networks One fundamental difference between camera and scalar sensor is that cameras from different positions can form quite different views of

Maximum Lifetime of Reinforced Barrier-Coverage in ...

Maximum Lifetime of Reinforced Barrier-Coverage in Wireless Sensor Networks Hyunbum Kim Department of Computer Science Bethune-Cookman University Daytona Beach, Florida 32114 kimh@cookman.edu Jorge A Cobb Department of Computer Science The University of Texas at Dallas Richardson, Texas 75080 cobb@utdallas.edu

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

Minimum (k, ω)-angle barrier coverage in wireless camera sensor networks 3 Figure 1 (a) ($k, \omega = 2$) angle covered example and (b) camera sensing model Our contributions are as follows • We study the minimum (k, ω)-angle barrier coverage ($M_{k, \omega}ABC$) problem, ...

Barrier Coverage in Wireless Sensor Networks

Barrier Coverage in Wireless Sensor Networks Zhibo Wang University of Tennessee - Knoxville, zwang32@utk.edu This Dissertation is brought to you for free and open access by the Graduate School at Trace: Tennessee Research and Creative Exchange It has been

Non-linear Barrier Coverage using Mobile Wireless Sensors

barrier coverage with low movement of the sensors There exist many works on formation of barrier coverage using mobile sensors Some of these works propose centralized solutions for deploying sensors to achieve barrier coverage [7], [8], [6] Centralized solutions are good since all the

information is available at a central station Hence,

Optimal Sleep-Wakeup Algorithms for Barriers of Wireless ...

sensors for intrusion detection in urban regions, as well (eg, for securing private premises, corporate establishments, and government buildings) When wireless sensors are deployed as a barrier to detect moving objects of interest the sensor network is said to provide barrier coverage [3] In such cases, the sensor network acts as a smart

Barrier Coverage in Hybrid Directional Sensor Networks

angles In this paper, we study how to efficiently achieve barrier coverage in hybrid directional sensor networks by moving mobile sensors to fill in gaps and form a barrier with stationary sensors In specific, we introduce the notion of directional barrier graph to model the ...

Minimizing the Maximum Sensor Movement for Barrier ...

Minimizing the Maximum Sensor Movement for Barrier Coverage in the Plane Shuangjuan Lia and Hong Shena,b* aSchool of Information Science and Technology, Sun Yat-Sen University, China bSchool of Computer Science, University of Adelaide, Australia Email: lishj2013@hotmailcom, hongsh01@gmailcom *Corresponding author Abstract—Border surveillance for intrusion detection is an

A Trust Management based Framework for Fault-tolerant ...

A Trust Management based Framework for Fault-tolerant Barrier Coverage in Sensor Networks Shibo He y, Yuanchao Shu , Xianbin Cui , redundant coverage (ie, multiple sensors can simultaneously We formulate the problem of fault-tolerant barrier cover-age in ...

International Journal of Distributed A fully distributed ...

work provides barrier coverage, then introduced the concept of “quality of barrier coverage” and proposed an effective way to measure it, which can be helpful to evaluate the coverage quality of a deployed barrier cov-erage Fan et al15 studied the coverage of a line interval with a set of wireless sensors with adjustable coverage