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Note: Refresh page to reflect updated preferences.

Search : Metadata Only Full Text & Metadata 

in

AND in  

AND in  

 Add New Line

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SEARCH

▶ CONTENT FILTER

▶ PUBLISHER

▶ CONTENT TYPES

▶ PUBLICATION YEAR

SEARCH



ENTER KEYWORDS, PHRASES, OR A BOOLEAN EXPRESSION

Note: Use the drop down lists to generate the correct Operator and Data Field Codes.

This wizard will NOT build your expression. [View examples of how to write a boolean search string](#)

Search : Metadata Only Full Text & Metadata

Data Fields



Operators



SEARCH GUIDELINES

Operators need to be in all caps
– i.e. AND/OR/NOT/NEAR.

Asterisk wildcards cannot be
used within quotes or with the
NEAR/ONEAR operators.

There is a maximum of 15
search terms.

Reset All

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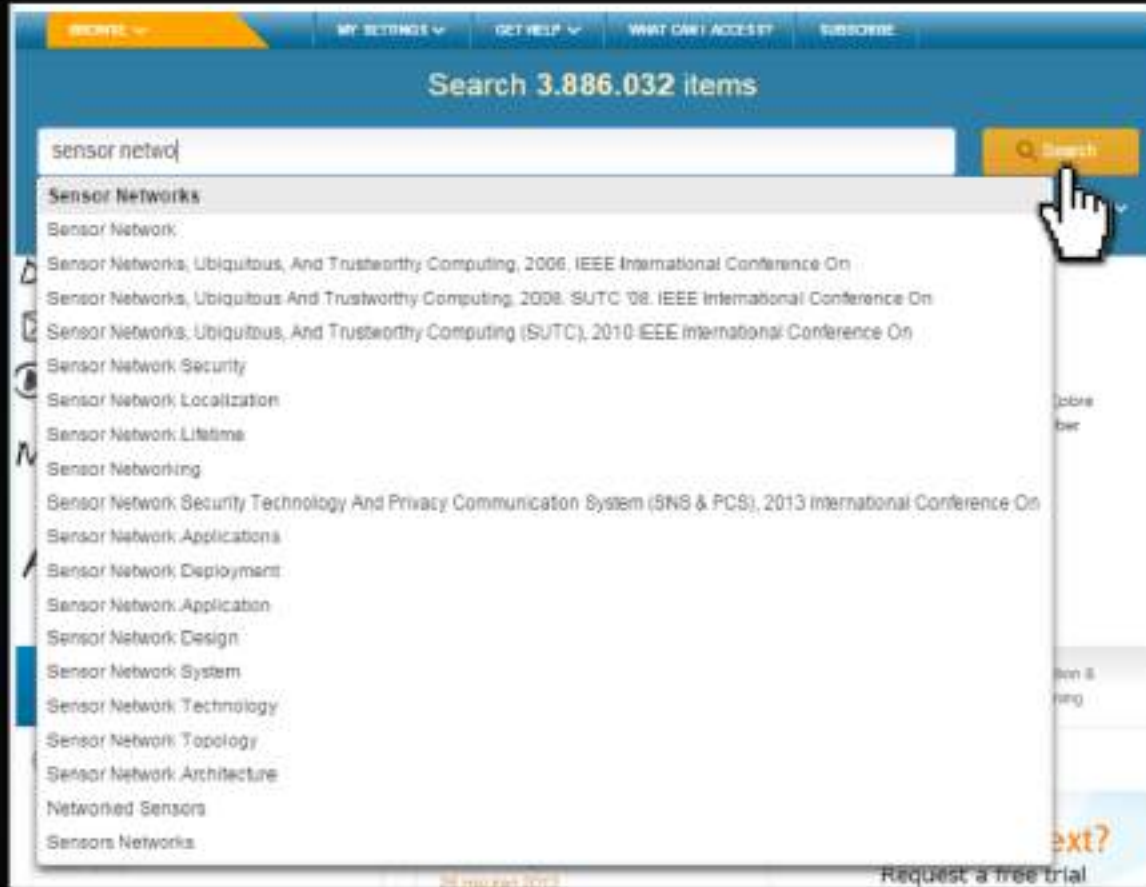
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Örnek bir tarama yapalım...

Aramanızı yazmaya başladığınız anda çıkan açılır menüdeki seçenekleri kullanabilirsiniz!



The screenshot displays a search engine interface with a search bar containing the text "sensor network". A dropdown menu is open, listing various search suggestions. The suggestions include "Sensor Networks", "Sensor Network", "Sensor Networks, Ubiquitous, And Trustworthy Computing, 2006. IEEE International Conference On", "Sensor Networks, Ubiquitous And Trustworthy Computing, 2008. SUTC '08. IEEE International Conference On", "Sensor Networks, Ubiquitous, And Trustworthy Computing (SUTC), 2010 IEEE International Conference On", "Sensor Network Security", "Sensor Network Localization", "Sensor Network Lifetime", "Sensor Networking", "Sensor Network Security Technology And Privacy Communication System (SNS & PCS), 2013 International Conference On", "Sensor Network Applications", "Sensor Network Deployment", "Sensor Network Application", "Sensor Network Design", "Sensor Network System", "Sensor Network Technology", "Sensor Network Topology", "Sensor Network Architecture", "Networked Sensors", and "Sensors Networks". A hand cursor is pointing at the "Sensor Networks" suggestion. The search bar also shows "Search 3.886.032 items" and a "Search" button. The interface includes navigation links like "HOME", "MY SETTINGS", "GET HELP", "WHAT CAN I ACCESS?", and "SUBSCRIBE".

sensor network

Search 3.886.032 items

Search

Sensor Networks

Sensor Network

Sensor Networks, Ubiquitous, And Trustworthy Computing, 2006. IEEE International Conference On

Sensor Networks, Ubiquitous And Trustworthy Computing, 2008. SUTC '08. IEEE International Conference On

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Sonuç Ekranı

Özellikle görüntülemek istediğiniz sonuçları elde etmek için bu kısma ilgili teriminizi yazabilirsiniz!

Tüm sonuçları görüntüleyebildiğiniz gibi sadece açık erişimli sonuçlara da erişebilirsiniz!

Sonuçlarınızı bu sütundaki seçeneklerle filtreleyebilirsiniz!

The screenshot shows a search results page for 'sensor networks'. The page is divided into a left sidebar for filtering and a main content area for search results. The sidebar includes a search box, a 'Search within results' button, and several filter categories: 'All Results' (selected) and 'Open Access Only'; 'CONTENT TYPE' with options like 'Conference Publications (49,220)', 'Journals & Magazines (9,581)', 'Early Access Articles (317)', 'Books & eBooks (236)', 'Standards (29)', and 'Education & Learning (4)'; and 'PUBLICATION YEAR' with a range selector from 1800 to 2014. The main content area shows 'SEARCH RESULTS' for 'sensor networks' with 77,387 results returned. It includes options for 'Results per page' (25) and 'Sort by' (Relevance). Below this are navigation links for 'Select All on Page', 'Deselect All', and a list of results. The first result is 'Mobile Network Supported Wireless Sensor Network Services' by Krca, S.; Teiatsis, V.; Matusikova, K.; Johansson, M.; Cubic, I.; Glitho, R., published in IEEE International Conference on Mobile Adhoc and Sensor Systems, 2007. The second result is 'Security topology in wireless sensor networks with routing optimisation' by Ismail, M.; Sanavullah, M.V., published in Wireless Communication and Sensor Networks, 2008.

Tüm sonuçları
görüntüleyebildiğiniz gibi sadece
açık erişimli sonuçlara da
erişebilirsiniz!

Sonuçlarınızı bu
sütündaki
seçeneklerle
filtreleyebilirsiniz!

The image shows a search results filter panel with several sections. The top section is titled "FILTER THESE RESULTS" and contains a search box labeled "Search within results:" with a "Search" button. Below this is a section with two radio buttons: "All Results" (selected) and "Open Access Only". The next section is "CONTENT TYPE" with a dropdown arrow and a list of categories: "Conference Publications (67,220)", "Journals & Magazines (9,581)", "Early Access Articles (317)", "Books & eBooks (236)", "Standards (29)", and "Education & Learning (4)". The final section is "PUBLICATION YEAR" with a dropdown arrow, radio buttons for "Single Year" and "Range" (selected), a range slider from 1899 to 2014, and input fields for "From: 1899" and "To: 2014". Orange arrows point from the text boxes on the left to these specific filter options.

FILTER THESE RESULTS

Search within results:

All Results
 Open Access Only

CONTENT TYPE

- Conference Publications (67,220)
- Journals & Magazines (9,581)
- Early Access Articles (317)
- Books & eBooks (236)
- Standards (29)
- Education & Learning (4)

PUBLICATION YEAR

Single Year Range

1899 2014

From:

To:

**Tüm sonuçları
görüntüleyebildiğiniz gibi sadece
açık erişimli sonuçlara da
erişebilirsiniz!**

**Sonuçlarınızı bu
sütundaki**

The image shows a search results filter sidebar with the following elements:

- FILTER THESE RESULTS** (Section Header)
- Search within results:** (Text label above a search input field)
- All Results** (Selected radio button)
- Open Access Only** (Unselected radio button)
- CONTENT TYPE** (Section Header)
- Conference Publications (67,220)** (Unselected checkbox)
- Journals & Magazines (9,581)** (Unselected checkbox)
- Early Access Articles (317)** (Unselected checkbox)
- Books & eBooks (236)** (Unselected checkbox)
- Standards (29)** (Unselected checkbox)

Orange arrows point from the filter options to the text boxes on the left. One arrow points from the 'All Results' radio button to the first text box. Another arrow points from the 'Open Access Only' radio button to the second text box. A third arrow points from the 'CONTENT TYPE' section header to the third text box.

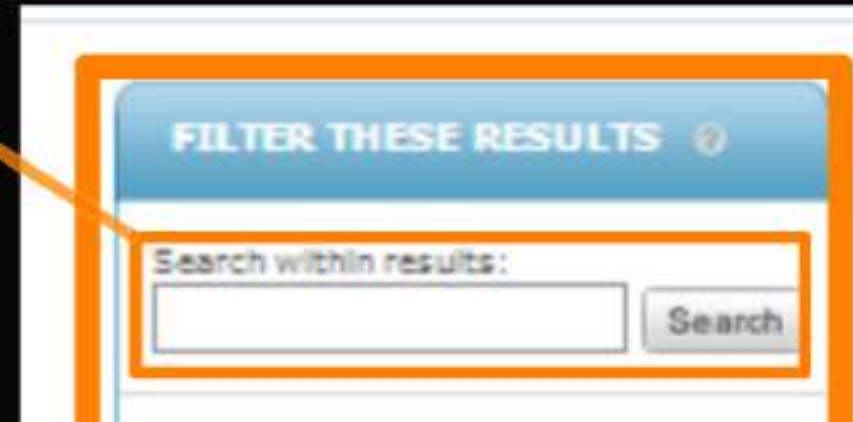
Sonuç



Yıldız (*) ile sonuçların ilgili kategorilerine ekli edebilirsiniz. Örneğin "spor" sonuçları tennis, swimming, soccer ile sonuçları ve perlon ile sonuçları diğer sonuçları da gösterilebilir.



Özellikle görüntülemek istediğiniz sonuçları elde etmek için bu kısma ilgili teriminizi yazabilirsiniz!





Yıldız (*) ile terimlerin değişik varyasyonlarını elde edebilirsiniz. Örneğin "secur*" yazarak secure, securing, security terimlerini ve yanlarına aldıkları diğer terimleri de görüntüleyebilirsiniz!

Sonuç Ekranı

The screenshot shows a search results page with the following elements:

- SEARCH RESULTS** box: Contains search criteria: "You searched for: **sensor networks** , **Security** (x)", "You Refined by: Content Type: **Journals & Magazines** (x)", "Publication Year: **2005 - 2013** (x)", and "10 Results returned".
- Need Full-Text?** box: "Request a free trial to access articles for your organization." with a **FREE TRIAL** button.
- SEARCH HISTORY** box: "Search history is available using your personal IEEE account."
- Sort by:** Relevance
- Select all on Page | Deselect all**
- Guest editorial: Special issue on wireless sensor networks, cyber-physical systems, and internet of things** (TUP JOURNALS & MAGAZINES):
 - Mei, Xufei ; Zhao, Chi ; He, Yuan ; Yang, Zheng ; Tang, Shaodan ; Wang, Weichao
 - Tsinghua Science and Technology
 - Volume: 16, Issue: 6
 - Digital Object Identifier: 10.1016/S1007-0214(11)70074-8
 - Publication Year: 2011, Page(s): 559 - 560
 - PDF (164 KB)
- Practical Secure Communication for Integrating Wireless Sensor Networks Into the Internet of Things** (IEEE JOURNALS & MAGAZINES):
 - Fagen Li ; Pan Xiong
 - Sensors Journal, IEEE
 - Volume: 13, Issue: 10
 - Digital Object Identifier: 10.1109/ISEN.2013.2262271
 - Publication Year: 2013, Page(s): 3677 - 3684
 - PDF (325 KB) | HTML

Annotations in Turkish:

- Blue box: "Burdaki seçeneklerle sonuçlarınızı kişiselleştirebilirsiniz (tüm seçenekler sonuçlarınızı iznelerlemeye başladıktan sonra kullanılabılır olacaktır.)"
- Blue box: "Herhangi bir sonuca tıklayalım... (Bağlantıya tıklayarak sonuca ulaşabildiğiniz gibi sonuçun en altında yer alan seçenekleri de kullanabilirsiniz.)"
- Blue box: "Kaynakça için ilgili bilgileri PDF'ye indirebilir, çözümleri, atf sayısını da görebilirsiniz."
- Blue box: "Sort by: tüm sonuçları sıralama, part sonuçlardan editöre, Etkinlik için, ilgiliye ya da en çok atf alanlar için atf alanına göre sıralayabilirsiniz!"

Filtrelenen seçenekleri burda görebildiğiniz gibi, "x" işaretine tıklayarak dilediğinizi çıkarabilirsiniz!

Sonuç Ekranı

SEARCH

beta
Author Search | Advanced Search | Preferences | Search Tips | More Search Options

SEARCH RESULTS

You searched for: **sensor networks** , **Security** (x)

You Refined by:
Content Type: **Journals & Magazines** (x)
Publication Year: **2005 - 2013** (x)

10 Results returned

Sort by: Relevance

Select All on Page | Deselect All

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Guest editorial: Special issue on wireless sensor networks, cyber-physical systems, and internet of things

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Tsinghua Science and Technology
Volume: 16 , Issue: 6
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arınizi
çenekler
ladıktan
tır.)

Filtrelenen seçenekleri burda görebildiğiniz gibi, "x" işaretine tıklayarak dilediğinizi çıkarabilirsiniz!

10 Results returned

FREE TRIAL

Sort by: Relevance

SEARCH HISTORY

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n wireless sensor
ems, and internet of

Yang, Zheng ;

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559 - 560

'sort by:' kısmıyla sonuçlarınızı; yeni sonuçlardan eskilere, A'dan Z'ye, ilgililiğe ya da en çok atıf alanlardan en az atıf alanlara şeklinde sıralayabilirsiniz!

- All Results
- Open Access Only

CONTENT TYPE

PUBLICATION YEAR

AUTHOR

AFFILIATION

PUBLICATION TITLE

PUBLISHER

Publication Year: 2009 - 2013

10 Results returned

Sort by: Relevance

Select All on Page | Deselect All



Guest editorial: Special issue on wireless sensor networks, cyber-physical systems, and internet of things

Mao, XuFei ; Zhou, Chi ; He, Yuan ; Yang, Zheng ; Tang, Shaojie ; Wang, Weichao
Tsinghua Science and Technology

Volume: 16 , Issue: 6

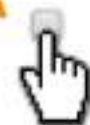
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Publication Year: 2011 , Page(s): 559 - 560

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| Quick Abstract | PDF (164 KB)

Burdaki seçeneklerle sonuçlarınızı kişiselleştirebilirsiniz! (tüm seçenek sonuçlarınızı işaretlemeye başladıktan sonra kullanılabilir olacaktır.)



Practical Secure Communication for Integrating Wireless Sensor Networks Into the Internet of Things

Fagen Li ; Pan Xiong

Sensors Journal, IEEE

Volume: 13 , Issue: 10

Digital Object Identifier: 10.1109/JSEN.2013.2262271

Publication Year: 2013 , Page(s): 3677 - 3684

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varsa, atıf sayısını da**

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Practical Secure Communication in Wireless Sensor Networks Int Things

Fagen Li ; Pan Xiong
Sensors Journal, IEEE
Volume: 13 , Issue: 10
Digital Object Identifier: 10.1109
Publication Year: 2013 , Page(s):
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 |  Quick Abstract |  P

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1. Yared, R.; Cartigny, J.; Defago, X.; Wiesmann, M. "Locality-preserving distributed path reservation protocol for asynchronous cooperative mobile robots", *Autonomous Decentralized Systems, 2007. ISADS '07. Eighth International Symposium on*, On page(s): 188 - 195

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2- P. Veri,ssimo and A. Casimiro, The Timely Computing Base Model and Architecture, h...



3- A. Casimiro and P. Veri,ssimo, Using the Timely Computing Base for Dependable QoS A...



4- A. Casimiro and P. Veri,ssimo, Generic Timing Fault Tolerance Using a Timely Comput...



5- M. Correia, P. Veri,ssimo, and N.F. Neves, The Design of a COTS Real-Time Distribut...



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Fagen Li ; Pan Xiong

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It is a wireless sensor network (WSN) is integrated into the Internet as a part of the Internet of Things (IoT), there will appear new security challenges, such as setup of a secure channel between a sensor node and an Internet host. In this paper, we propose a heterogeneous online and offline signcrypt scheme to secure communication between a sensor node and an Internet host. We prove that this scheme is indistinguishable against adaptive chosen ciphertext attacks under the bilinear Diffie-Hellman inversion problem and essential unforgeability against adaptive chosen messages attacks under the q -strong Diffie-Hellman problem in the random oracle model. Our scheme has the following advantages. First, it achieves confidentiality, integrity, authentication, and non-repudiation in a logical single step. Second, it allows a sensor node in an identity-based cryptography to send a message to an Internet host in a public key infrastructure. Third, it splits the signcrypt into two phases: i) offline phase; and ii) online phase. In the offline phase, most heavy computations are done without the knowledge of a message. In the online phase, only light computations are done when a message is available. Our scheme is very suitable to provide security solution for integrating WSNs into the IoT.

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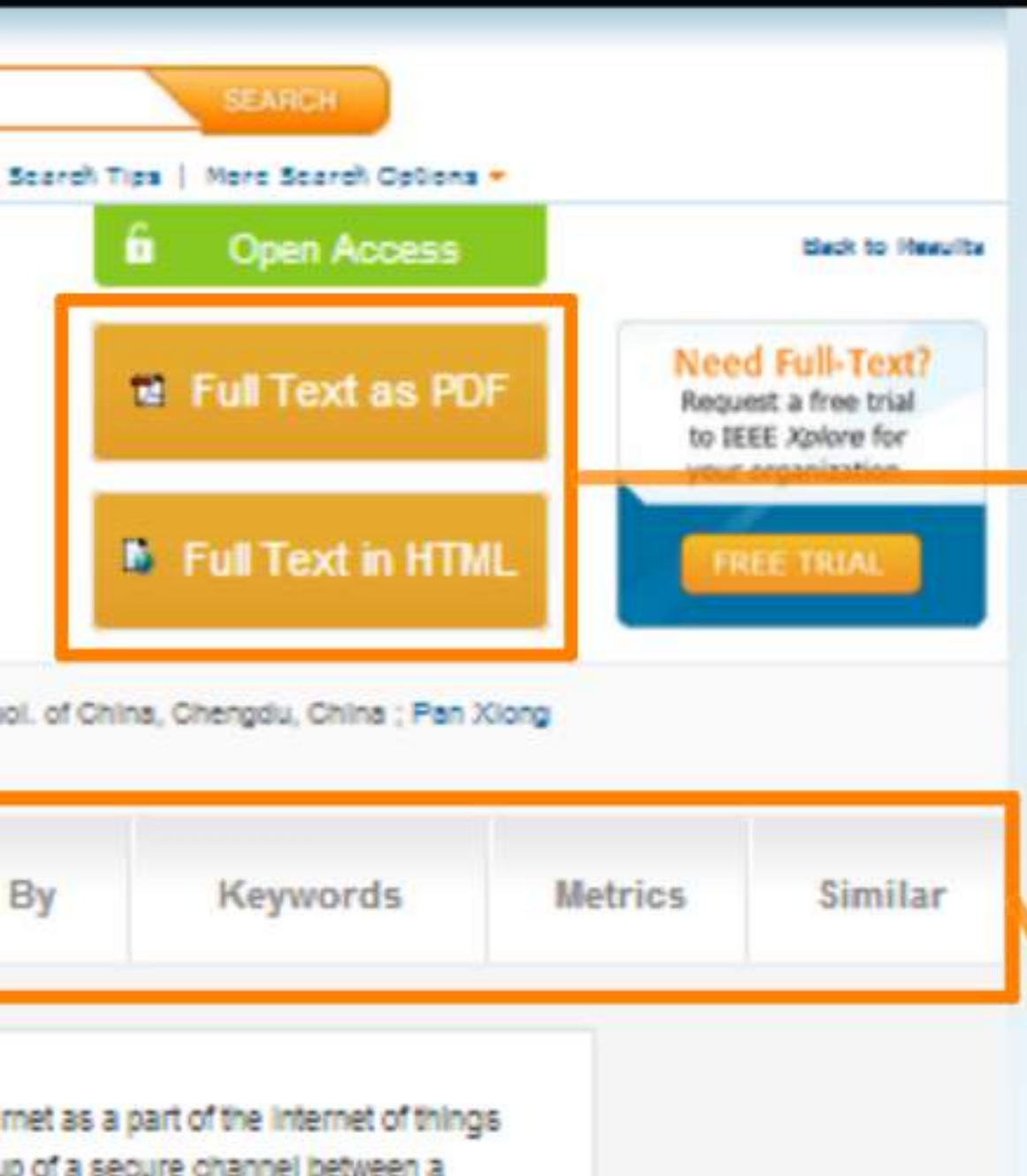
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Practical Secure Communication for Integrating Wireless Sensor Networks Into the Internet of Things

Fagen Li and Pan Xiong

Abstract—If a wireless sensor network (WSN) is integrated into the Internet as a part of the Internet of things (IoT), there will appear new security challenges, such as setup of a secure channel between a sensor node and an Internet host. In this paper, we propose a heterogeneous online and offline signcryption scheme to secure communication between a sensor node and an Internet host. We prove that this scheme is indistinguishable against adaptive chosen ciphertext attacks under the bilinear Diffie-Hellman inversion problem and existential unforgeability against adaptive chosen messages attacks under the q -strong Diffie-Hellman problem in the random oracle model. Our scheme has the following advantages. First, it achieves confidentiality, integrity, authentication, and non-repudiation in a logical single step. Second, it allows a sensor node in an identity-based cryptography to send a message to an Internet host in a public key infrastructure. Third, it splits the signcryption into two phases: i) offline phase; and ii) online phase. In the offline phase, most heavy computations are done without the knowledge of a message. In the online phase, only light computations are done when a message is available. Our scheme is very suitable to provide security solution for integrating WSN into the IoT.

Index Terms—Wireless sensor network, Internet of things, security, signcryption, public key infrastructure, identity-based

a powerful trusted device that acts as an interface between the network user and the nodes. WSNs have many applications, including military sensing and tracking, environment monitoring, target tracking, healthcare monitoring, and so on. A user of the WSNs can read the data received from the sensors through the base station. If we hope to read the data anywhere in the world, we need to integrate the WSNs into the Internet as part of the IoT. There are three methods to accomplish this integration, front-end proxy solution, gateway solution and TCP/IP overlay solution [2]. In the front-end proxy solution, the base station acts as an interface between the WSNs and the Internet. There is no direct connection between the Internet and a sensor node. The base station parses all incoming and outgoing information. In the gateway solution, the base station acts as an application layer gateway that translates the lower layer protocols from both networks. In the TCP/IP overlay solution, sensor nodes communicate with other nodes using TCP/IP. The base station acts as a router that forwards the packets from and to the sensor nodes. In both gateway solution and TCP/IP overlay solution, the



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SECTION I INTRODUCTION

JUMP

THE Internet of Things (IoT) is a novel paradigm that has received considerable attention from both academia and industry. The basic idea of IoT is the pervasive presence around us of a variety of things or objects-such as radio-frequency identification (RFID) tags, sensors, actuators, mobile phones, etc.-which, through unique addressing schemes, are able to interact with each other and cooperate with their neighbors to reach common goals [1]. Wireless sensor networks (WSNs) are ad hoc networks which usually consist of a large number of tiny sensor nodes with limited resources and one or more base stations. Usually, sensor nodes consist of a processing unit with limited computational power and limited capacity. On the other hand, the base station is a powerful trusted device that acts as an interface between the network user and the nodes. WSNs have many applications, including military sensing and tracking, environment monitoring, target tracking, healthcare monitoring, and so on. A user of the WSNs can read the data received from the sensors through the base station. If we hope to read the data anywhere in the world, we need to integrate the WSNs into the Internet as part of the IoT. There are three methods to accomplish this integration, front-end proxy solution, gateway solution and TCP/IP overlay solution [2]. In the front-end proxy solution, the base station acts as an interface between the WSNs and the Internet. There is no direct connection between the Internet and a sensor node. The base station parses all incoming and outgoing information. In the gateway solution, the base station acts as an application layer gateway that translates the lower layer protocols from both networks. In the TCP/IP overlay solution, sensor nodes communicate with other nodes using TCP/IP. The base station acts as a router that forwards the packets from and to the sensor nodes. In both gateway solution and TCP/IP overlay solution, the sensor nodes can communicate with the Internet hosts directly. However, new

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