

IEL数据库检索技巧详解



准备开始课题研究

确定研究领域

初步了解研究进展

调整检索策略

准备文献综述

阅读全文

跟踪学科进展

准备论文发表

确定检索关键词
确定领域顶尖专家、机构
确定领域核心期刊和会议

逐步缩小检索范围
利用高级检索

查看被引次数较高的文献
追溯相关文献与最新动态

关注不同类型期刊要求
利用参考文献工具管理引文

推送热点技术、权威专家和机构研究进展
推送新刊、新会议录及新标准

选择期刊
了解投稿平台与格式
准备稿件



1. 課題研究

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- Training & Tools
- IEEE Xplore Mobile

Highlights

What's Popular

Most Recent

MORE HIGHLIGHTS: || 1 2 3 4 5 6 7 8 9

Keywords:

Atomic Force Microscope
Force Sensor
Nano*



初步了解领域全貌

- ▣ 所研究技术当前的研发状况
- ▣ 相关技术标准的发展现状
- ▣ 该技术领域的领先研究机构有哪些
- ▣ 该技术领域的领先研究者有哪些
- ▣ 该技术领域的核心期刊和会议有哪些
- ▣

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Atomic Force Microsco

SEARCH

- » Atomic Force Microscope
- » Atomic Force Microscopes
- » Atomic Force Microscope (AFM)
- » Atomic Force Microscope Cantilever
- » Atomic Force Microscope Probe
- » Atomic Force Microscope Cantilevers
- » Atomic Force Microscope Images
- » Atomic Force Microscope Tip
- » Atomic Force Microscope Probes



二次聚類分析

Atomic Force Microscope SEARCH

[Advanced Search](#) | [Preferences](#) | [Search Tips](#) | [More Search Options](#) ▾

FILTER THESE RESULTS ?

Search within results:
 Search


All Results
 My Subscribed Content
 Open Access Only

▼ **CONTENT TYPE**

Journals & Magazines (2,457)
 Conference Publications (1,126)
 Early Access Articles (8)

▼ **PUBLICATION YEAR**

Single Year Range

1984  2013

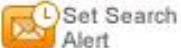

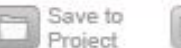



From:

SEARCH RESULTS

You searched for: **Atomic Force Microscope** 3,591 Results returned

Results per page: ▾ Sort by: ▾

Select All on Page | Deselect All < First | 1 2 3 4 5 >> Last >

Elastic deformations of tip and sample during atomic force microscope measurements

Heuberger, Manfred; Dietler, Giovanni; Schlapbach, Louis
Journal of Vacuum Science & Technology B: Microelectronics and Nanometer Structures
Volume: 14 , Issue: 2
Topic(s): Bioengineering ; Components, Circuits, Devices & Systems ; Engineered Materials, Dielectrics & Plasmas ; General Topics for Engineers (Math, Science & Engineering) ; Photonics & Electro-Optics
Digital Object Identifier: 10.1116/1.588525
Publication Year: 1996 , Page(s): 1250 - 1254
AVS JOURNALS & MAGAZINES

所在領域領先研究者

▼ AUTHOR

Search for Author

- Quate, C. F. (39)
- Fukuda, T. (32)
- Ning Xi (31)
- Sitti, M. (31)
- Nakajima, M. (25)
- Bhushan, Bharat (24)
- Hansma, P. K. (22)
- King, W.P. (17)
- Guntherodt, H. - J. (17)
- Qingze Zou (16)
- Arai, F. (15)

▼ AUTHOR

Search for Author

- Abramovitch, D.Y.

▶ AFFILIATION

▶ PUBLICATION TITLE

▶ PUBLISHER

▶ TOPIC

▶ CONFERENCE COUNTRY

▶ CONFERENCE LOCATION

Abramovitch, D.Y.
Nanotechnol. Group at Agilent Labs., Santa
Clara, CA



所在領域領先研究機構

▼ AFFILIATION

Search for Affiliation

- Department of Physics,
University of California,
Santa Barbara, California
93106 (15)
- Inst. of Ind. Sci., Tokyo
Univ. (13)
- Sch. of Electr. Eng. &
Comput. Sci., Univ. of
Newcastle, Callaghan,
NSW, Australia (11)
- Dept. of Micro-Nano
Syst. Eng., Nagoya
Univ., Nagoya, Japan
(11)
- Dept. of Mech. Eng.,
Carnegie Mellon Univ.,
Pittsburgh, PA, USA (8)
- Optical Sciences Center,
University of Arizona,
Tucson, Arizona 85721
(8)

▼ AFFILIATION

Search for Affiliation

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CA
- Agilent Lab., Santa Clara
- Agilent Technol. Japan,
Kawasaki
- Agilent Technol.,
Edinburgh
- Agilent Technol.,
Frankfurt, Germany
- Nanotechnol. Group,
Agilent Labs., Santa
Clara, CA, USA
- Nanotechnol. Group at
Agilent Labs., Santa
Clara, CA



所在領域最相關期刊和會議

▼ PUBLICATION TITLE

Search for Publication Title

- Applied Physics Letters (764)
- Journal of Applied Physics (451)
- Review of Scientific Instruments (428)
- Journal of Vacuum Science & Technology B: Microelectronics and Nanometer Structures (360)
- Journal of Vacuum Science & Technology A: Vacuum, Surfaces, and Films (135)
- Magnetism, IEEE Transactions on (43)
- Nanotechnology, IEEE Transactions on (32)
- Microelectromechanical Systems, Journal of (28)
- Micro & Nano Letters, IET (16)
- Control Systems Technology, IEEE Transactions on (13)
- Mechatronics, IEEE/ASME Transactions on (13)
- Sensors Journal, IEEE (12)

▼ PUBLICATION TITLE

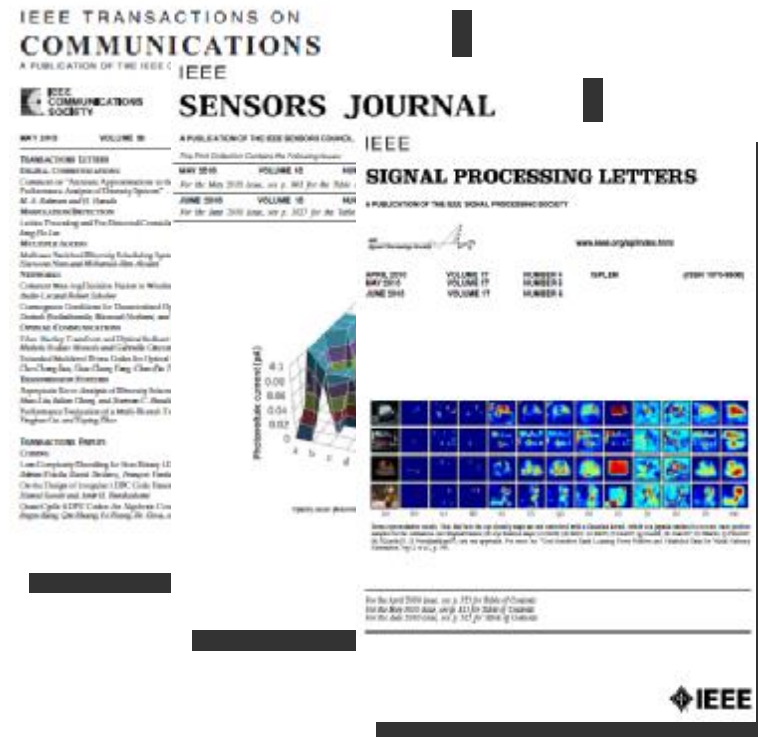
Search for Publication Title

- Nanotechnology, 2007. IEEE-NANO 2007. 7th IEEE Conference on (17)
- American Control Conference, 2008 (12)
- Nanoelectronics Conference (INEC), 2010 3rd International (11)
- Nano/Micro Engineered and Molecular Systems, 2006. NEMS '06. 1st IEEE International Conference on (10)
- Nano/Micro Engineered and Molecular Systems, 2007. NEMS '07. 2nd IEEE International Conference on (9)
- Nanotechnology (IEEE-NANO), 2012 12th IEEE Conference on (9)
- Nanotechnology, 2002. IEEE-NANO 2002. Proceedings of the 2002 2nd IEEE Conference on (7)
- Nanotechnology, 2003. IEEE-NANO 2003. 2003 Third IEEE Conference on (7)



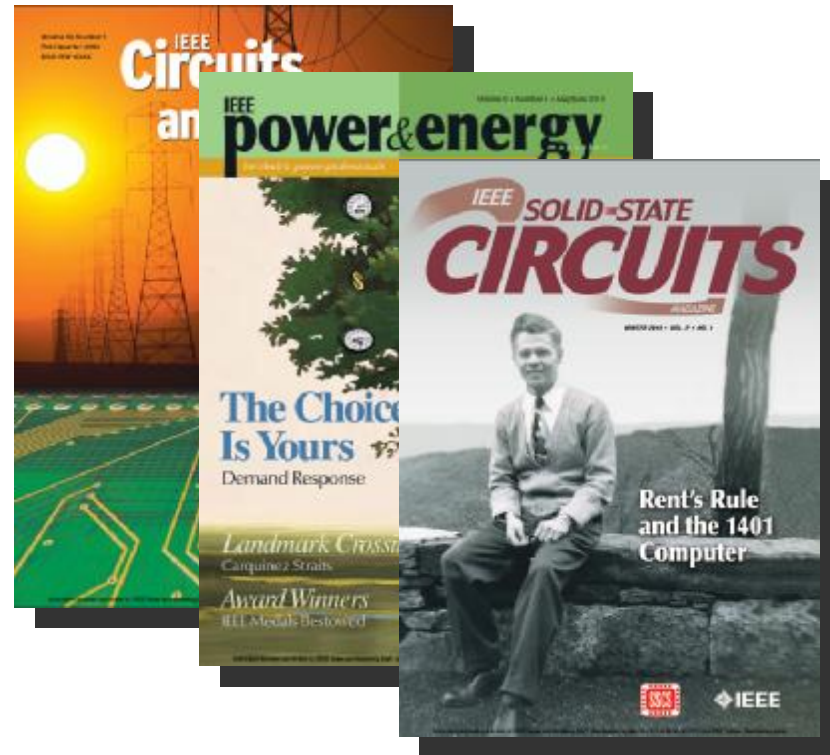
学术期刊-Journals

- Journals, Transactions, and Letters are the primary means for publishing technical papers concerning original work in IEEE fields of interest.
 - The primary purpose of Journals, Transactions, and Letters is to disclose and provide a permanent archival record of original technical work that advances the state of the art or provides novel insights.
 - Letters are for the publication of brief papers, usually three to four pages in length.



技术杂志-Magazines

- Magazines are characterized by regular and continuing issues with significant technical content in addition to general news and regular columns
 - IEEE Communications Magazine
 - IEEE Microwave Magazine
 - IEEE Signal Processing Magazine
 - IEEE Instrumentation & Measurement Magazine
 -



循序漸進 逐步優化

The image illustrates a two-step search refinement process on a database interface. The left sidebar contains filter options, and the right main area shows the search results.

Stage 1: Initial Search

- Filter:** Search within results: "force sensor" (highlighted in red).
- Search Results:** You searched for: **Atomic Force Microscope**. 3,659 Results returned.
- Results per page:** 25
- Sort by:** Relevance

Stage 2: Refined Search

- Filter:** Search within results: nano* (highlighted in red).
- Search Results:** You searched for: **Atomic Force Microscope**, "force sensor" (x). 51 Results returned.
- Results per page:** 25
- Sort by:** Relevance
- Navigation:** Select All on Page | Deselect All. Page 1 of 3 (highlighted).
- Actions:** Set Search Alert, Download Citations, Save to Project, Email Selected Results, Print, Export Results.
- Result Snippet:** Improved Calibration Method for Lateral Force of the Cantilever Deflection Force Sensor in Atomic Force Microscope.

IEEE

所在領域內最有影響力文章

The screenshot displays the IEEE Xplore search results interface. The search criteria are "Atomic Force Microscope" and "force sensor", with "nano*" as a wildcard. The results are sorted by "Most Cited" and 32 results are returned. The first result, "Atomic force microscope probe based controlled pushing for nanotribological characterization" by Sitti, M., is highlighted in yellow and has a red box around the "Cited by 43" metric. The interface includes navigation controls like "First", "1", "2", and "Last", and utility buttons such as "Set Search Alert", "Download Citations", "Save to Project", "Email Selected Results", "Print", and "Export Results".

SEARCH RESULTS

You searched for: **Atomic Force Microscope** , "force sensor" (x) , **nano*** (x)

32 Results returned

Results per page 25 (dropdown) Sort by: Most Cited (dropdown)

Select All on Page | Deselect All < First | 1 | 2 | Last >

Set Search Alert Download Citations Save to Project Email Selected Results Print Export Results

Improved Calibrated Cantilever Deflection Microscope
Fei Wang ; Xuezer
Nano/Micro Engine
'06. 1st IEEE Inter
Digital Object Identifier
Publication Year: 2
IEEE CONFERENCE

Atomic force microscope probe based controlled pushing for nanotribological characterization
Sitti, M.
Mechatronics, IEEE/ASME Transactions on
Volume: 9 , Issue: 2
Digital Object Identifier: 10.1109/TMECH.2004.828654
Publication Year: 2004 , Page(s): 343 - 349
Cited by 43
IEEE JOURNALS & MAGAZINES

In situ force calibration of atomic force microscope

Fabrication of discrete nanoscaled force sensors based on single-walled carbon nanotubes

IEEE

順藤摸瓜 獲取最相關文獻集

Citation Map ?

View All **Citation Map** ?

Viewing: C **View All References**

View All Citing Documents

REFERE

Viewing: **Teleoperated and automatic nanomanipulation systems using atomic force microscope probes**

REFERENCES

- 1- Positioning single atoms with a scanning electron microscope
- 2- [Survey of nanomanipulation systems](#)
- 3- [Toward a tele-nanorobotic manipulation system with atomic scale force feedback and motion ...](#)
- 4- Tele-nanorobotics using atomic force microscope as a robot and sensor
- 5- The nanomanipulator: A teleoperator for manipulating materials at the nanometer scale
- 6- [Teleoperated touch feedback from surfaces at the nanoscale: Modeling and experiments](#)

CITING DOCUMENTS

- 1- [Virtual reality and haptics for nanorobotics](#)
- 2- [Modeling and Control of AFM-based Nano-manipulation Systems](#)
- 3- [Atomic force microscope based two-dimensional assembly of micro/nanoparticles](#)
- 4- [Modification of the Wave Variable Technique for Teleoperation Systems Experiencing Communi...](#)
- 5- [Soft microcontact printing with force control using microbotic assembly based templates](#)
- 6- [Two-dimensional, vision-based \$\mu\$ N force sensor for microrobotics](#)



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Abstract Authors References Cited By Keywords Metrics **Similar**

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Implementation and characterization of a quartz tuning fork based probe consisted of discrete resonators for dynamic mode atomic force microscopy
Akiyama, T.; de Rooij, N.F.; Staufer, Urs; Detterbeck, Manfred; Braendlin, Dominik; Waldmeier, Simon; Scheidiger, Martin
AIP JOURNALS & MAGAZINES

A new atomic force microscope probe with force sensing integrated readout and active tip
Onaran, A.G.; Balantekin, M.; Lee, W.; Hughes, W.L.; Buchine, B.A.; Guldiken, R.O.; Parlak, Z.; Quate, C.F.; Degertekin, F.L.
AIP JOURNALS & MAGAZINES

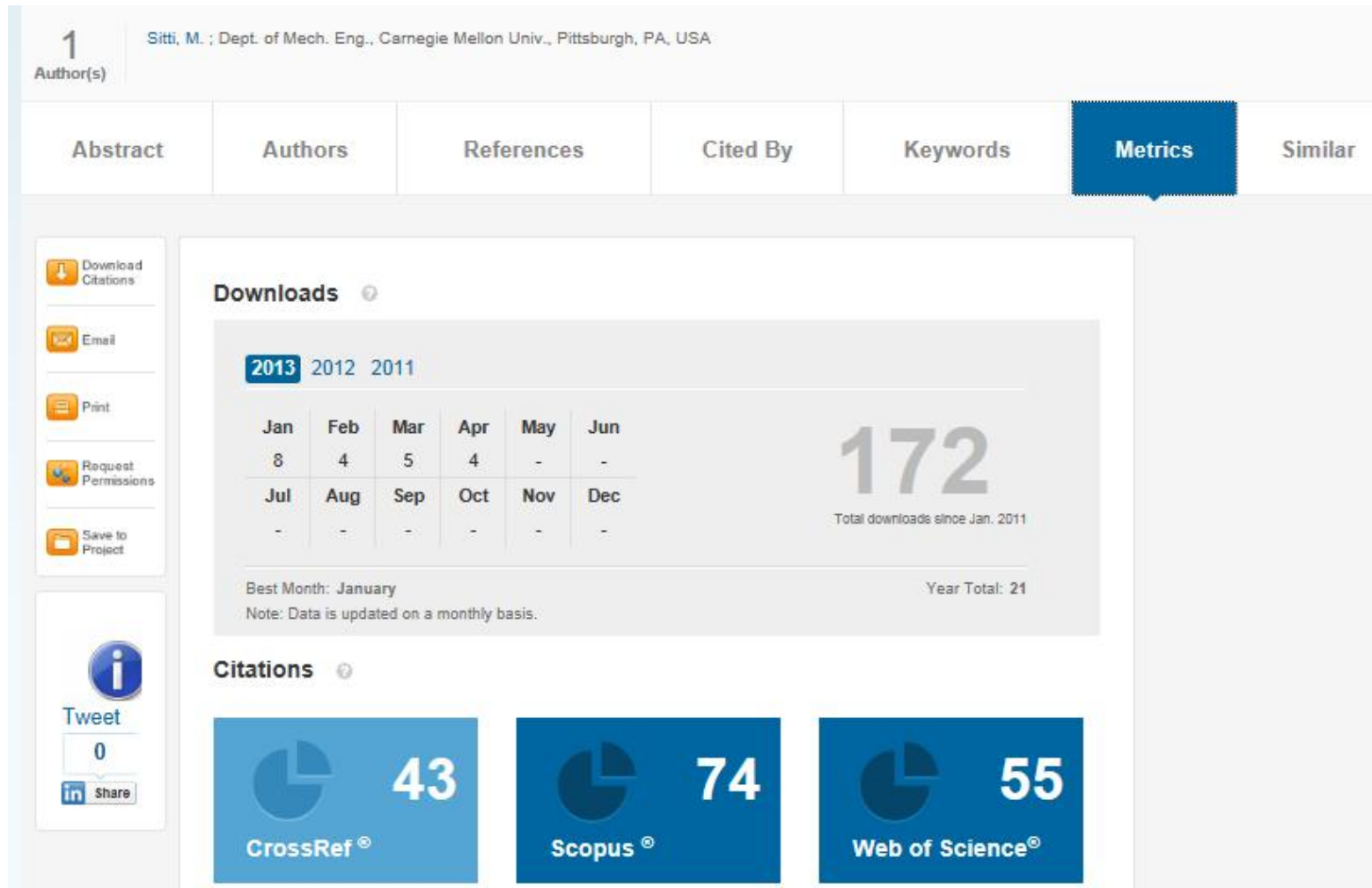
Modelling of conductive atomic force microscope probes for scanning tunnelling microscope operation
Ozcan, O.; Sitti, M.
IET JOURNALS & MAGAZINES

Novel thin membrane probe and a new twisting modulation force detection method of an atomic force microscope
Nakano, Katsushi; Suzuki, Yoshihiko
AIP JOURNALS & MAGAZINES

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深入瞭解文獻價值



查看专利对文献的引用情况

The screenshot shows a document's 'Cited By' page. The navigation tabs at the top are 'Abstract', 'Authors', 'References', 'Cited By' (highlighted in blue), 'Keywords', 'Metrics', and 'Similar'. On the left side, there is a vertical menu with icons for 'Download Citations', 'Email', 'Print', 'Request Permissions', and 'Save to Project'. The main content area displays '117 Citations' in a red-bordered box, with a sub-total of 'IEEE (3) | Patents (114)'. To the right of this box is a 'Citation Map' button. Below the citation count, the text reads 'Cited by IEEE (3)' followed by a list of citations. The first citation is: '1. Sinitsyn, A. "Duplicate Song Detection using Audio Fingerprinting for Consumer Electronics Devices", *Consumer Electronics, 2006. ISCE '06. 2006 IEEE Tenth International Symposium on*, On page(s): 1 - 6'. Below the citation list, there are links for 'Abstract' and 'Full Text: PDF (138KB)'.

Abstract Authors References **Cited By** Keywords Metrics Similar

Download Citations
Email
Print
Request Permissions
Save to Project

117 Citations
IEEE (3) | Patents (114)

Citation Map

Cited by IEEE (3)

1. Sinitsyn, A. "Duplicate Song Detection using Audio Fingerprinting for Consumer Electronics Devices", *Consumer Electronics, 2006. ISCE '06. 2006 IEEE Tenth International Symposium on*, On page(s): 1 - 6
[Abstract](#) | [Full Text: PDF \(138KB\)](#)

Links to USPTO&EPO

Cited by Patents (114)

[Back To Top](#) ▲

1. Gupta, Sandeep ; Huang, Szu-Wen ; Marriott, Greg ; Lee, Jeff , "PORTABLE ELECTRONIC DEVICE WITH LOCAL SEARCH CAPABILITIES" Patent No. 8244524

[USPTO PATENT FULL-TEXT AND IMAGE DATABASE](#)

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Search Result list My patents list (0) Query history Settings Help

United States Patent
Gupta, et al.

Portable electronic dev

Improved methods and syste
invention, a portable elec
electronic device. The sea
ranked in order of relevan
for playback. According to
assist a user in interacti

Inventors: Gupta; San

- EP1693771 (A1)
- Bibliographic data**
- Description
- Claims
- Mosaics
- Original document
- Cited documents
- Citing documents
- INPADOC legal status
- INPADOC patent family

Quick help

- What does A1, A2, A3 and B stand for after a European publication number?
- What happens if I click on "In my patents list"?
- What happens if I click on the "Register" button?
- Why are some sidebar options

Bibliographic data: EP1693771 (A1) — 2006-08-23

★ In my patents list → EP Register → Report data error

Print

Synchronization of files and pertaining metadata in a mobile environment.

Page bookmark EP1693771 (A1) - Synchronization of files and pertaining metadata in a mobile environment.

Inventor(s): RAMAN BALAN SETHU [US]; HUDIS IRENA [US]; NOVIK LEV [US]; ECHERUO OKECHUKWU C [US]; RAO RAJESH M [US]; WU YUNXIN [US] ±

Applicant(s): MICROSOFT CORP [US] ±

Classification: - international: G06F17/30

- cooperative: G06F17/30174; H04L29/0854

Application number: EP20060110221 20060221

Priority number(s): US20050063381 20050222

Also published as: US2006190506 (A1) US7720890 (B2) KR20060093672 (A) JP2006236350 (A) → JP5058495 (B2) → more

高級檢索

Advanced Search Options

Advanced Keyword/Phrases Command Search Publication Quick Search Preferences

ENTER KEYWORDS OR PHRASES, SELECT FIELDS, AND SELECT OPERATORS

Note: Refresh page to reflect updated preferences.

Search : Metadata Only Full Text & Metadata

atomic force microscope in Metadata Only

AND force sensor in Metadata Only

AND nano* in Metadata Only



深入瞭解你的競爭對手和合作者

Advanced Search Options

Advanced Search Options

Advanced Keyword/Phrases Command Search Publication Quick Search Preferences

ENTER KEYWORDS OR PHRASES, SELECT FIELDS, AND SELECT OPERATORS

Note: Refresh page to reflect updated preferences.

Search : Metadata Only Full Text & Metadata ?

"Chaoyang Univ of Technol" in Author Affiliations

OR "Chaoyang University of Technology" in Author Affiliations ↑ ×

AND in Metadata Only ↑ ×

+ Add New Line Reset All **SEARCH**



FILTER THESE RESULTS

Search within results:

AUTHOR

Search for Author

- Huang, Yung-Fa F. (2)
- Lee, Chin-Fang (22)
- Wang, Shu-Ching C. (1)
- Yan, Kuo-Qin Q. (18)
- Chang, Ben-Jye (17)
- Hsieh, Cheng-Hsiung (16)
- Chen, Rung-Ching (1)
- Chen, Chin-Ling (12)
- Chang, Chin-Chen Ch (11)

SEARCH RESULTS

You searched for: **(("Author Affiliations": "Chaoyang Univ of**

AFFILIATION

Search for Affiliation

- Dept. of Inf. Manage.,
Chaoyang Univ. of
Technol., Taichung,
Taiwan (51)
- Dept. of Comput. Sci. &
Inf. Eng., Chaoyang
Univ. of Technol.,
Taichung, Taiwan (49)
- Dept. of Inf. & Commun.
Eng., Chaoyang Univ. of
Technol., Taichung,
Taiwan (36)
- Chaoyang Univ. of
Technol., Taichung (33)

PUBLICATION TITLE

Search for Publication Title

- Vehicular Technology,
IEEE Transactions on (6)
- Electronics Letters (6)
- Consumer Electronics,
IEEE Transactions on (5)
- Knowledge and Data
Engineering, IEEE
Transactions on (3)
- Circuits and Systems I:
Regular Papers, IEEE
Transactions on (3)
- Biomedical Engineering,
IEEE Transactions on (2)
- Semiconductor
Manufacturing, IEEE
Transactions on (2)

作者檢索

The screenshot displays a search engine interface with the following components:

- Search Bar:** Contains the text "Ming-Dong" in the first field, "Middle Name" in the second, and "Ker" in the third. A "SEARCH" button is to the right.
- Navigation:** Links for "Basic Search", "Advanced Search", "Preferences", "Search Tips", and "More Search Options".
- Filter Panel (Left):**
 - "FILTER THESE RESULTS" header.
 - "Search within results:" input field with a "Search" button.
 - Radio buttons for "All Results" (selected) and "Open Access Only".
 - Section "CONTENT TYPE".
 - Section "PUBLICATION YEAR".
 - Section "AUTHOR" with a "Search for Author" input field and a list of authors:
 - Ker, Ming-Dong Dou (335)
 - Chen, Tung-Yang (27)
 - Wu, Chung-Yu Allen H (24)
 - Yen, Cheng-Cheng (22)

- Search Results (Right):**
- Header "SEARCH RESULTS".
- Text: "You searched for: 'First Name':Ming-Dong (x) 'Last Name':Ker (x)" and "335 Results returned".
- Controls: "Results per page" set to 25, "Sort by" set to Relevance.
- Page navigation: "Select All on Page | Deselect All" and a page number selector showing page 1 of 5.
- Action icons: "Set Search Alert", "Download Citations", "Save to Project", "Email Selected Results", "Print", and "Export Results".
- Result entry:
 - Title: "ESD Protection Design for CMOS Integrated Circuits with Mixed-Voltage I/O Interfaces" (with a lock icon).
 - Authors: "Wei-Jen Chang ; Ming-Dou Ker".
 - Details: "Research in Microelectronics and Electronics 2006, Ph. D. Digital Object Identifier: 10.1109/RME.2006.1689957 Publication Year: 2006 , Page(s): 305 - 308 Cited by 1".
 - Category: "IEEE CONFERENCE PUBLICATIONS".
 - Actions: "Quick Abstract" and "PDF (389 KB)".

命令检索

Advanced Search Options

Advanced Keyword/Phrases **Command Search** Publication Quick Search Preferences ?

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 [» Learn more about metadata](#)

Data Fields Operators

- AND
- OR
- NOT
- NEAR**
- ONEAR

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 **SEARCH**

Command Search

Command 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*

Data Fields	Operators
Index Terms Only	Inspec Terms
Abstract	ISBN
Accession Number	ISSN
Article Number	Issue
Author Affiliation	Mesh Terms
Author Terms	PACS Terms
Authors	Parent Publication Number
Document Title	Publication Number
DOE Terms	Publication Title
DOI	Standard Number
EISBN	
Free Terms	

Command Search - Full text

全文范围内检索

Advanced Search Options

Advanced Keyword/Phrases **Command Search** Publication Quick Search Preferences ?

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 [» Learn more about metadata](#)

Data Fields ▼ Operators ▼

(MIIS NEAR/7 "Information Server") OR ("Media Independent Information Service" NEAR/7 "Information Server") AND MIH

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 **SEARCH**

Command Search – proximity operator

FILTER THESE RESULTS ?

Search within results:

Only show full text results included in my subscription

CONTENT TYPE

- Conference Publications (25)
- Journals & Magazines (4)

PUBLICATION YEAR

Single Year Range

2006 | | | |

From: To:

SEARCH RESULTS

You searched for: **((MIIS NEAR/7 "Information Server") OR ("Media Independent Information Service" NEAR/7 "Information Server")) AND MIH)**

29 Results returned

Results per page: 25 Sort by: Relevance

1 2 Last »

INCLUDED WITH YOUR SUBSCRIPTION

IEEE CONFERENCE PUBLICATIONS

[Quick Abstract](#) | [PDF \(1945 KB\)](#)

(BPF) language [13]. This enables the MIHF module to efficiently specify the messages it is interested in. In the current version of the prototype we use UDP for L3 communication. IEEE 802.21 also allows the use of media-specific control messaging, such as Wi-Fi beacons. This is not implemented in our prototype as it requires driver modifications. **MIIS queries to the information server** are executed at L3 using UDP sockets and all MIIS messages are encoded in TLV or XML.

IEEE 802.21 does not prescribe how internal messages need to be encoded, but specifies their high-level content. We opted to stick with the TLV encoding for internal messages, similar

Limitation

- **optimiz* NEAR/3 monitor- invalid**
 - As there is automatic stemming within IEEE Xplore, “optimize” will return “optimize”, “optimizes”, “optimized” and “optimizing”. It will also retrieve British spelling variations (“optimize” picks up optimise, “optimises”, etc.).
- **(computer or PC) NEAR/3 monitor- invalid**
 - the limit is one term or a phrase in quotation marks on either side of the NEAR operator
 - (computer NEAR/3 monitor) OR (PC NEAR/3 monitor)



Wildcard

- Use * as truncation – Fiber*
- Max 5 * wildcards per search- but you can use an additional one via “Search Within Results”
- “fiber*”- **invalid**

Limitation

- Max 15 terms in Global Search and Advanced Search
- The words within phrases are counted separately
- You may use an additional terms via “Search Within Results”

阅读更高效

The screenshot displays the IEEE Xplore Digital Library interface. At the top, there is a search bar and navigation links. The main content area shows a search result for a paper titled "The Surface Water and Ocean Topography Mission: Observing Terrestrial Surface Water and Oceanic Submesoscale Eddies". The abstract is visible, along with a "Download PDF" button. On the left side, there is a sidebar with a "Results per page" dropdown, a "Select All on Page" button, and a "Set Search Alert" button. Below these, there is a list of search results, with the first one highlighted. The highlighted result is for a paper titled "An Analytical Assessment of the Reliability of Volume: 60 of Computing Materials, Fields, Wave Engineers (Optics ; Signal Digital Object Publication Cited by 1 IEEE JOURNAL)". The main content area also shows a "SECTION 1 Introduction" section with a "Download PDF" button. On the right side, there is a vertical list of navigation buttons: "Quick Preview", "Figures", "Full Text", "References", "References", "Authors", "Cited by", "Keywords", and "Comments".



Figures, Images, Tables

QUICK PREVIEW Abstract Authors **Figures** Multimedia References Cited By Keywords Back

View All

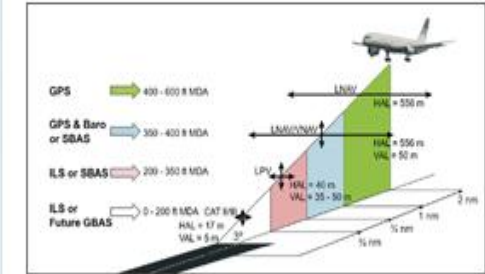



Fig. 1.

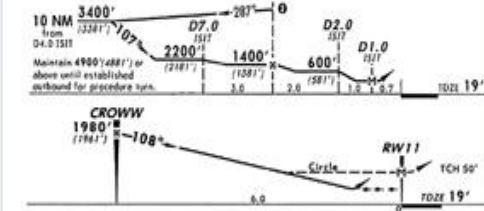


Fig. 2.




Fig. 3.

Reference Preview on Mouseover

For aircraft navigation, fault detection and isolation is paramount. Faults that may cause HMI must be noticed and mitigated in real-time. The operation of GPS has been very reliable and clearly reflects the extraordinary skill of the Air Force personnel that operate and maintain GPS. However, faults have occurred. Some are man-made and others are due to Mother Nature.

For example, the navigation data broadcast by the GPS satellites occasionally contain significant errors. As shown in Fig. 3, the GPS satellites are monitored by a relatively sparse ground control network (five stations are shown in Fig. 3 but eight new stations have been recently added [5]). Measurements at the ground stations are used to predict the orbit of the GPS satellites. These predictions are uploaded to the satellite and broadcast to the users. Generally, this estimated orbit is within 1 or 2 m of the true orbit [6]. However, the broadcast

6. Broadcast vs. precise GPS ephemerides: A historical perspective

D. L. M. Warren, J. F. Raquet

GPS Solutions, Vol. 7, issue (3), 2003-12

▶ View All References ▶ Full Text: PDF



> Quick Preview

> Figures 

< Full Text

∨ Footnotes

∨ References

∨ Authors

∨ Cited By

∨ Keywords

∨ Corrections



Access to Math TeX Source

made longer for these architectures as the ground monitoring is no longer responsible for meeting the 6.2 s TTA on its own.

Continuity requires that the above requirements be met continuously for the duration of the approach. Given that the above requirements are met at the initiation of the approach, the probability that one of them will be exceeded must be at or below 8×10^{-6} per 15 second interval [18], [24].

Availability is the fraction of time that all above requirements are met. For the system to be useful, it must be available at least 99% of the time at any location where LPV-200 service is authorized [18], [24]. For scheduled service, it may need to be available for even greater percentages of time (between 99.9% and 99.999%).

All of the architectures considered for this paper rely on dual frequency ranging measurements. The L1 and L5 signals are combined in a way to eliminate the first-order ionospheric delay [25]. Unfortunately, this combination increases the impact of measurement noise and multipath. The measurement noise term for the j th satellite can be described as normally distributed with zero mean and variance

$$\sigma_{j,DF_air}^2 = \left(\frac{f_1^2}{f_1^2 - f_5^2} \right)^2 \sigma_{L1,j,air}^2 + \left(\frac{f_5^2}{f_1^2 - f_5^2} \right)^2 \sigma_{L5,j,air}^2 \quad (1)$$



▼ TeX Source

```
$$\sigma_{j, \{\rm DF\}}_{\{\rm air\}}^2 = \left( \frac{f_1^2}{f_1^2 - f_5^2} \right)^2 \sigma_{\{\rm L1\}, j, \{\rm air\}}^2 + \left( \frac{f_5^2}{f_1^2 - f_5^2} \right)^2 \sigma_{\{\rm L5\}, j, \{\rm air\}}^2 \quad \text{\eqno{\hbox{(1)}}}$$
```

> Quick Preview

> Figures

< Full Text

▼ Footnotes

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▼ Authors

▼ Cited By

▼ Keywords

▼ Corrections



2. 跟踪权威专家/机构/领域，获取最新科研动态

SEARCH RESULTS

You searched for: **(((Radar Imaging) OR Radar Mapping) OR Satellite imagery) OR High Resolution Imagery), ISAR imag***

Results per page:

Select All on Page:

SEARCH RESULTS

You searched for: **M.)**

Advanced Search

Enter keywords or phrases, select fields, and select operators

Note: Refresh page to reflect updated preferences.

Search : Metadata Only Full Text & Metadata

in

AND in

AND in

个性化功能-设置个人帐号

The screenshot displays the IEEE Xplore Digital Library interface. At the top, the logo for IEEE Xplore Digital Library is shown, along with the tagline "Delivering full text access to the world's highest quality technical literature in engineering and technology". The IEEE logo is also present in the top right corner. A navigation bar includes "BROWSE", "MY SETTINGS", "CART", "SIGN OUT", and "Feedback ? Help".

The main content area features a section titled "Sign In for Access and Additional Features" with the text: "You are already signed in through your institutional subscription for access to full text. Sign in to take advantage of your personalization options or access content available through your IEEE membership." Below this, a section titled "Benefits of Using your IEEE Membership or Personal Account" lists several advantages:

- Create or update preferences and saved searches
- Create or update alerts
- Access previously purchased content not in your institution's subscription
- Access content available through your individual IEEE membership

A button labeled "Register Now for a Free IEEE Personal Account" is visible. On the right side, a "SIGN IN" form is highlighted with a red border, containing fields for "Username" and "Password", a "Sign In" button, and links for "Forgot Username/Password?" and "Register". Below the sign-in form, a section titled "BROUGHT TO YOU BY" lists "IEEE Sales and Marketing Staff". The IEEE logo is also present at the bottom right of the page.

所有用户需要设置个人帐号以保存ToC Alerts, Saved search 和设置Preference

注: IEEE会员可以会员帐号登录

Preferences ?

Search Options

Search History Recording:

On
 Off

Publisher:

All Content
 IEEE Content
 IET Content
 AIP Content
 AVS Content
 IBM Content
 VDE Content
 TUP Content
 BIAI Content

Search:

Metadata Only
 Full Text & Metadata

Display Options for Search Results

Results Layout:

Title Only
 Title & Citation (Default)
 Title, Citation & Abstract

Results per Page:

Sort By:

Download Options

Bibliographic Citation Format Include:

Citation Only
 Citation & Abstract

Format:

Plain Text
 BibTeX
 RefWorks
 EndNote, ProCite, RefMan

Email Setting Options

Email Address:

This will only be used for receiving e-mail alerts from IEEE Xplore. Changing this will not affect the e-mail address associated with your IEEE Account.

Email Format:

Plain Text
 HTML

Please Note: These preferences will only be applied when signed into IEEE Xplore with your personal username and password. The option to restrict results to a selected publisher does not apply to all search interfaces. Find out more.



查看检索历史



SEARCH RESULTS

You searched for: "Start Page":28 , "Authors":Moore (x) ,
"Publication Year":2012 (x)

1 Results returned

Set Search Alert | Download Citations | Email Selected Results | Print | Export Results

Top tech 2012 INCLUDED WITH YOUR SUBSCRIPTION

Ross, P.E.; Moore, S.K.
[Spectrum, IEEE](#)
Volume: 49 , [Issue: 1](#)
Digital Object Identifier: [10.1109/MSPEC.2012.6117829](#)
Publication Year: 2012 , Page(s): 28 - 29
IEEE JOURNALS & MAGAZINES

[Quick Abstract](#) | [PDF \(1124 KB\)](#)

SEARCH HISTORY BETA

NEW! Search History BETA is now available using your personal IEEE account.

STANDARDS DICTIONARY TERMS (What's this?)

[Browse Standards Dictionary](#)



组合检索历史

Search History ^{BETA}

IEEE is p
feedback
checkbox: release this beta version of search history. Submit comments or
our [feedback form](#). Combine searches by selecting at least two

AND
AND
OR
NOT

Search History Recording: **ON**
(Modify settings in your preferences)

SEARCH HISTORY TIPS

Only the most recent 50 searches are displayed
Searches including "NEAR" or "ONEAR" operators cannot be combined
50 Keyword limit for combined searches
5 Wildcard limit for combined searches
Saved search alerts are not available for combined searches

#	Search Query	Details
<input checked="" type="checkbox"/> 45	AND ((headset) OR headphone)	7251 Metadata + Full Text Aug. 10, 2012 14:11 UTC
<input checked="" type="checkbox"/> 44	START (((reduc*) OR cancel*) AND noise)	51829 Metadata Aug. 10, 2012 14:11 UTC
<input type="checkbox"/> 43	(((classif*) OR categor*) AND music)	3523 Metadata Aug. 10, 2012 14:10 UTC

44 AND 45

Keywords: 5 Wildcards: 2

COMBINE



个性化功能-Save Search

SEARCH RES

You searched for
Satellite imagery

Results per page

Select All on Page

Set Search Alert

Phase I: Radar Imaging for Intelligence
Pritt, I
Geosc
Volum
Digita
Public
Cited by 81

SAVED SEARCH

Address shown is from information saved in your preferences.

Saved Search Name *:

Query: You searched for: (((((Radar Imaging) OR Radar Mapping) OR Satellite imagery) OR High Resolution Imagery) , ISAR imag*

Email Address: qing-li@ieee.org

SET ALERT

You will receive email alerts whenever new content that matches your saved search is added to IEEE Xplore. If you don't wish to receive such email alerts, please uncheck this box.

个性化功能-查看Saved Searches

The screenshot shows a user interface with a navigation bar at the top. The navigation bar includes 'BROWSE', 'MY SETTINGS', 'CART', and 'SIGN OUT'. The 'MY SETTINGS' dropdown menu is open, showing 'Alerts' and 'Purchase History'. Below the navigation bar, there is a 'Saved Searches' section. A red box highlights the search list, which contains five entries. Each entry includes a search ID, a search title, a description of the search criteria, and action buttons (RSS, Rename, Delete, Disable Alert).

Search ID	Search Title	Description	RSS	Rename	Delete	Disable Alert
1	radar-imaging	You Searched For "((((Radar Imaging) OR Radar Mapping) OR Satellite imagery) OR High Resolution Imagery)" You refined by " ISAR imag* "	RSS	Rename	Delete	Disable Alert
2	inst of remote sensing-CAS	You Searched For "(("Author Affiliation":chinese acad* of sci*) AND "Author Affiliation":inst* of remote sensing)"	RSS	Rename	Delete	Disable Alert
3	remote sensing-disaster	You Searched For "remote sensing" You refined by " Disaster Monitoring Content Type[Journals & Magazines] "	RSS	Rename	Delete	Disable Alert
4	IBM	You Searched For "(("Author Affiliation":ibm)"	RSS	Rename	Delete	Disable Alert
5	samsung	You Searched For "(("Author	---	-	-	-

个性化功能-设置ToC Alerts

BROWSE **MY SETTINGS** **CART**

Table of Contents Alerts

Manage your research quickly and efficiently with convenient Table of Contents Alerts. You will receive an email when a new journal or magazine issue in your area of interest has been posted online

Alerts will be sent to "qing-li@ieee.org" in "Html" format. These settings can be updated within the Preferences feature.

Journals & Magazines Conferences Standards By Version

Table of Contents Alerts Set: 0

Select/Deselect All Reset Update

- [Advanced Packaging, IEEE Transactions on](#)
Most Recent Issue Issues Per Year : 2
- [Aerospace and Electronic Systems Magazine, IEEE](#)
Most Recent Issue Issues Per Year : 12
- [Aerospace and Electronic Systems, IEEE Transactions on](#)
Most Recent Issue Issues Per Year : 4

个性化功能-My Projects

The screenshot displays the IEEE Xplore My Projects interface. At the top, the navigation bar includes 'BROWSE', 'MY SETTINGS', and 'MY PROJECTS' (highlighted with a red box). The main content area shows search results for 'radar imaging' with 22,222 results returned. Below the search bar, there are controls for 'Results per page' (set to 25) and 'Sort by' (set to Relevance). A pagination bar shows 'Page 1 of 5' with 'First', 'Last', and numbered links. A toolbar contains icons for 'Set Search Alert', 'Download Citations', 'Save to Project' (highlighted with a red box), 'Email Selected Results', 'Print', and 'Export Results'. The search results list includes:

- Wide-angle radar imaging using time-frequency distributions** (Included with your subscription)
Lanterman, A.D.; Munson, D.C., Jr.; Wu, Y.
Radar, Sonar and Navigation, IEE Proceedings - Volume: 150 , Issue: 4
Digital Object Identifier: 10.1049/ip-rsn:20030712
Publication Year: 2003
Cited by 1
IET JOURNALS & MAGAZINES
Quick Abstract | PDF (475 KB)
- A Through-Dielectric Radar Imaging System** (Included with your subscription)
Charvat, G.L.; Kempel, L.C.; Rothwell, E.J.; Coleman, C.M.; Mokole, E.L.

On the left sidebar, 'My Projects (3 Projects)' is shown with folders for 'Radar Imaging' (0 Documents), 'Cloud Computing' (7 Documents), and 'RFID' (0 Documents).

12/2/2013

3.IEEE标准- Standards

标准是什么？

一项公开发布的文档，它对于确保一种材料、产品、方法或者服务能达到其运用的目的并保持一致性进行了规范说明和流程设计。

-----IEEE-SA Website

精简组织效率，达到成果共享，推动产品和服务的应用



检索IEEE标准

FILTER THESE RESULTS ?

Search within results:

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 Open Access Only

CONTENT TYPE

- Conference Publications (117,457)
- Journals & Magazines (17,884)
- Early Access Articles (542)
- Books & eBooks (346)
- Education & Learning (31)

PUBLICATION YEAR

Single Year Range

1997 2013

From:

SEARCH RESULTS

You searched for: **wireless network**
You Refined by:
Content Type: **Standards** (x)

413 Results returned

Results per page: Sort by:

Select All on Page | Deselect All * First | 1 2 3 4 5 >> Last >

Set Search Alert Download Citations Save to Project Email Selected Results Print Export Results

IEEE Standard for Architectural Building Blocks Enabling Network-Device Distributed Decision Making for Optimized Radio Resource Usage in Heterogeneous Wireless Access Networks

IEEE Std 1900.4-2009
Digital Object Identifier: 10.1109/IEEESTD.2009.4798288
Publication Year: 2009 , Page(s): C1 - 119
IEEE STANDARDS
 Quick Abstract | PDF (1218 KB)

IEEE Standard for Information technology-- Local and metropolitan area networks-- Specific requirements-- Part 11: Wireless LAN Medium

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SEARCH HISTORY

Search History is available using your personal IEEE account.

STANDARDS DICTIONARY TERMS (What's this?)

phy
mac
sap
rf
llc



[Browse Standards Dictionary](#)

标准状态

▶ AFFILIATION
▶ PUBLICATION TITLE
▶ PUBLISHER
▼ STANDARD STATUS
<input type="checkbox"/> Active (51)
<input type="checkbox"/> Active Approved Draft (22)
<input type="checkbox"/> Active Unapproved Draft (119)
<input type="checkbox"/> Archived (43)
<input type="checkbox"/> Archived Approved Draft (21)
<input type="checkbox"/> Archived Draft (11)
<input type="checkbox"/> Archived Unapproved Draft (117)
<input type="checkbox"/> Draft (1)
<input type="checkbox"/> Redline (3)
<input type="checkbox"/> Withdrawn (1)
<input type="checkbox"/> Withdrawn Draft (2)

Publication Year: 2011 , Page(s): 1 - 433

IEEE STANDARDS

 |  ▶ Quick Abstract |  PDF (7376 KB)


- IEEE Draft Standard for Information Technology-Telecommunications and information exchange between systems-Local and Metropolitan networks-Specific requirements-Part II: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications-Amendment 8: IEEE 802.11 Wireless Network Management**



IEEE P802.11v/D15.0, September 2010

Publication Year: 2010 , Page(s): 1 - 428

IEEE STANDARDS

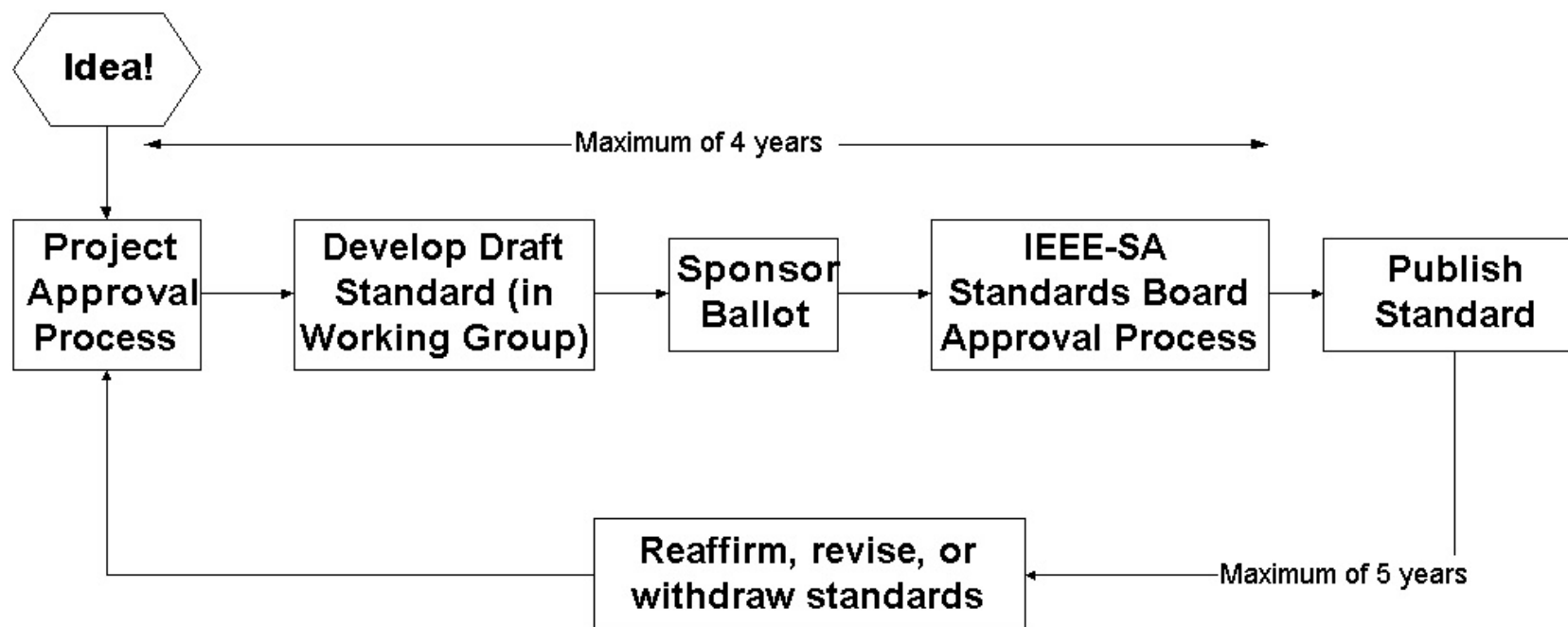
 |  ▶ Quick Abstract |  PDF (2605 KB)

- IEEE Draft Standard for Information Technology-Telecommunications and information exchange between systems-Local and Metropolitan networks-Specific requirements-Part II: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) specifications-Amendment 8: IEEE 802.11 Wireless Network Management**



E

IEEE 标准开发流程



- Draft: 还没有被批准为标准的项目;
- Active: 要求周期性维护的已批准的标准;
- Archived: 已经存档的标准,
- Withdrawn: 不再维护的标准, 可包含过时或者错误信息



IEEE Online Standards Dictionary

Browse Standards Dictionary

By Alphabet

By Standards/Technology

? Page 1

BROWSE ALPHABETICALLY:

A B C D E F G H I J K L M
N O P Q R S T U V W X Y Z
Other

OR... BROWSE BY KEYWORDS:

Enter keywords or a unique phrase to find standards titles.

BROWSE

3 Results Returned for 'smart transducer'

■ smart transducer

A transducer that provides functions beyond those necessary for generating a correct representation of a sensed or controlled quantity. This functionality typically simplifies the integration of the transducer into applications in a networked environment.

FOUND IN

[IEEE Std 1451.5-2007](#)

[IEEE Standard for a Smart Transducer Interface for Sensors and Actuato...](#) | [View Definitions](#)

[IEEE Std 1451.0-2007](#)

[IEEE Standard for a Smart Transducer Interface for Sensors and Actuato...](#) | [View Definitions](#)

[IEEE Std 1451.3-2003](#)

[IEEE Standard for a Smart Transducer Interface for Sensors and Actuato...](#) | [View Definitions](#)

[IEEE Std 1451.2-1997](#)

[IEEE Standard for a Smart Transducer Interface for Sensors and Actuato...](#) | [View Definitions](#)

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Searching with IEEE <i>Xplore</i>	4:32 min.	Browsing Standards	2:34 min.
Tutorials: ENGLISH		Tutorials: ENGLISH	
Working with Results	3:27 min.	Saving Searches	2:37 min.
Tutorials: ENGLISH		Tutorials: ENGLISH	
Expanded Abstract	3:43 min.	Personalization in IEEE <i>Xplore</i>	4:26 min.
Tutorials: ENGLISH		Tutorials: ENGLISH	
Browsing Journals and Magazines	5:10 min.	Advanced Searching	3:32 min.
Tutorials: ENGLISH		Tutorials: ENGLISH	
Browsing Conference Publications	3:07 min.	Command Search	4:19 min.
Tutorials: ENGLISH		Tutorials: ENGLISH	



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