Today's IEEE: Career, Content & Networking

李箐
IEEE中国区资讯经理
2014年

目录

- IEEE Xplore高效检索新功能
- IEEE期刊投稿流程和注意事项
- IEEE会议投稿流程和注意事项

- IEEE会员及高级会员申请流程与权益
- IEEE奖学金、助学金以及国际旅行资金介绍

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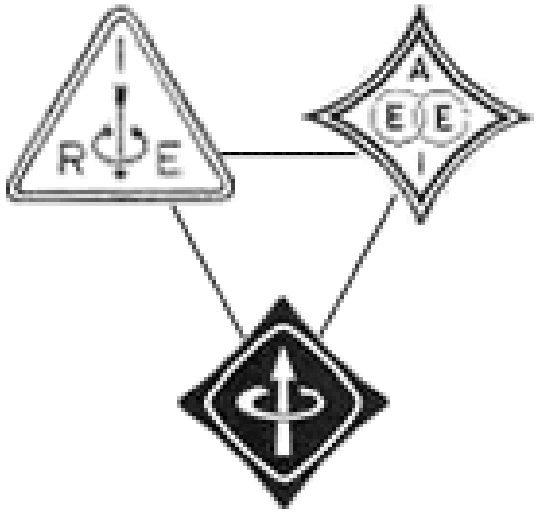

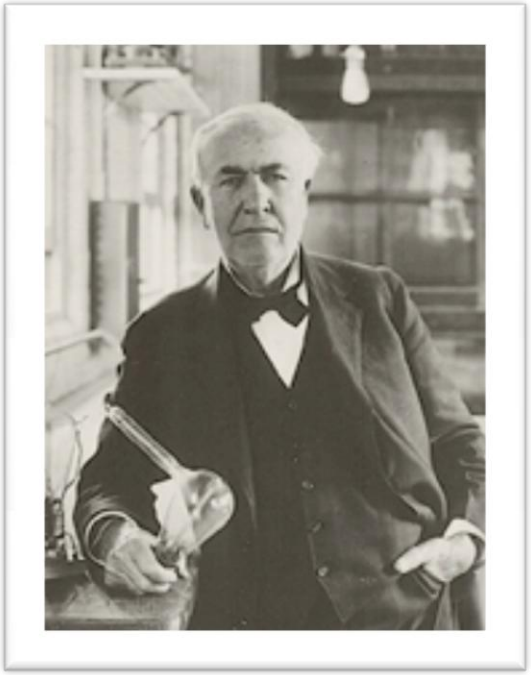

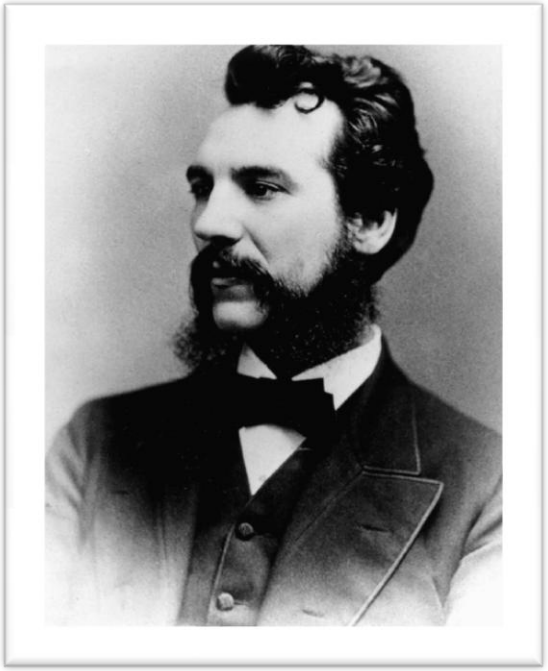

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你注意到IEEE吗？

IEEE Volunteer Activities

- 非盈利组织，全球最大的技术行业协会，成员遍布160多个国家地区，会员超过40万人
  - 38 个技术协会和7个技术委员会
  - 329 个地方分会
    - 1860 专业技术委员会
    - 80个国家的2000多个学生分会
- 每年在全球范围内举办1000多场会议
- 出版世界电气电子工程和计算机领域30％的文献
- 提供1000多个现行的产业标准，及500个正在制定的标准

IEEE

IEEE Societies

- IEEE Instrumentation and Measurement Society
- IEEE Intelligent Transportation Systems Society
- IEEE Magnetics Society
- IEEE Microwave Theory and Techniques Society
- IEEE Nuclear and Plasma Sciences Society
- IEEE Oceanic Engineering Society
- IEEE Photonics Society
- IEEE Power Electronics Society
- IEEE Power and Energy Society
- IEEE Product Safety Engineering Society
- IEEE Professional Communications Society
- IEEE Reliability Society
- IEEE Robotics and Automation Society
- IEEE Signal Processing Society
- IEEE Society on Social Implications of Technology
- IEEE Solid-State Circuits Society
- IEEE Systems, Man, and Cybernetics Society
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
- IEEE Vehicular Technology Society
- IEEE Aerospace and Electronic Systems Society
- IEEE Antennas and Propagation Society
- IEEE Broadcast Technology Society
- IEEE Circuits and Systems Society
- IEEE Communications Society
- IEEE Components, Packaging, and Manufacturing Technology Society
- IEEE Computational Intelligence Society
- IEEE Computer Society
- IEEE Consumer Electronics Society
- IEEE Control Systems Society
- IEEE Dielectrics and Electrical Insulation Society
- IEEE Education Society
- IEEE Electron Devices Society
- IEEE Electromagnetic Compatibility Society
- IEEE Engineering in Medicine and Biology Society
- IEEE Geoscience and Remote Sensing Society
- IEEE Industrial Electronics Society
- IEEE Industry Applications Society
- IEEE Information Theory Society

IEEE Xplore Helps Innovation

IEEE

IEEE 内容覆盖所有前沿科技领域

More than just electrical engineering & computer science

renewable energy

AEROSPACE

communications

SMART GRIDS

optics

INFORMATION TECHNOLOGY

IMAGING

semiconductors

biomedical engineering

CIRCUITS

electronics

nanotechnology

COMPUTING

wireless

broadband

IEEE

IEEE Xplore全文数据库

- 3百多万篇全文文档
- 170+ IEEE 期刊和杂志
- 1300+ IEEE会议录（每年）
- 2000+ IEEE标准 （标准草案除外）
- 20+ IET期刊和杂志
- 20+ IET会议录（每年）
- 20+ VDE会议录（每年）
- 完整文档回溯到1988，最早到1872
- 600+ IEEE-Wiley 电子书
- 400+ MIT电子书
- IBM Journal of Research & Development (including IBM Systems Journal)
- Five AIP/AVS 期刊
- 300+ 电子学习课件

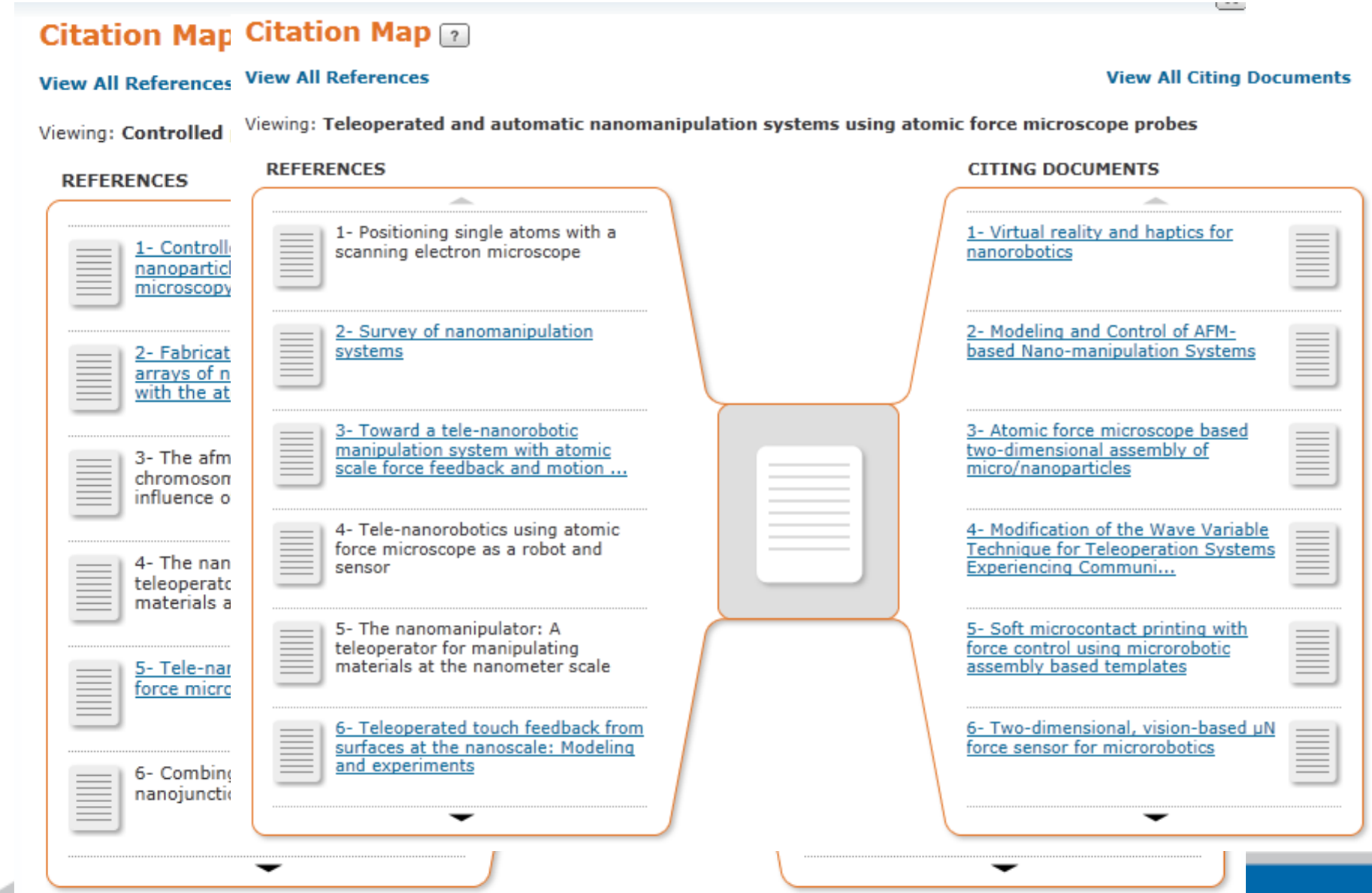
问题 1

- 如何能更快地追踪相关研究论文?

Identify An Influential Paper

Track Relevant Papers

Citation Map



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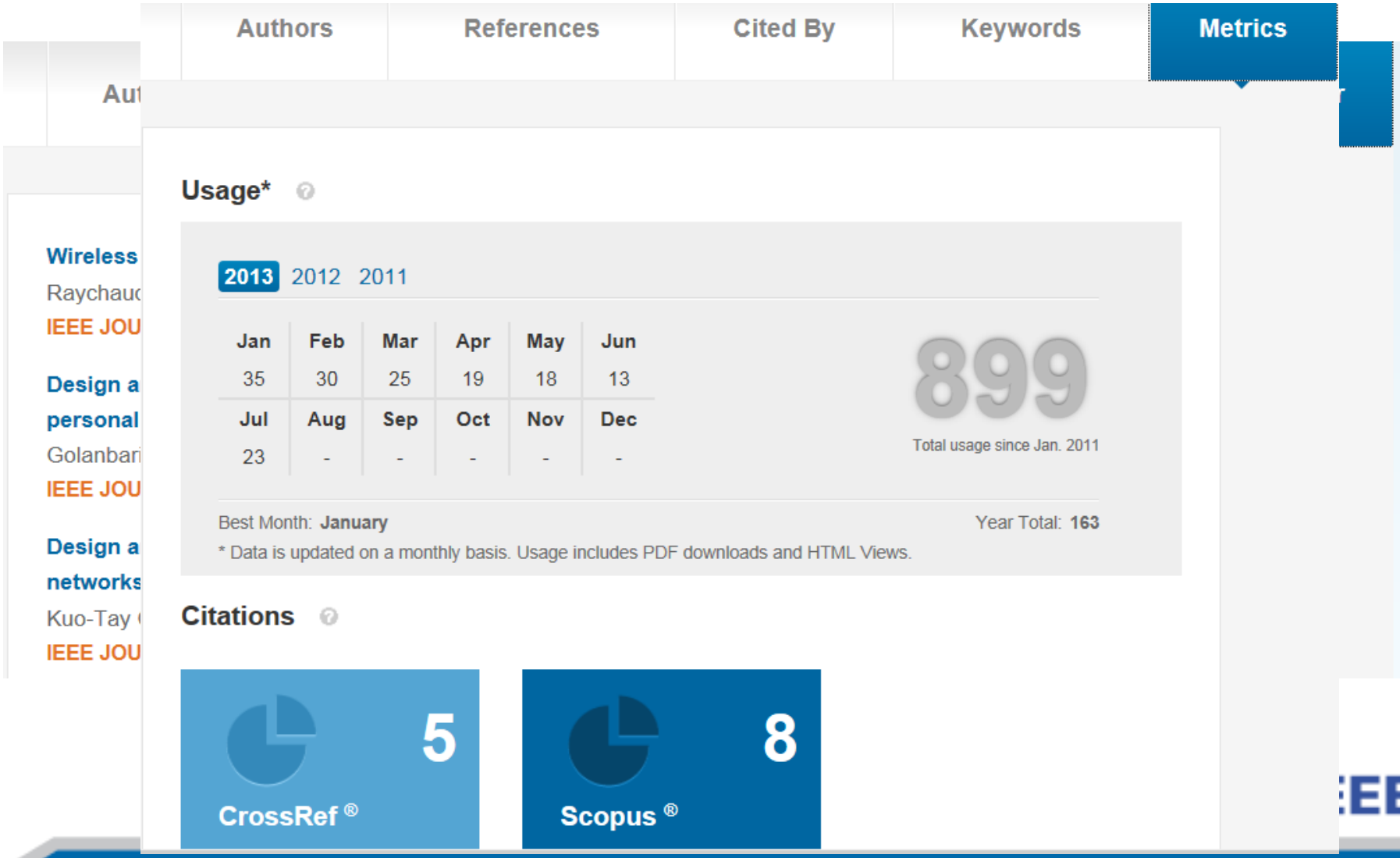
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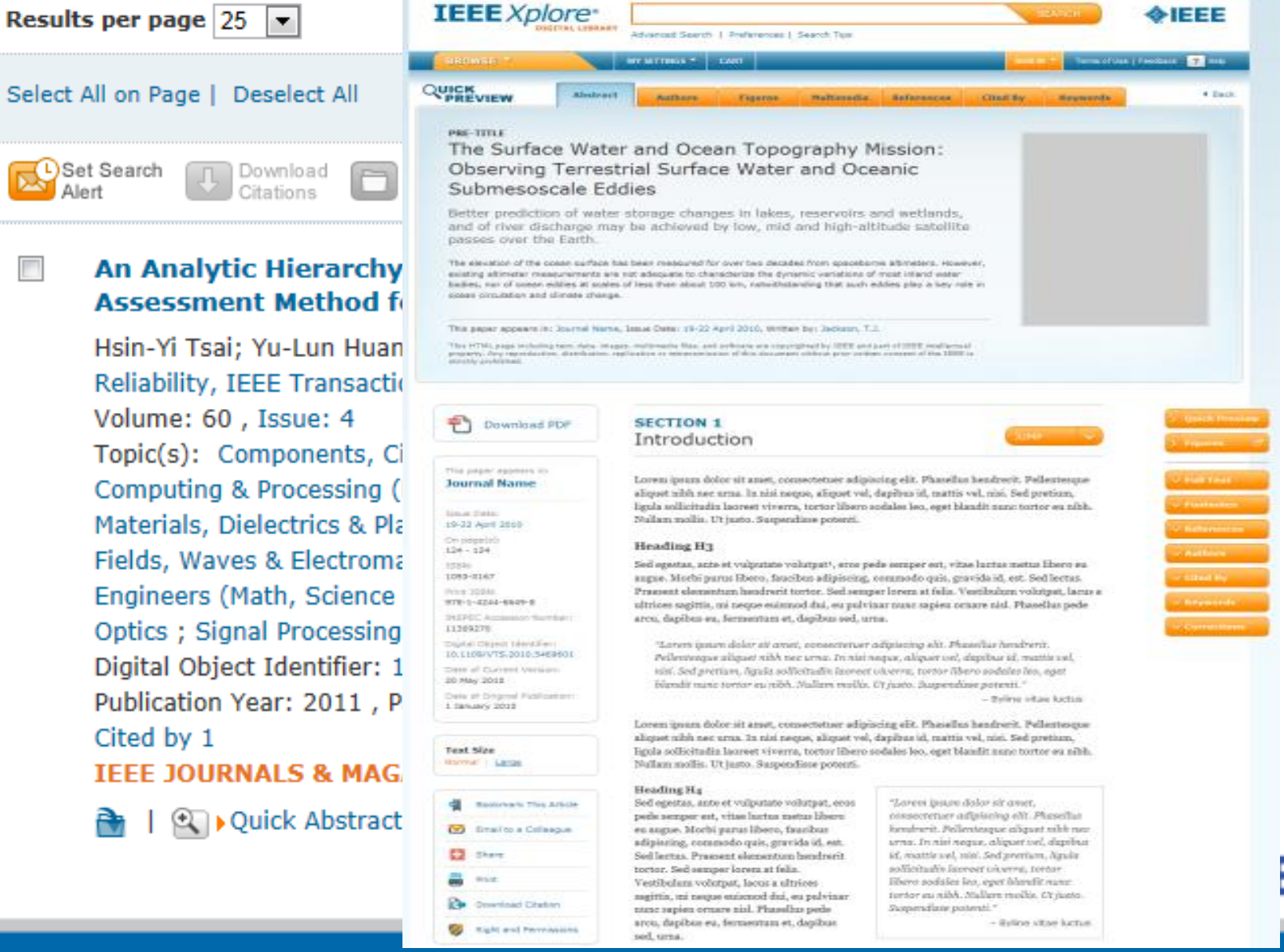
Cited By
Keywords
Metrics
Usage*
2013 2012 2011
Jan Feb Mar Apr May Jun
35 30 25 19 18 13
Jul Aug Sep Oct Nov Dec
23 - - - - -
899
Total usage since Jan. 2011
Best Month: January
Year Total: 163
* Data is updated on a monthly basis. Usage includes PDF downloads and HTML Views.
Citations
5
CrossRef ®
8
Scopus ®

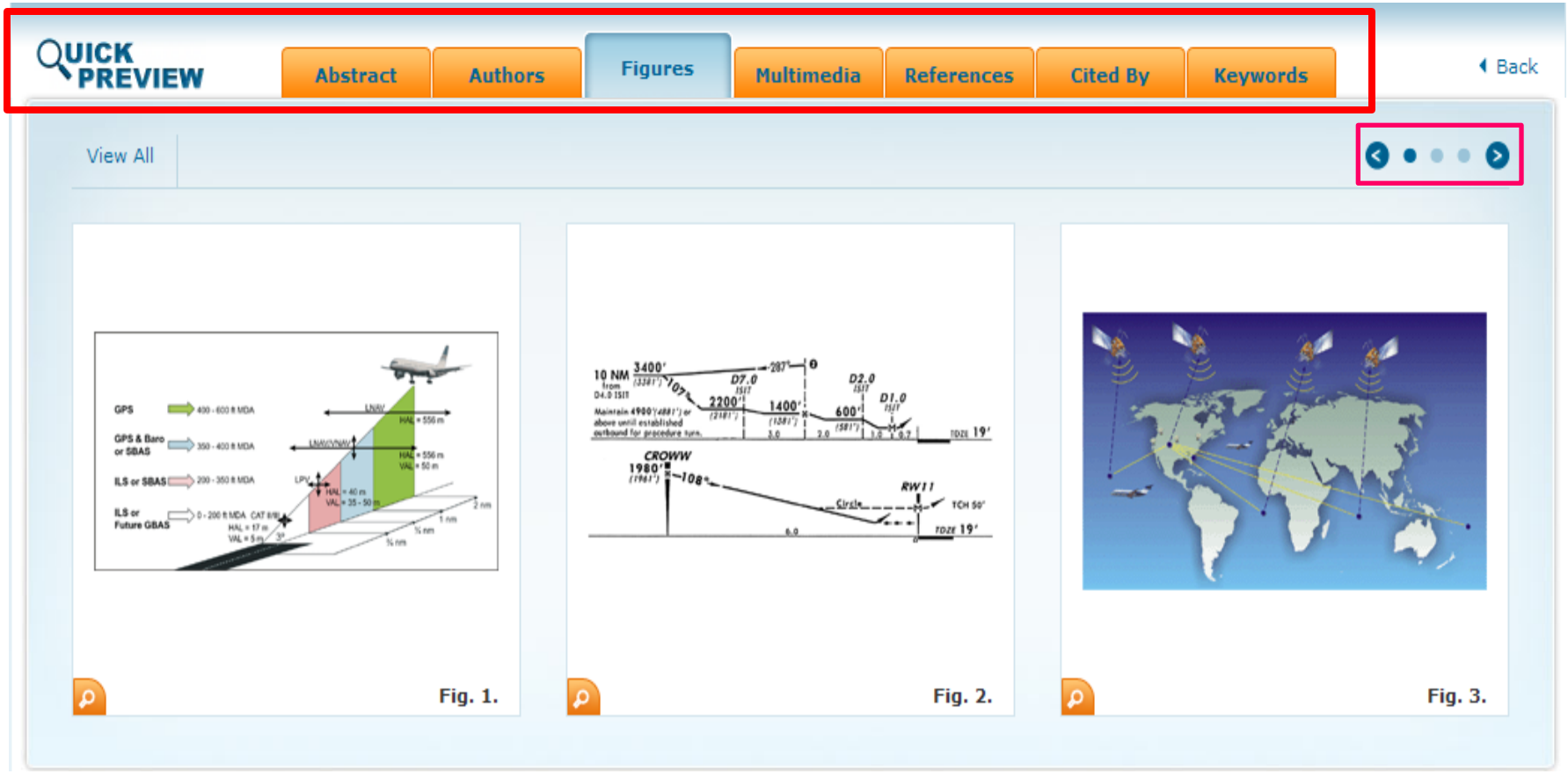
问题 2

- 如何使论文阅读更加高效?

Read Faster-Improve Your Productivity



Figures, Images, Tables



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 we 9 and 2007, errors ut curred on April 10, 4 contained an error of at least

> **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

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- Corrections

IEEE

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 jth satellite can be described as normally distributed with zero mean and variance

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

▾ TeX Source

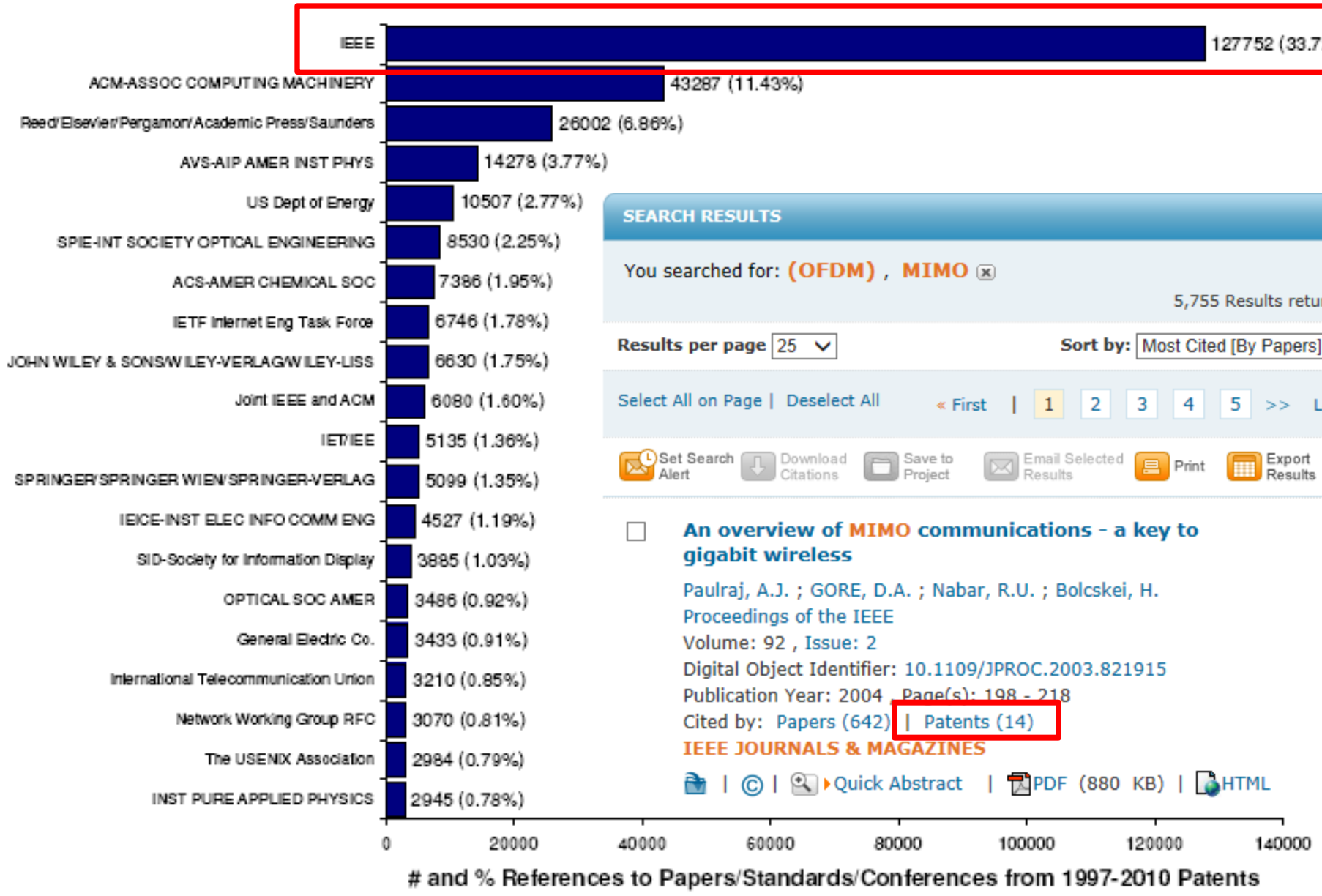
```
$$\sigma_{j,{\rm{DF}}\_{\rm{air}}}^{2}=\left({f_{1}^{2}\over f_{1}^{2}-f_{5}^
{2}}\right)^{2}\sigma_{{\rm L1},j,{\rm air}}^{2}+\left({f_{5}^{2}\over f_{1}^{2}
-f_{5}^{2}}\right)^{2}\sigma_{{\rm L5},j,{\rm air}}^{2} \eqno{\hbox{(1)}}$$
```


IEEE

问题 3

- 看一篇科技论文如何促进产业专利发展?

Figure 2 - # and % of Patent References from Top 25 Companies to Top 20 Journal Publishers



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Patent Citation Linking

US Patent Office (USPTO)

Cited by Patents (14) *Patent Links Provided by 1790 Analytics*

Back To Top

1. Li, Min , "Method And Device For Multiple Input-Multiple Output Detection" , Patent No. 8615057

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Images

(1 of 1)

United States Patent **8,341,524**
Gupta , et al. **December 25, 2012**

Portable electronic device with local search capabilities

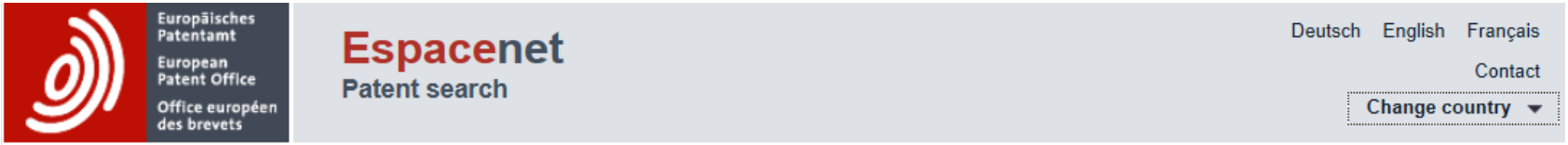
Abstract

Improved methods and systems that assist a user in searching media items on a portable electronic device are disclosed. According to one aspect of the invention, a portable electronic device is provided with a search function that enables a user to search for media items resident on the portable electronic device. The search function can search through different types of media items. Those of the media items that are deemed matching can be ranked in order of relevance and displayed in a list for the user. Thereafter, the user can navigate the list to select one of the listed media items for playback. According to another aspect of the invention, various graphical user interfaces can be presented on a portable electronic device to assist a user in interacting with the portable electronic device to utilize a search function.

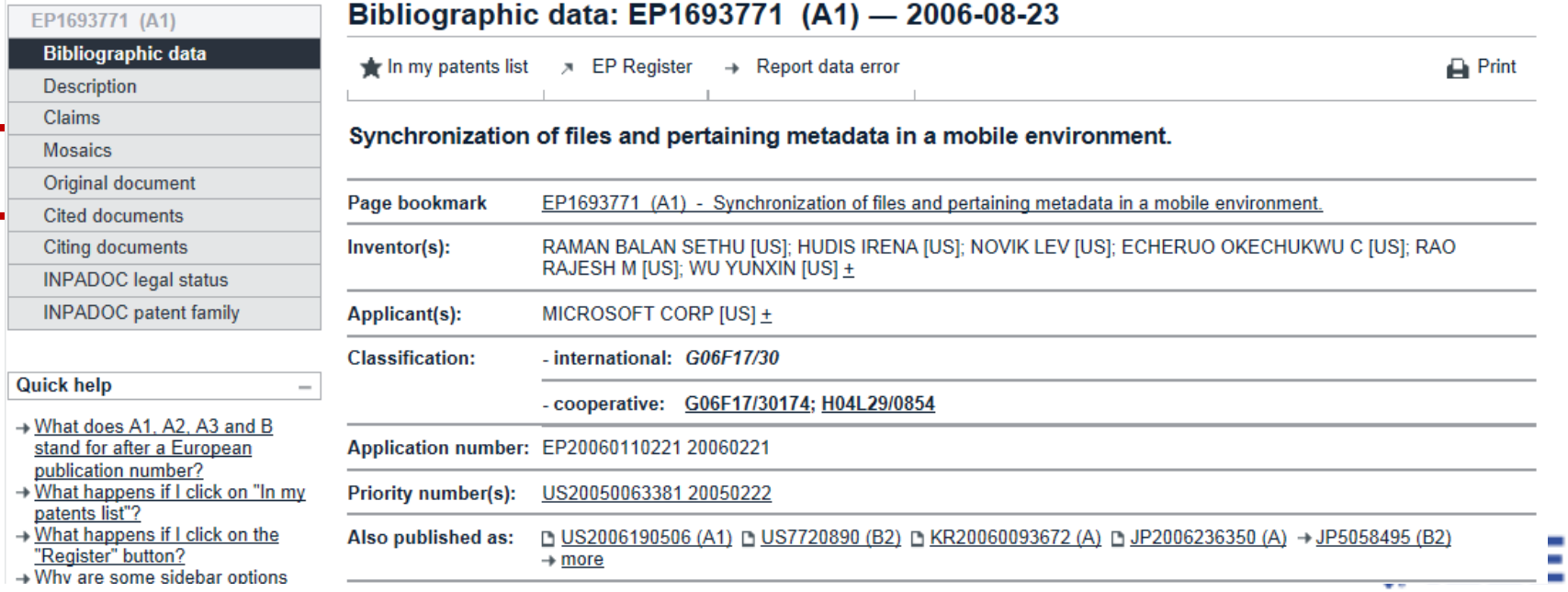
Inventors: **Gupta; Sandeep** (Fremont, CA), **Huang; Szu-Wen** (Fremont, CA), **Marriott; Greg** (Honolulu, HI), **Lee; Jeff** (Sunnyvale, CA)

European Patent Office (EPO)

113.



114.



问题 4

- 如何能够实时追踪新技术动态，某个教授或某个机构的研究进展?
  - Stay up to date on a specific subject or technology
  - Receive invaluable competitive intelligence
  - Gather revealing internal intelligence
  - Encourage collaboration and knowledge sharing

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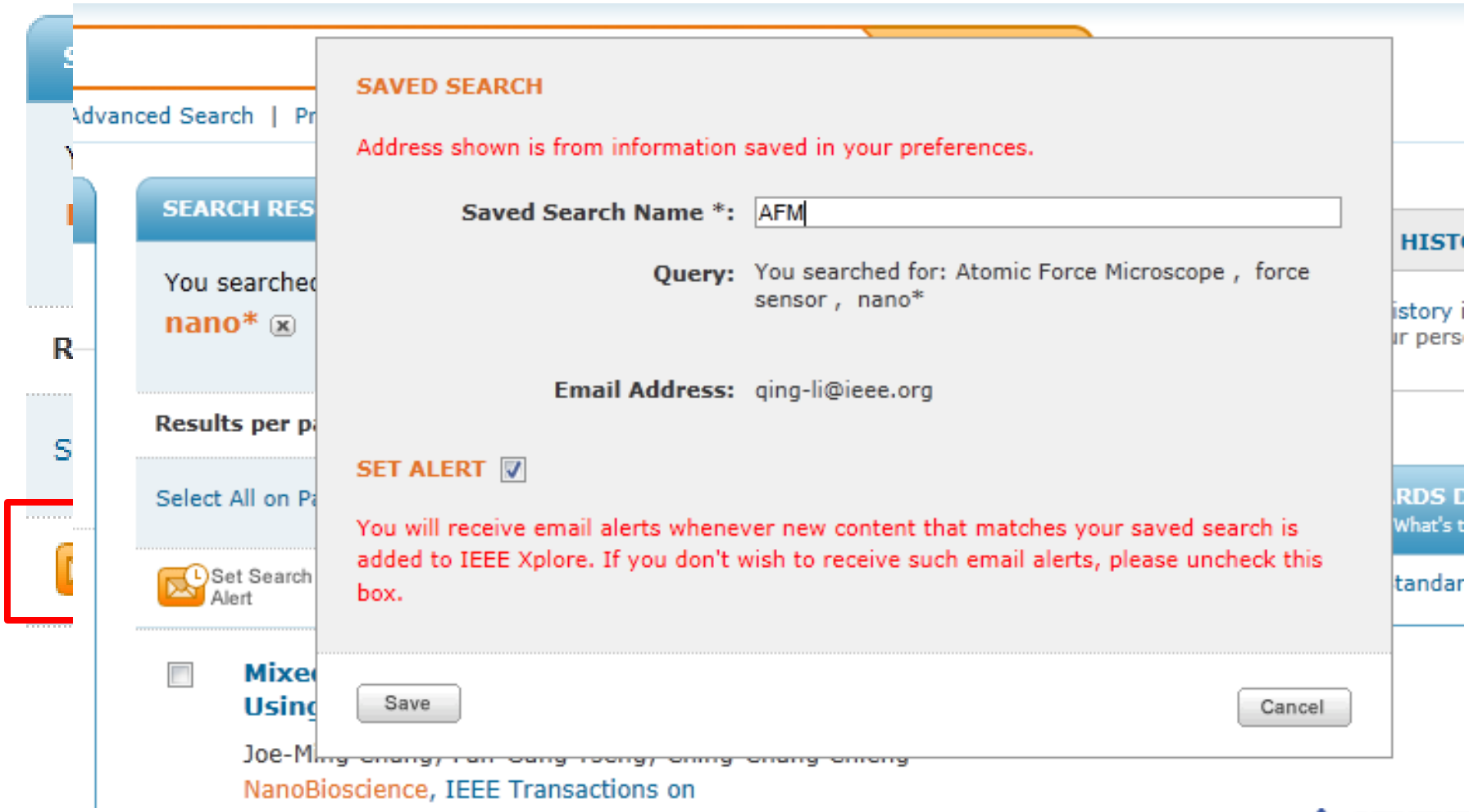
Track a Subject or Technology



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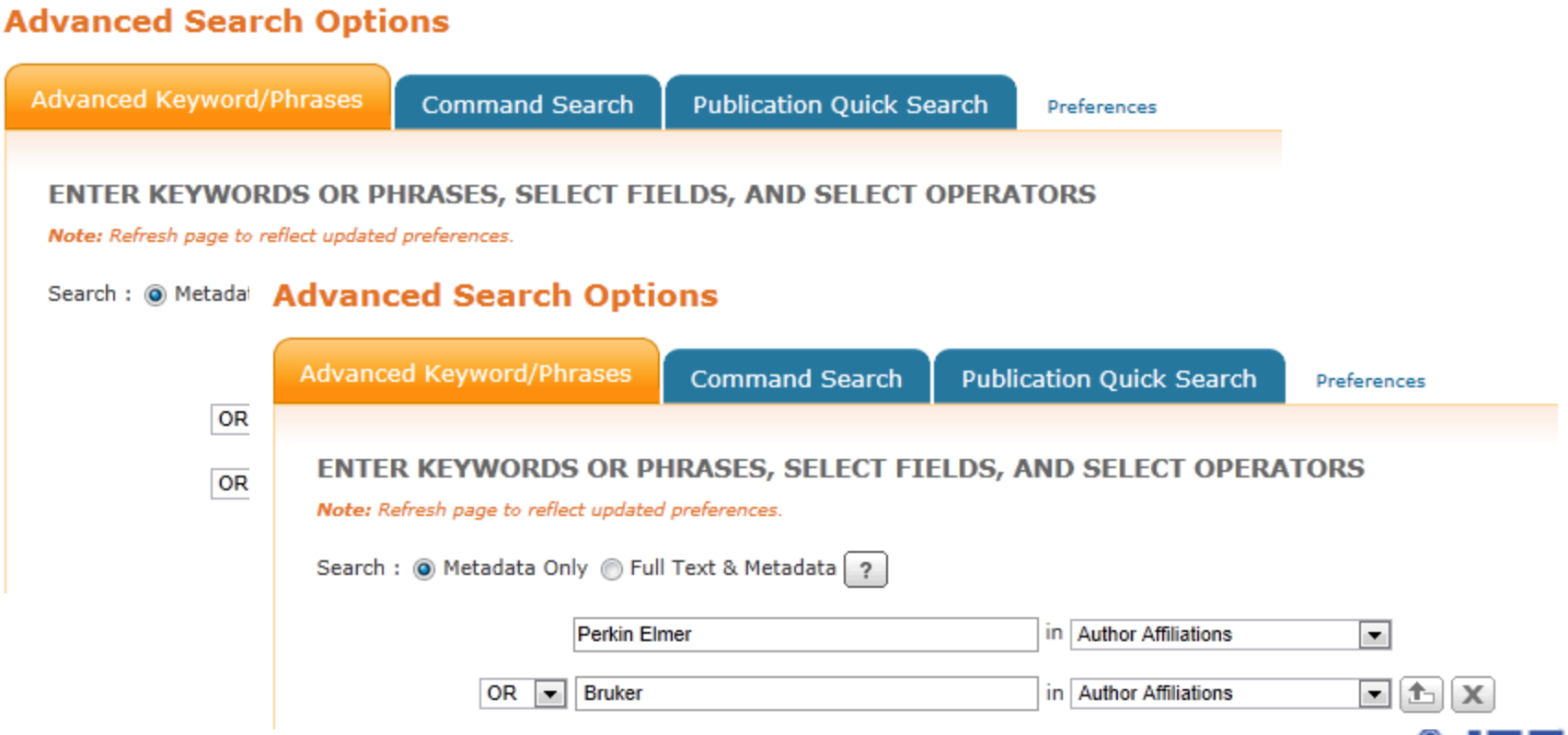

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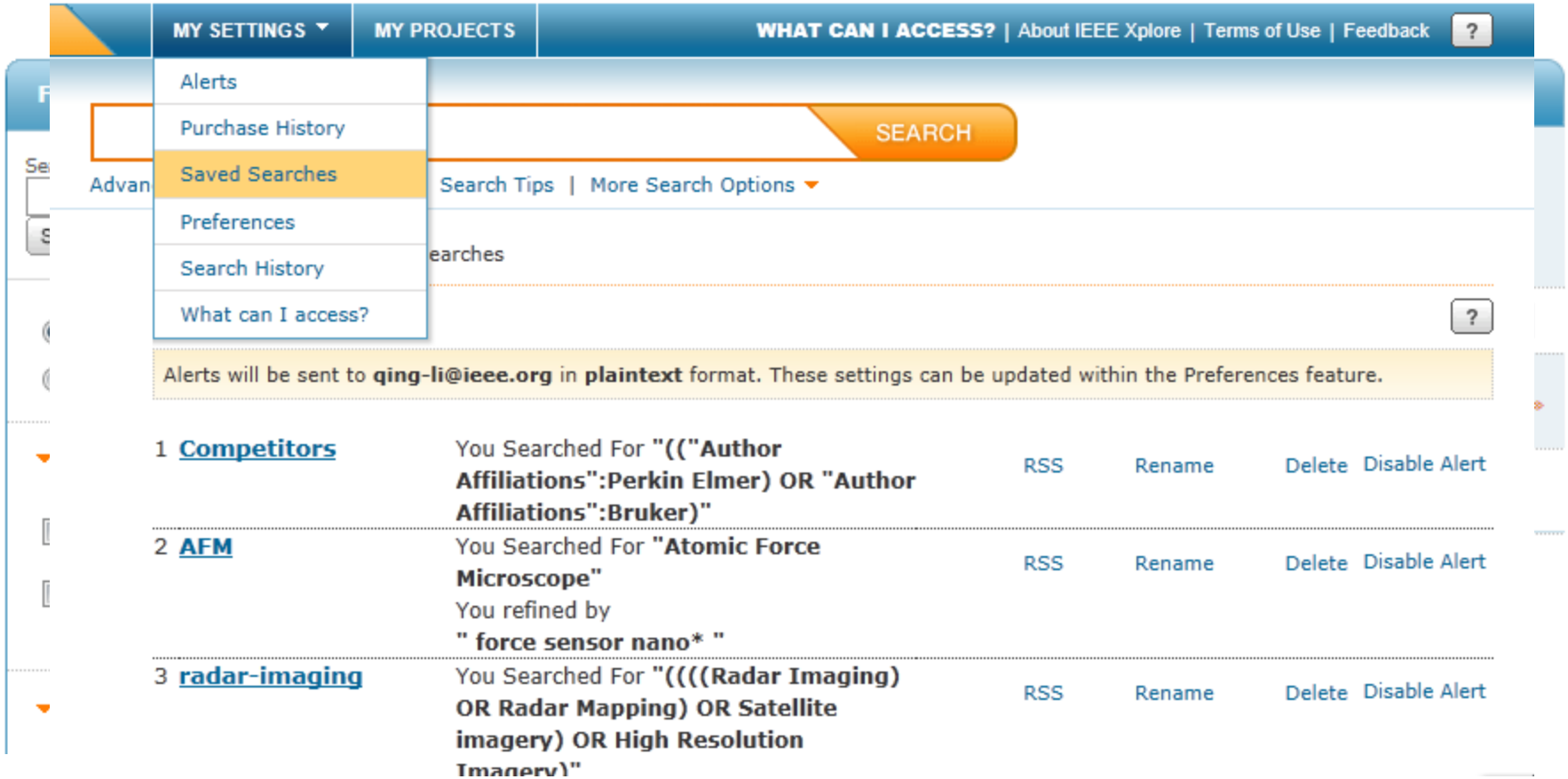

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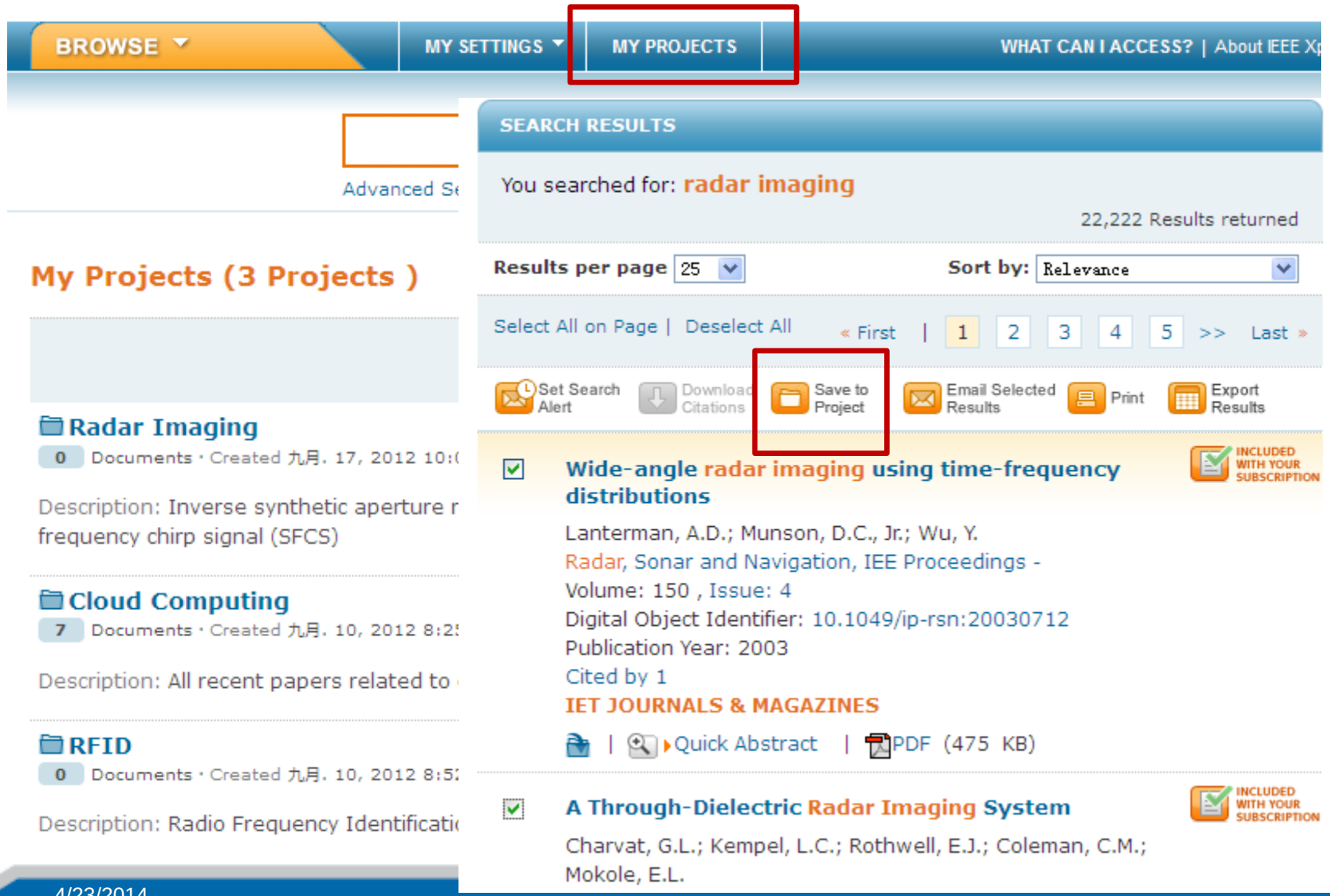

问题5

- 如何才能在IEEE上发表论文呢?

What are the other opportunities to publish at IEEE?

170+

Journals, Transactions, Magazines

1,300+

Conferences

Authors can be "found" where their work belongs.

IEEE

Quality You Can Trust

Journal Citation Report Results, by Impact Factor

IEEE publishes:

- 18 of top 20 journals in Electrical and Electronic Engineering
- 10 of top 10 journals in Telecommunications
- 4 of top 5 journals in Automation & Control Systems
- 4 of top 5 journals in Computer Hardware & Architecture
- 4 of top 5 journals in Computer Science, Artificial Intelligence
- # 1 in Automation & Control
- # 1 in Artificial Intelligence
- # 1 in Cybernetics
- # 1 in Hardware& Architecture
- # 1 in Industrial Engineering
- # 2 in Imaging Science
- # 2 in Remote Sensing

The ISI JCR presents "quantifiable statistical data that provides a systematic, objective way to evaluate the world's leading journals"

(2012 report released June 2013)

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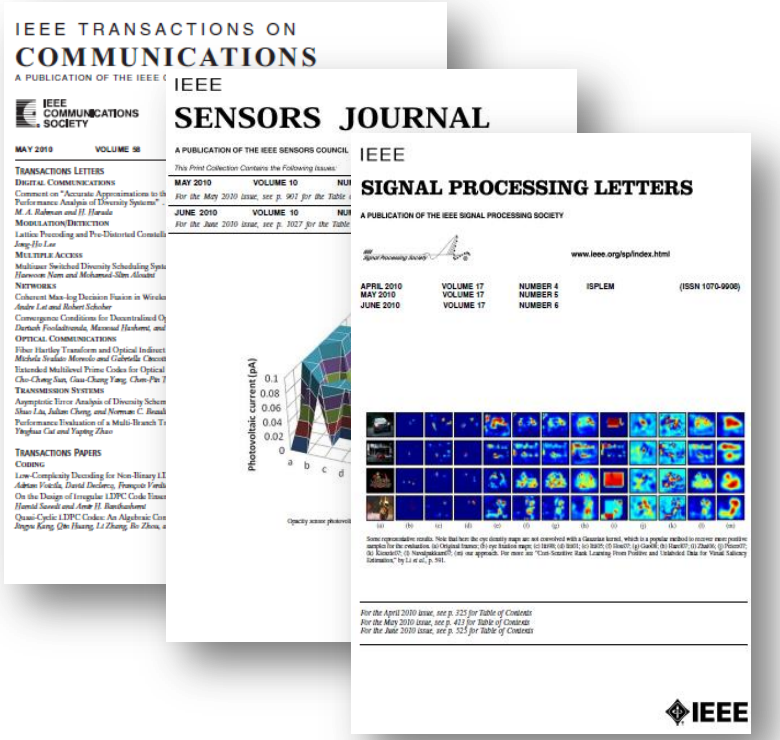
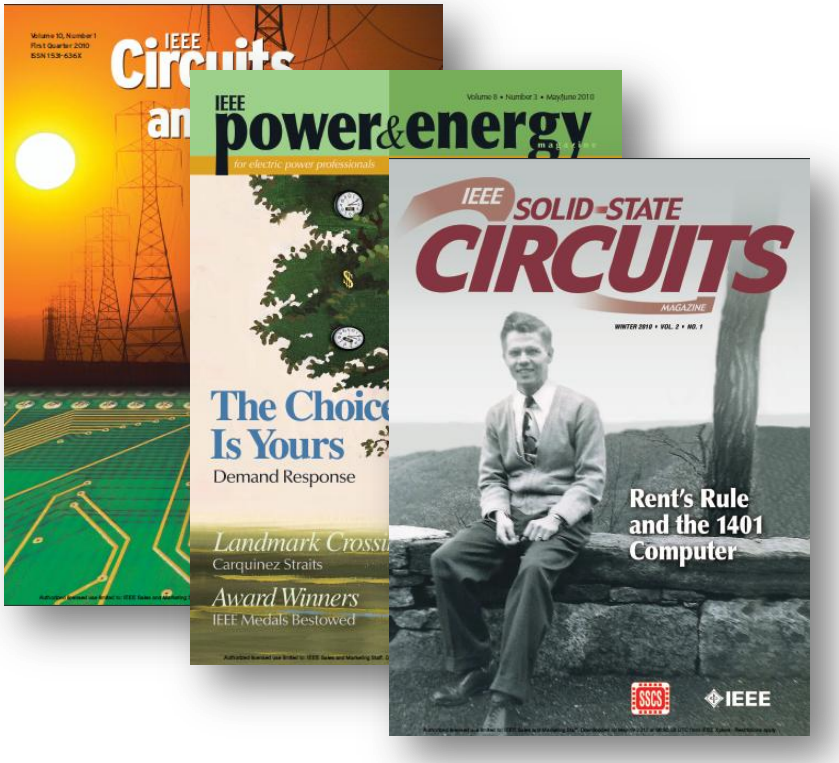
学术期刊-Journals

- 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
  - .....



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The IEEE Transactions on Signal Processing covers novel theory, algorithms, performance analyses and applications of techniques for the processing, understanding, learning, retrieval, mining, and extraction of information from signals. The term "signal" includes, among others, audio, video, speech, image, communication, geophysical, sonar, radar, medical and musical signals. Examples of topics of interest include, but are not limited to, information processing and the theory and application of filtering, coding, transmitting, estimating, detecting, analyzing, recognizing, synthesizing, recording, and reproducing signals.
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A PUBLICATION OF THE IEEE SIGNAL PROCESSING SOCIETY

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The theory and means for achieving these and related aims, along with the environmental, psychological, and physiological factors of these technologies are the scope in overview of the IEEE Transactions on Signal Processing, the IEEE Signal Processing Letters, and IEEE Signal Processing Magazine. Portions are addressed more specifically in other Society journals, IEEE Transactions on Image Processing, the IEEE Transactions on Multimedia, the IEEE Transactions on Audio, Speech and Language Processing, and the IEEE Transactions on Information Forensics and Security.

The scope is reflected in the EDICS: the Editors` Information Classification Scheme.
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- 每本期刊的评审时间各有不同。Xplore上大部分期刊会显示文章被收到、修改、接受和出版的时间。

Manuscript received June 11, 2012; revised December 10, 2012; accepted December 10, 2012. Date of publication January 11, 2013; date of current version March 07, 2013. This work was supported by the Defense Advanced Research Projects Agency under the Purdue Evanescent-Mode Cavity Filter Study Program. The work of J. Lee was supported in part (since May 2012) by the Basic Science Research Program through the National Research Foundation of Korea (NRF) funded by the Ministry of Education, Science, and Technology (2012R1A1A1004665) .

J. Lee is with Department of Computer and Communications Engineering, Korea University, Seoul 136-701, Korea (e-mail: ifsnow@ieee.org).

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H. H. Sigmarsson is with the School of Electrical and Computer Engineering, University of Oklahoma, Norman, OK 73091USA.

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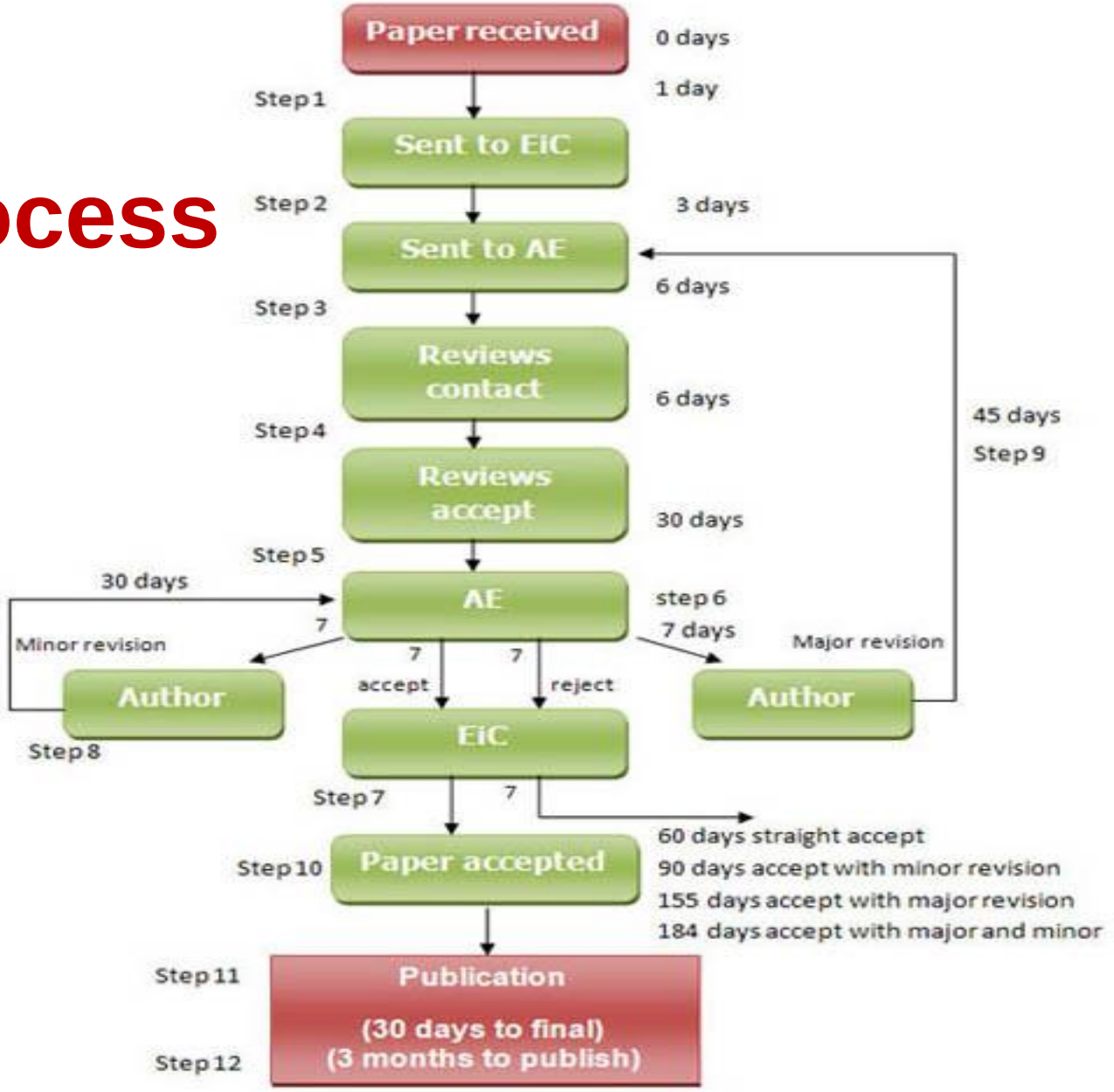

e.g. IEEE Transactions on Information Technology in Biomedicine

Ethics

Types of misconduct

Conflict of Interest

- A financial or other relationship with the publication at odds with the unbiased presentation of data or analysis

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Author Attribution

- Must be given if you use another author's ideas in your article, even if you do not directly quote a source

Author involvement/ contributions

- Include any and all who have made a substantial intellectual contribution to the work
- Do not include minor contributors

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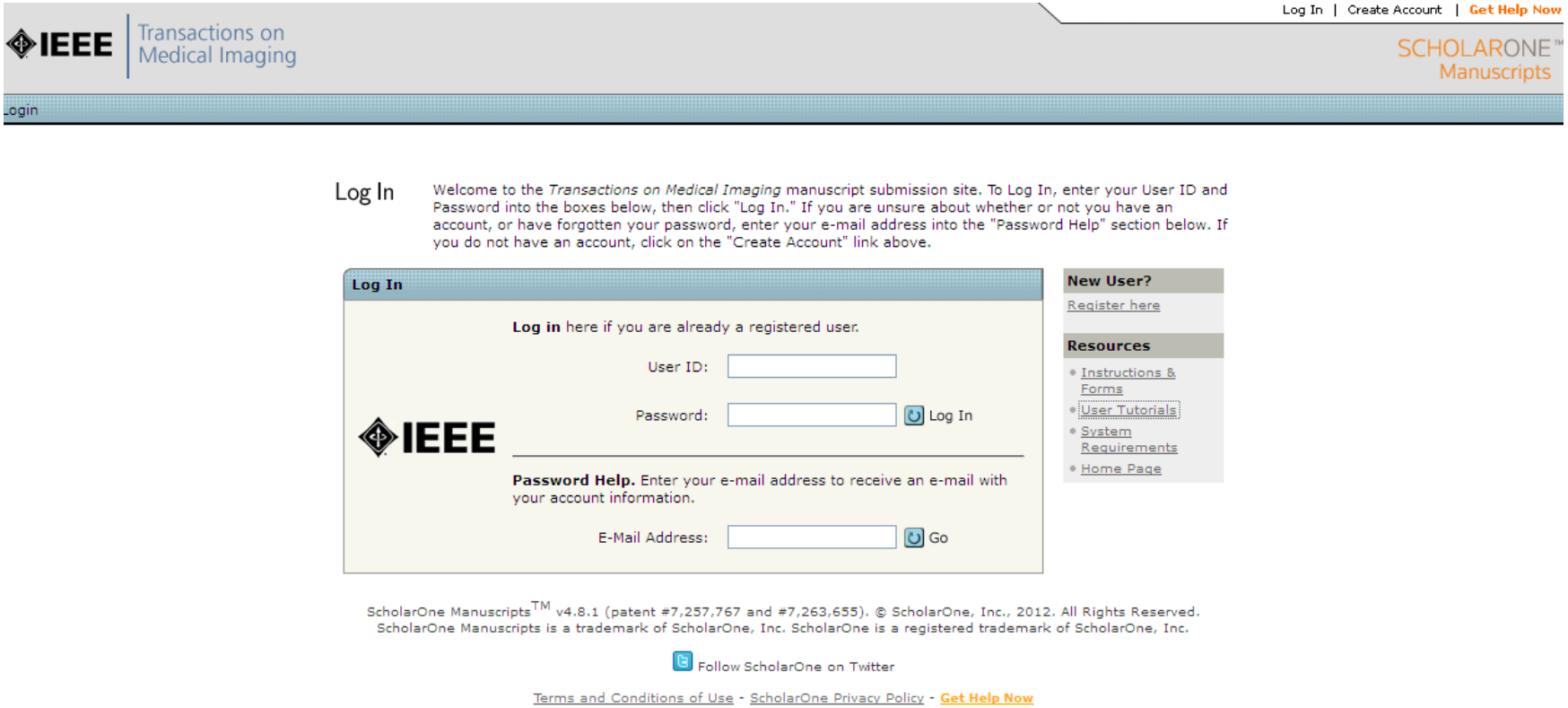

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IEEE国际学术会议

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PUBLICATION YEAR

Single Year Range

1951 — 2013

From: 1951

To: 2013

PUBLISHER

- IEEE (3,368)
- IET (2,447)
- VDE (62)

TOPIC

- Computing & Processing (Hardware/Software) (3,494)

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- IEEE Policy on Plagiarism
- IEEE Policy on Double Submission

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Acoustics, Speech, and Signal Processing (ICASSP), International Conference on

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Proceedings Available:

Acoustics, Speech and Signal Processing (ICASSP), 2012 IEEE International Conference on

Acoustics, Speech and Signal Processing (ICASSP), 2011 IEEE International Conference on

Acoustics Speech and Signal Processing (ICASSP), 2010 IEEE International Conference on

Acoustics, Speech and Signal Processing, 2009. ICASSP 2009. IEEE International Conference on

Acoustics, Speech and Signal Processing, 2008. ICASSP 2008. IEEE International Conference on

MORE HISTORY

Acoustics, Speech and Signal Processing, 2007. ICASSP 2007. IEEE International Conference on

Acoustics, Speech and Signal Processing, 2006. ICASSP 2006 Proceedings. 2006 IEEE International Conference on

Acoustics, Speech, and Signal Processing, 2005. Proceedings. (ICASSP '05). IEEE International Conference on

Acoustics, Speech, and Signal Processing, 2004. Proceedings. (ICASSP '04). IEEE

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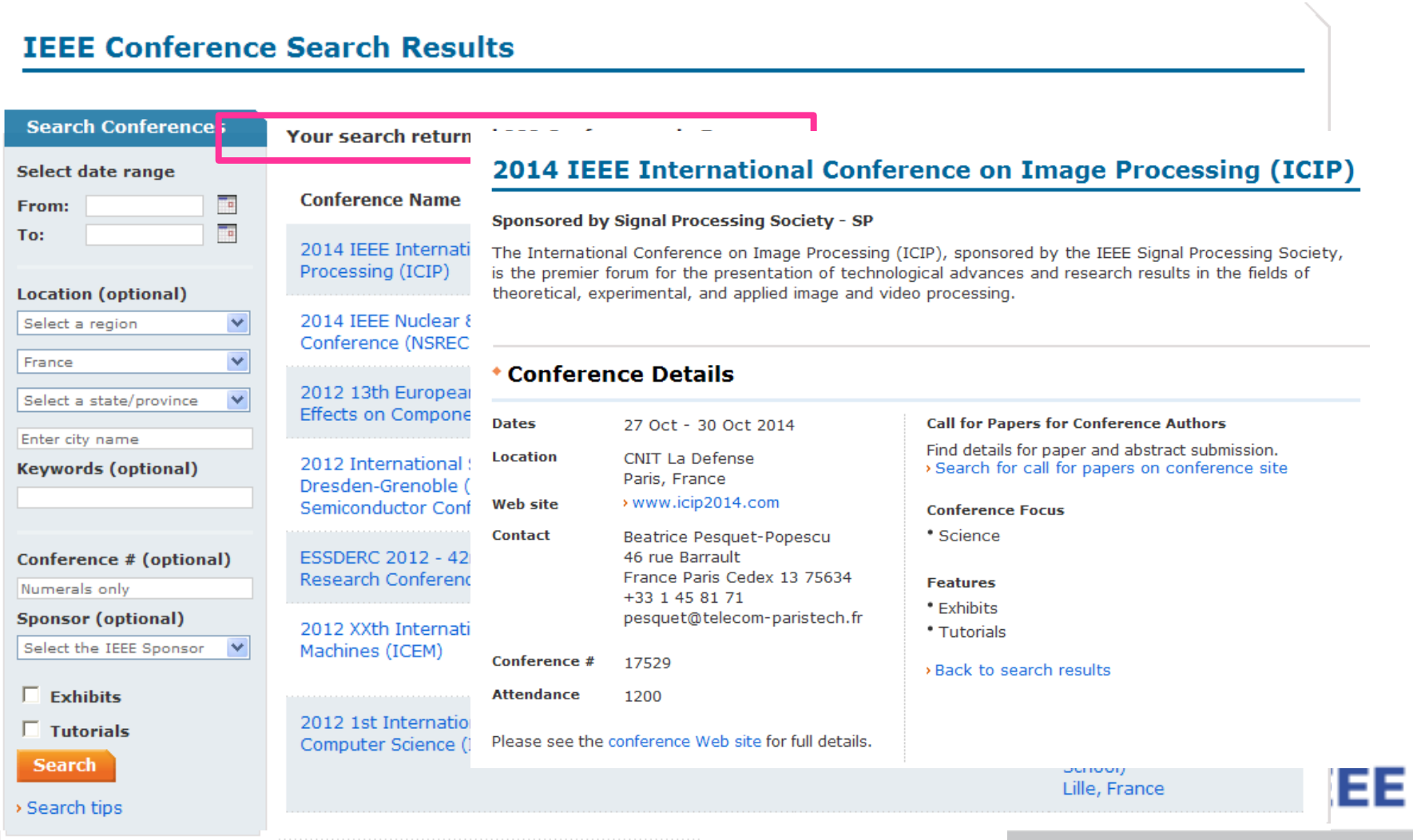

问题6

- 如何参加IEEE各类活动?

欢迎IEEE协会活动！

- Involvement in IEEE Societies, Sections and Chapters
- 2，400 IEEE Student Branches worldwide
- Participation in IEEE GOLD (Graduates of the Last Decade) and Women in Engineering
- 1000+ conferences per year
- IEEE MemberNet, MentorNet, LinkedIn, Facebook and Twitter

IEEE 个人会员

Student Membership: 27$
E-Membership:57$
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IEEE

会员级别及升级

- Student Member/Member
  - 学生会员主要面向专业为IEEE所涉及学术领域的广大本科生和研究生。
  - 学生会员毕业后，其学生会员资格随之终止，根据实际情况升级至相应会员等级。
- Senior Member
  - 升级为高级会员要求申请者需是IEEE相关领域的工程师、科学家、教师、技术主管或发明家，从业经验需达到十年，并在其中五年有杰出表现。在线申请请登陆Senior Member Grade。
- IEEE Fellow
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- Life Member/Fellow
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http://careers.ieee.org/

IEEE ResumeLab

www.ieee.org/resumelab

Resumes/Curriculum Vitae

- Select from a wide array of templates geared toward specific industries, sectors and work experience stages.

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- From cover letter to post-interview thank you letter, ensure optimal communication throughout the hiring process.

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- Highlight the skills that you possess, your competency in those skills, and what makes your experience with these skills unique.

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- Prepare for the real thing by selecting an interviewer and the type of questions they'll ask.
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- Record custom video messages for potential employers.

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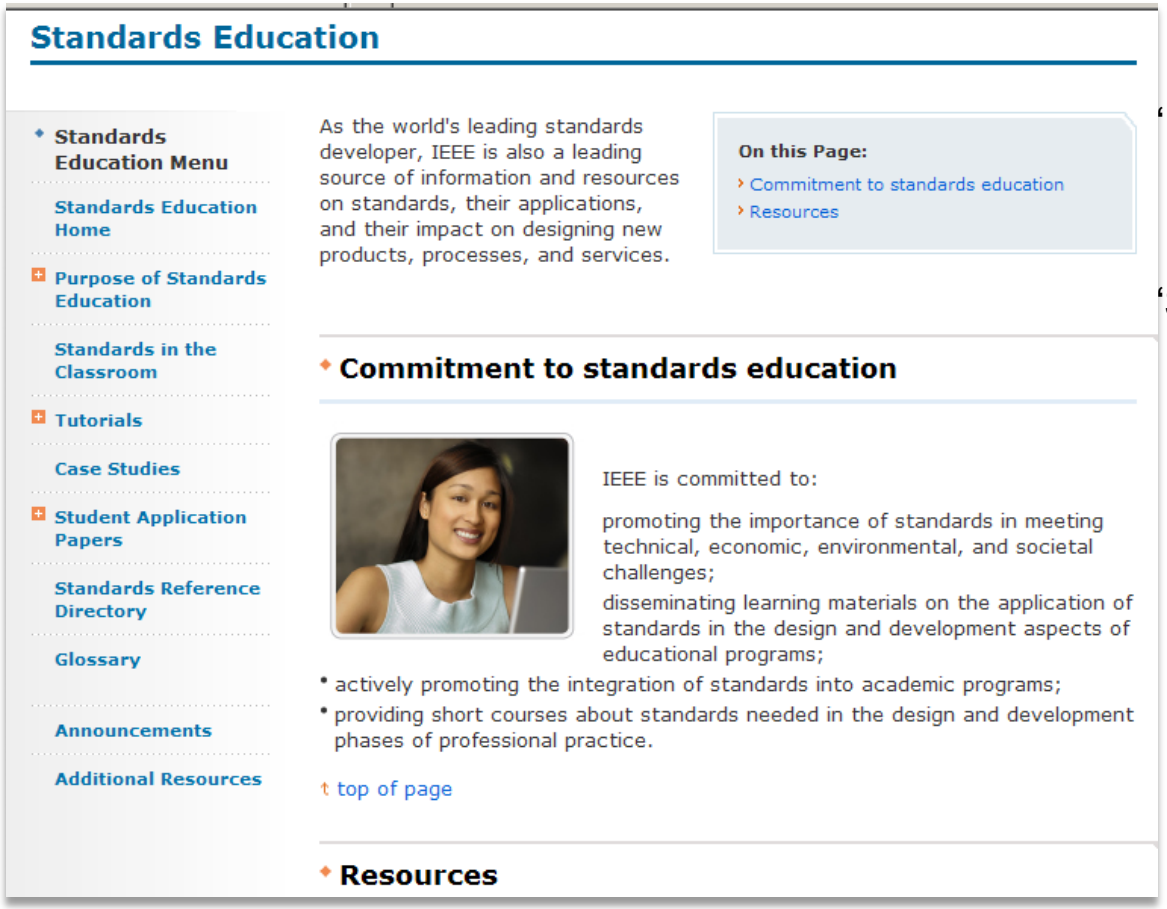
- Upload and organize your past work to present to potential employers.

Share Online

- Publish and share everything you create on a publicly viewable website.

Connect with Industry Leaders



'If you control an industry's standards, you control it lock, stock and ledger."

'Standardization programs offer one of the best, most important means to evaluate current technology and provide a glimpse of where future technology innovations may occur.

The Strategic Value of Standards Education

A Global Survey conducted by

the Center for Global Standards Analysis

IEEE Mini-Grants and Student Application Papers

- SEC is offering Mini-Grants to students and faculty mentors

- Help with graduate and undergraduate last-year design projects that contain an industry standards component

  - $500 grants for students
  - $300 grants for faculty advisors

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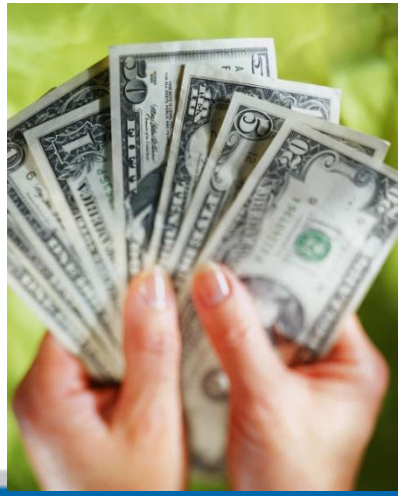

5. 欢迎申请丰厚的IEEE奖学金！

- IEEE Fellowship/Scholarship
  - IEEE Charles LeGeyt Fortescue Fellowship
  - IEEE Computational Intelligence Society Conference Travel Grants
  - IEEE Computational Intelligence Society Summer Research Grant
  - IEEE Components, Packaging, and Manufacturing Technology Society Graduate Fellowship for Research on Electronic Packaging
  - IEEE Computer Society Merwin Scholarship
  - IEEE Dielectrics and Electrical Insulation Society Graduate Student
  - IEEE Electron Devices Society Graduate Student Fellowship
  - ……
- IEEE Competitions
  - Presidents' Change the World Competition
  - IEEE Computer Society Simulator Design Competition
  - Student paper contest
  - ……

  http://ieee.org/membership_services/membership/students/awards/index.html

IEEE Computational Intelligence Society Summer Research Grant

IEEE Life Member Graduate Study Fellowship in Electrical Engineering

- IEEE Stu
- Student Pr Highlights
- Student Co
- Student So
- IEEE Poter Magazine
- Student M Benefits
- Local IEEE Communit
- Student Vo Resources

- IEEE Awards Program
- IEEE Awards
- Awards Board & Related Committees
- Awards Information and Guidelines
- IEEE Award Presentations
- IEEE Sponsors
- Women Award Recipients
- Search for IEEE-Level Award Recipients

Read about the IEEE Life Member Graduate Study Fellowship in Electrical Engineering.

On this Page:

- Award information
- Award nomination forms
- Award recipients
- IEEE Prize Papers/Scholarship Awards Committee members

Award information

The IEEE Life Member Graduate Study Fellowship in Electrical Engineering was established by the IEEE Board of Directors in February 2000. The fellowship is administered by the IEEE Awards Board and is financed by the IEEE Life Members Fund.

Eligibility: The fellowship is awarded annually to a first year, full-time graduate student obtaining his or her Master's for work in the area of electrical engineering at an engineering school/program of recognized standing worldwide. In the event the college is conducting a combined B.S. and M.S. degree program, the student in the penultimate year would be eligible for the award which would apply in the final year of the program.

Prize: The award carries a stipend of US$10,000 per year. The stipend will be paid directly to the college/university at which the recipient will pursue full-time

IEEE Regional Student Paper Contests

IEEE Systems Man and Cybernetics Student Paper Competition

This award was established to

Engineering in Medicine and Biology Society Student Paper Contest

- IEEE Students
  - Student Program Highlights
  - Student Competitions
  - Student Scholarships
  - IEEE Potentials Magazine
  - Student Member Benefits
  - Local IEEE Student Communities
  - Student Volunteer Resources

The IEEE Engineering in Medicine and Biology Society has a student paper contest for student members funded through the generous support of the Whitaker Foundation. Submissions are evaluated on merit, structure, clarity of composition and originality, and undergo the same review process as regular conference papers. Finalists must attend the conference and present their papers as either a platform or poster presentation and will receive free conference registration and limited travel support.

On this Page:

- Prize
- Eligibility
- Basis for Judging
- Presentation
- Deadline
- Contact

Prize

Prizes include US$300, US$200, US$100 cash awards, certificate, and complimentary conference registration, social function tickets, conference proceedings and limited travel reimbursement.

IEEE学生竞赛

- **Engineering Projects in Community Service (EPICS)**http://www.ieee.org/education_careers/education/preuniversity/epics_high.html
- **Engineering for Change**https://www.engineeringforchange.org
- **IEEE Xtreme 24-Hour Programming Competition**
http://www.ieee.org/xtreme
- **IEEE Presidents' Change the World Competition**
www.ieee.org/changetheworld
- **Smarter Planet Challenge**
http://www.ieee.org/go/smarter_planet_challenge

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IEEE

IEEE Student Branches in China

- 目前中国的学生会员已经超过4000人。
- 通过学生分会通过开展特定的项目、活动，开拓青少年的科学眼界，培养其工程素养。
- 迄今为止，中国学生分会的数目已达30个。
  - IEEE 河北大学学生分会
  - IEEE 中国科学院研究生院学生分会
  - IEEE 清华大学学生分会
  - IEEE 哈尔滨工业大学深圳研究生院学生分会
  - IEEE 北京邮电大学学生分会
  - IEEE 北京交通大学学生分会
  - IEEE 北京大学学生分会
  - IEEE 北京工业大学学生分
  - IEEE 北京理工大学
  - IEEE 北京大学深圳研究生院学生分会
  - IEEE 北京航天航空大学学生分会
  - IEEE 重庆大学学生分会
  - IEEE 电子科技大学学生分会
  - IEEE 华南理工大学学生分会
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  - IEEE 深圳大学学生分会
  - IEEE 哈尔滨工业大学学生分会
  - IEEE 东南大学学生分会
  - IEEE 南京理工学生分会
  - IEEE 浙江大学学生分会
  - IEEE 上海交通大学学生分会
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  - IEEE 华中科技大学学生分会
  - IEEE 西安交通大学学生分会
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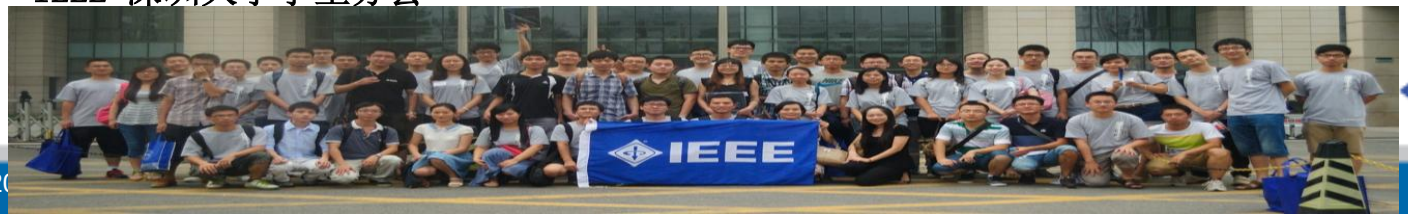

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