

IEEE Xplore/IEL培训教程

Thursday, October 15, 2020

张武荣 博士 IEEE Senior Member
IEEE中国客户和资讯经理

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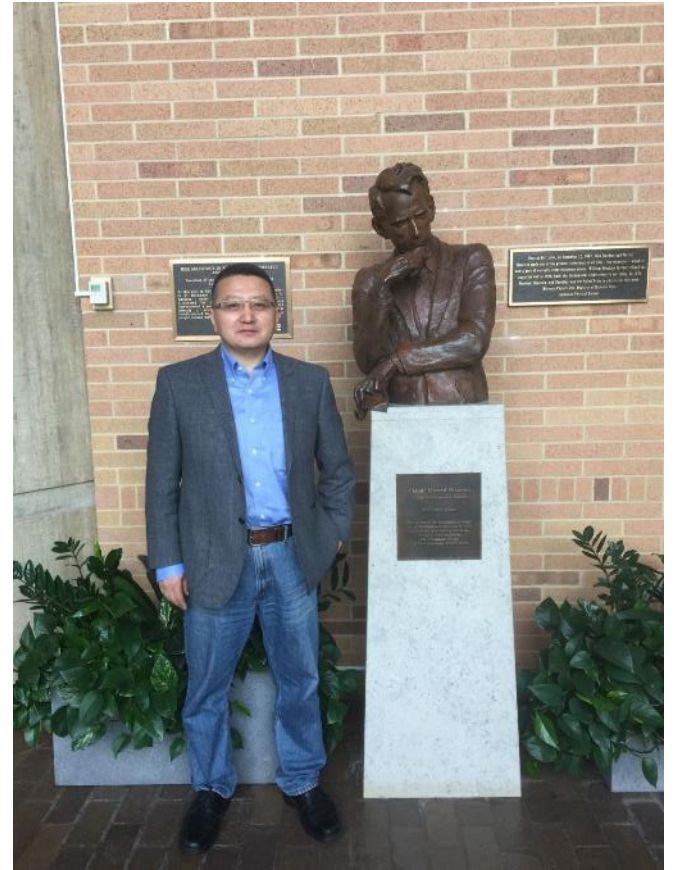
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主讲人：张武荣 博士

IEEE 中国区客户和资讯经理，IEEE高级会员

张武荣博士从北京邮电大学获信号与信息处理专业博士学位，是IEEE的高级会员。他在华为从事通信技术研究和开发工作11年，是华为六级技术专家。他曾在Agilent担任测量技术和产品的研发项目经理近10年。张武荣博士曾担任MulleFire标准组织技术标准组的副主席。他是3GPP标准组织的资深代表，深度参与了4G/5G技术的研究和标准化，并曾在3GPP启动多个项目并担任报告人。他合著有专业书籍一本，并在包括IEEE Transactions等期刊和IEEE会议上发表了20多篇学术文章，以及超过80个专利。



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IEEE/Xplore数据库资源详解



IEEE的成立历史

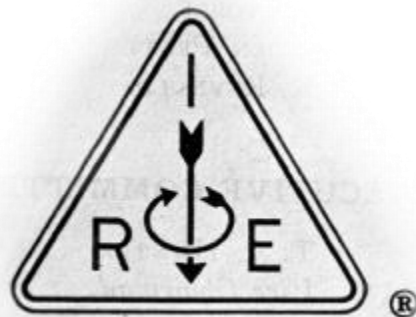
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1884 1912 1963 Present



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IRE
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标准



期刊



会议



教育



最新数字中的IEEE*

会员

419,007

Total Members

Top 5 Countries for Members



124,442

Student Members

Top 5 Countries for Student Members



Ten Regions Worldwide

Sections	Student Branches	Chapters
342	3,422	2,490

新增期刊论文

82,494

New Journal Articles

(out of 1,279,197)

6,551

Magazine Articles

(out of 160,959)

2018

57,628
JOURNAL ARTICLES

2,874
MAGAZINE ARTICLES

会议

1,969

IEEE Sponsored Conferences

in 103 Countries

178,995

New Conference Articles

(out of 3,607,604)

547,000

Conference Attendees

2018

195,954
CONFERENCE ARTICLES

新增技术标准

110

Standards Approved

for Publication out of

1,100+

Active

825

Under Development

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*数据来源于IEEE年报

<https://www.ieee.org/about/annual-report.html>



IEEE Technical Societies

IEEE SOCIETY MEMBERSHIPS

4,941	IEEE Aerospace and Electronic Systems Society	2,972	IEEE Magnetics Society
9,181	IEEE Antennas and Propagation Society	10,917	IEEE Microwave Theory and Techniques Society
1,796	IEEE Broadcast Technology Society	3,781	IEEE Nuclear and Plasma Sciences Society
10,498	IEEE Circuits and Systems Society	1,838	IEEE Oceanic Engineering Society
21,477	IEEE Communications Society	6,252	IEEE Photonics Society
7,961	IEEE Computational Intelligence Society	38,551	IEEE Power & Energy Society
49,941	IEEE Computer Society	9,873	IEEE Power Electronics Society
2,754	IEEE Consumer Electronics Society	861	IEEE Product Safety Engineering Society
8,654	IEEE Control Systems Society	690	IEEE Professional Communication Society
2,128	IEEE Dielectrics and Electrical Insulation Society	1,672	IEEE Reliability Society
3,370	IEEE Education Society	14,824	IEEE Robotics and Automation Society
3,769	IEEE Electromagnetic Compatibility Society	16,995	IEEE Signal Processing Society
10,355	IEEE Electron Devices Society	1,727	IEEE Society on Social Implications of Technology
2,556	IEEE Electronics Packaging Society	10,578	IEEE Solid-State Circuits Society
10,122	IEEE Engineering in Medicine and Biology Society	5,505	IEEE Systems, Man, and Cybernetics Society
4,233	IEEE Geoscience and Remote Sensing Society	3,094	IEEE Technology and Engineering Management Society
7,646	IEEE Industrial Electronics Society	2,239	IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
14,763	IEEE Industry Applications Society	4,846	IEEE Vehicular Technology Society
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3,976	IEEE Instrumentation and Measurement Society		
1,959	IEEE Intelligent Transportation Systems Society		
		328,558	Total Society Memberships

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39
IEEE
Societies



IEEE改变世界—诸多诺贝尔奖项后的IEEE

- 5G
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- Automotive
- Autonomous Vehicles
- Battery
- Biomedical
- Biometrics
- Broadcasting
- Circuits
- Cloud Computing
- Communications
- Computing
- Cyber Security
- Electronics
- Energy
- Imaging
- Information Technology
- Internet of Things (IoT)
- Medical Devices
- Nanotechnology
- Nuclear Science
- Optics
- Petroleum & Gas
- Power Electronics
- Power Systems
- Renewable Energy
- Robotics & Automation
- Semiconductors
- Smart Grid
- Software
- Transportation
- Wearable Technology
- Wireless Broadband



无线传输 光纤 三极管 集成电路

电荷耦合器(CCD)

激光



IEEE在其所关注的领域都有高质量的期刊

电气电子, 电信, 计算机, 自控 (Journal Impact Factor) :

- Electrical and Electronic Engineering: 27 in top 30
- Telecommunications: 21 in top 25
- Automation and Control Systems: 5 in top 5
- Computer Science
 - Artificial Intelligence: #1, 3, 5
 - Cybernetics: #1, 2, 3
 - Hardware & Architecture: #1, 2, 3
 - Information Systems: #1, 2, 3, 4
 - Software Engineering: #3, 4, 5
 - Theory & Methods: #2, 3

电气电子, 电信: (By Eigenfactor® Score or Article Influence® Score)

- 9 of the top 10 journals in Electrical and Electronic Engineering
- Top 10 journals in Telecommunications

交叉和新兴领域: (By Journal Impact Factor)

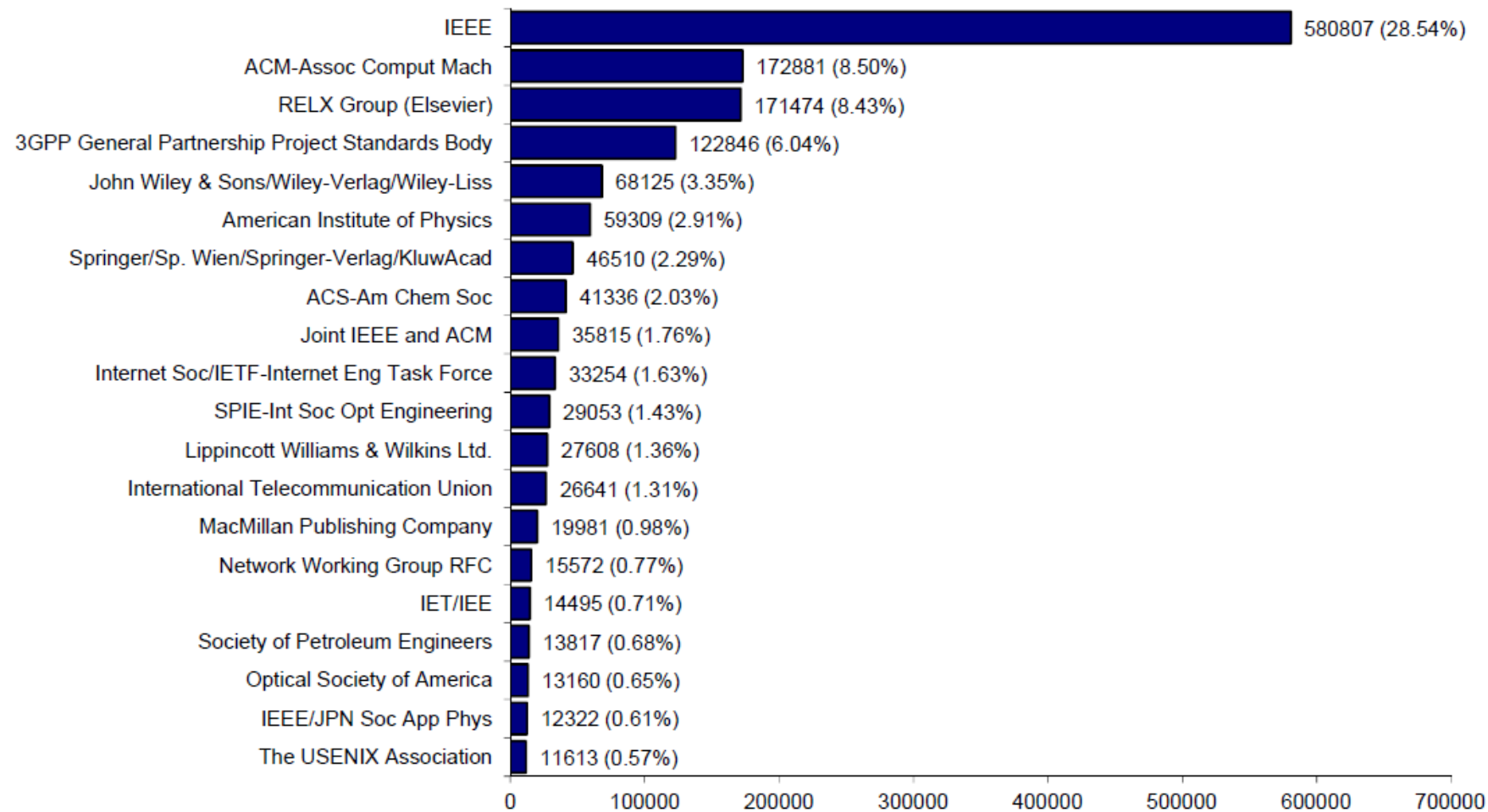
- Engineering
 - Aerospace: #3
 - Manufacturing: #5
 - Civil: #2
 - Industrial: #1
 - Ocean: #3
- Imaging Science & Photographic: #1, 4, 5
- Instruments and Instrumentation: # 1
- Medical Informatics: #4
- Quantum Science & Technology: #4
- Remote Sensing: #1, 5
- Robotics: #2
- Transportation Science & Technology: #2, 3, 5

Source: 2019 Journal Citation Reports
(Clarivate Analytics, 2020)

www.ieee.org/citations



IEEE的文献广泛被专利引用



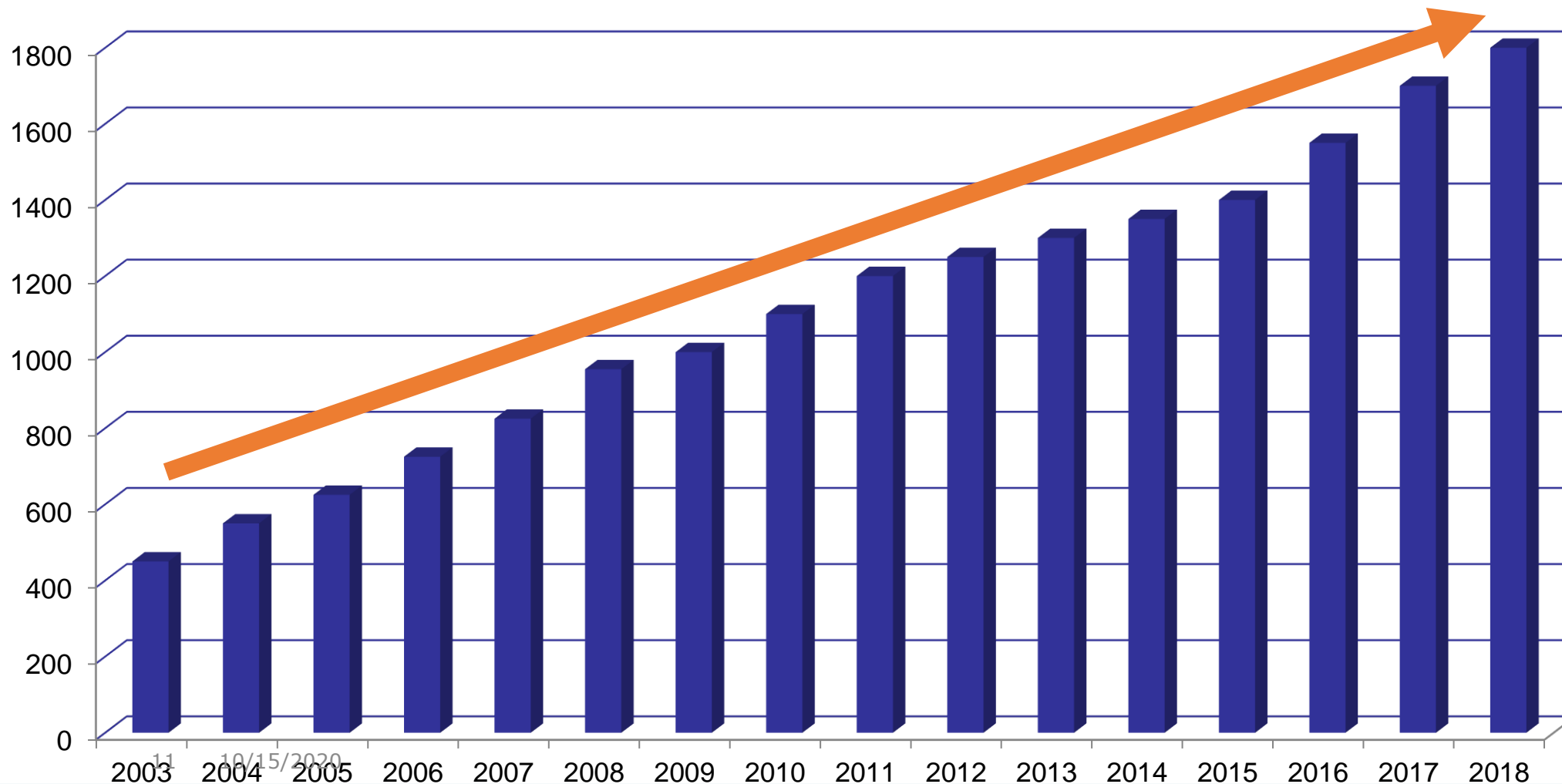
and % References to Papers/Standards/Conferences from 1999-2019 Patents

Source: 1790 Analytics, 2020

US Patent
References
from Top 50
Companies
to Top 20
Journal
Publishers

IEEE会议逐年增加

每年超过1,800 场会议； 有366+万会议论文收录于IEEE Xplore 中



IEEE Xplore Digital Library: 数字图书馆

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~8200+
种会议论文集

~4900+
本书

~3,800
种标准

~500+
培训课程

IEEE Active: 218 (71%)
IEEE总数: 389 (65%)
总数: 592

IEEE会议论文种: 5440+ (66%)
IEEE会议论文集总数: 26240+

IEEE出版世界电气电子工程和计算机领域

1/3 的文献



IEEE Xplore 平台收录内容

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 - ▶ IET会议录
 - ▶ VDE会议录
 - ▶ Bell Labs技术期刊
- 包含在
- ▶ IBM期刊, MIT期刊, AGU期刊, BIAI
 - ▶ (OA 期刊): TUP, CSEE, CPSS, CES, CMP, URSI
 - ▶ IEEE-Wiley, IEEE-Wiley Telecom, MIT电子书
 - ▶ Morgan & Claypool , Now Publishers 综述文集
 - ▶ SMPTE 期刊、会议、标准
 - ▶ 在线课程

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文献最早追溯到1872年

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IEEE/Xplore检索培训

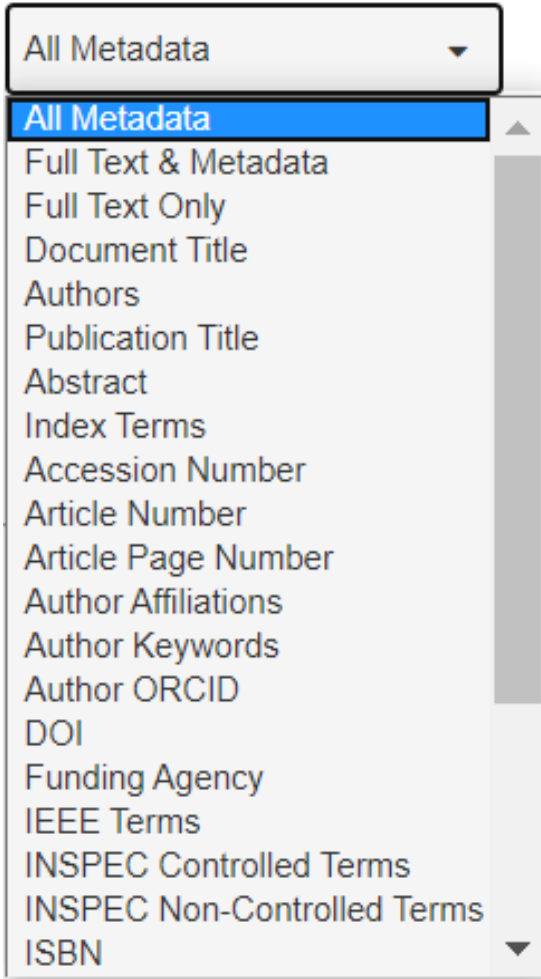


数据库地址

- ▶ IEEE所有文献均上载到 IEEE Xplore平台
- ▶ <https://ieeexplore.ieee.org>



元数据(Metadata)和全文(Full Text)数据, 及关键词匹配



- 元数据(Metadata)由各字段(Field)数据构成。
 - 文章题目, 摘要, 关键词, 作者, 出版日期, 等
- 全文数据(Full Text)由正文及其中的公式, 图表等构成。
- 通过关键词组合来表征一篇文档的技术特征。

Journals & Magazines > IEEE Photonics Technology Let... > Volume: 30 Issue: 4

On the Performance of MIMO-NOMA-Based Visible Light Communication Systems

Publisher: IEEE

Cite This

PDF



4 Author(s)

Chen Chen ; Wen-De Zhong; Helin Yang; Pengfei Du All Authors

33
Paper
Citations

5996
Full
Text Views



逻辑运算符(Operator)和检索逻辑表达式(Expression)

- 单个独立的检索逻辑的结构： (“数据域/字段”： 关键词)
- 检索逻辑表达式： (检索逻辑1) 运算符 (检索逻辑2)
- 运算符： AND/OR/NOT/NEAR/ONEAR
- 括号的使用 () ： 改变逻辑组合
- 举例：
 - mimo AND ("Authors": "Haykin S" OR "Authors": "Huber K")
 - mimo AND "Authors": "Haykin S" OR "Authors": "Huber K"

关键词匹配：单词，词组，及通配符(Wildcard)

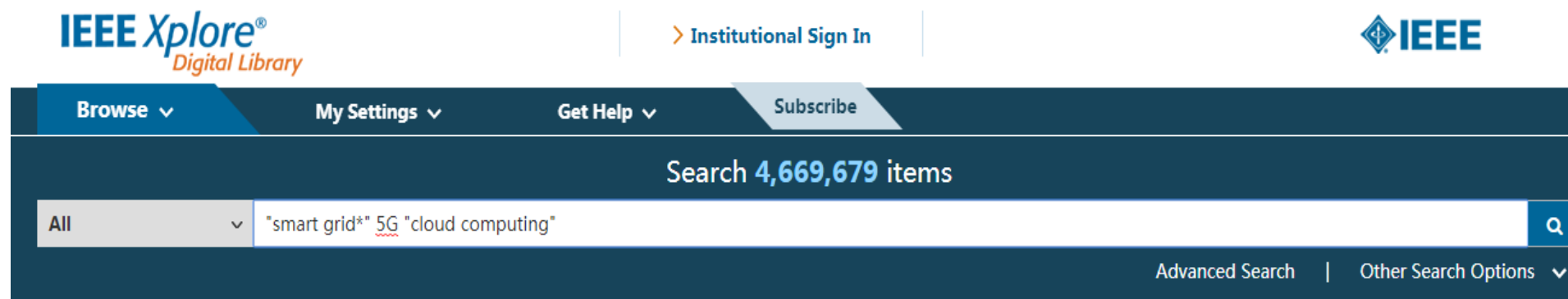
- 单词：不用担心单复数，动名词，时态，英式/美式的英语。
- 检索多个单词构成的词组需要在双引号""内。
 - Energy Internet ≠ "Energy Internet":
 - "Energy Internet": 精确匹配 "Energy Internet" 代表能源互联网。
搜索逻辑表达式: ("All Metadata" : "Energy Internet")
 - Energy Internet: 等效于同时检索到 (Energy AND Internet), 可以检索到大量关于计算中心的能耗的文章。
搜索逻辑表达式: ("All Metadata":Energy) AND ("All Metadata": Internet)
- 可以使用单字符(?)和多字符(*)通配符。
 - 双引号之内也可以使用通配符

Xplore数据库的可用性和使用Google/Baidu一样方便

IEEE Xplore三种检索方式

	Global Search	Advanced Search	Command Search
是否支持检索字段	支持所有检索字段, 需手动输入	支持所有检索字段	支持所有检索字段
是否支持检索符	AND/OR/NOT/NEAR/O NEAR	AND/OR/NOT	AND/OR/NOT/NEAR/O NEAR
是否支持括号嵌套	支持()限定优先顺序	不支持	支持()限定优先顺序
精确检索 (词组)	双引号 ""	双引号 ""	双引号 ""
模糊检索 (截词符)	* (多个字母) 或 ? (单个字母)	* (多个字母) 或 ? (单个字母)	* (多个字母) 或 ? (单个字母)
单个检索式单词数量限制 (以检索符为界)	15	15	15
整个检索式单词数量限制	40	40	40
单个检索式截词符数量限制	5	5	5

Global Search: 基本搜索入口



The screenshot shows the IEEE Xplore Digital Library search interface. At the top left is the logo "IEEE Xplore® Digital Library". To its right is a link for "Institutional Sign In". Further right is the IEEE logo. Below these are navigation links: "Browse", "My Settings", "Get Help", and "Subscribe". A search bar is prominently displayed with the text "Search 4,669,679 items". The search bar contains the query "smart grid*" and "5G" (underlined) "cloud computing". To the right of the search bar is a magnifying glass icon. Below the search bar are links for "Advanced Search" and "Other Search Options".

Advanced Search: 高级检索入口

Advanced Search [?](#)

Advanced Search | Command Search | Citation Search

Enter keywords, select fields, and select operators

Search Term in All Metadata [?](#)

AND OR NOT

AND Search Term in

AND Search Term in

Publication Year

- Documents Added Between: 03/11/2020 and
- Specify Year Range

All Metadata

All Metadata

Full Text & Metadata

Full Text Only

Document Title

Authors

Publication Title

Abstract

Index Terms

Accession Number

Article Number

Article Page Number

Author Affiliations

Author Keywords

Author ORCID

DOI

Funding Agency

IEEE Terms

↑ ×

↑ × +

检索执行顺序, 自上而下



Command Search: 命令检索入口

Document Title	Funding Agency
Authors	IEEE Terms
Publication Title	INSPEC Controlled Terms
Abstract	INSPEC Non-Controlled Terms
Index Terms	ISBN
Accession Number	ISSN
Article Number	Issue
Article Page Number	Mesh_Terms
Author Affiliations	Publication Number
Author Keywords	Standards Dictionary Terms
Author ORCID	Standards ICS Terms
DOI	Standard Number

Advanced Search

Command Search

Citation Search

Enter keywords, phrases, or a Boolean expression

Use the drop down lists to choose Data Fields and Operators.

[Learn how to use Boolean expressions in Command Search.](#)

Data Fields

Operators

Operators

AND

OR

NOT

NEAR

ONEAR

Operators need to be in all cap

Search Expression Examples

R/ONEAR. There is a maximum of 40 search terms.

Global Search: 检索逻辑表达式注意事项



一框式检索(Global Search)

1. 检索内容: metadata only
2. 检索词之间的默认关系: AND
ie. smart grid= smart AND grid
3. 支持命令检索:
ie. "Abstract":ofdm AND "Publication Title":communications
4. 精确检索使用双引号: 词组、固定搭配
ie. "java programming"
5. 自动获取词根: pluralized nouns, verb tenses, and British/American spelling variations
6. 检索词不区分大小写
7. 截词/模糊检索用 * (替代-N个字母) 或 ? (替代一个字母)
8. 自动建议



位置检索符优点: NEAR/ONEAR

The image shows two screenshots of the IEEE Xplore search interface. The top screenshot shows a search for "security AND 'cloud computing'" resulting in 11,506 results. A red arrow points to the number 11,506. The bottom screenshot shows a search for "security NEAR/5 'cloud computing'" resulting in 6,271 results. A red arrow points to the number 6,271. Both screenshots show a search bar with "All" selected, a search input field, and a "Search within results" field. The top screenshot also shows a "Show: All Results" dropdown and a "Per Page: 25" dropdown. The bottom screenshot shows a "Show: All" dropdown. The IEEE logo is visible in the bottom right corner.

All Enter keywords or phrases (Note: Searches metadata only by default. A search for 'smart grid' = 'smart AND grid')

Advanced Search

Search within results

Show: All Results | Per Page: 25 | Export

Displaying results **1-25** of **11,506** for **security AND "cloud computing"** x

- Conferences (9,816)
- Journals & Magazines (1,342)
- Early Access Articles (1)
- Books (86)
- Courses (41)
- Standards (1)


All Enter keywords or phrases (Note: Searches metadata only by default. A search for 'smart grid' = 'smart AND grid')

Search within results

Show: All Results

Displaying results **1-25** of **6,271** for **security NEAR/5 "cloud computing"** x


- Conferences (5,504)
- Journals & Magazines (644)
- Early Access Articles (55)
- Courses (13)



Xplore全文数据库渐进式搜索(Search)

- 渐进式:
 大领域→技术方向→技术分支→技术点
- 举例 1: Wireless→(4G OR LTE)→PDCCH
- 举例 2: Wireless→(5G OR NR)→MIMO
- 举例 3: Wireless→6G→Application

缩小检索范围：结果中搜索

feature extraction  Per Page: 25 | Export | Set Search Alerts | Search History


feature extraction

Displaying results 1-25 of 174,308 for "artificial intelligence" OR AI x





- Conferences (145,041)
- Journals & Magazines (28,031)
- Books (669)
- Early Access Articles (512)
- Standards (30)
- Courses (25)

Show

- All Results
- Open Access

Year 

Select All on Page Sort By: Relevance

- IEEE Draft Guide for the Use of Artificial Intelligence Exchange and Service Tie to All Test Environments (AI-ESTATE)** 
P1232.3/D3, May 2014
Year: 2014
Page s: 1 - 96
IEEE Standards
 Abstract  (856 Kb) 

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聚类分析：从不同角度了解本领域的研究状态

Search within results

Per Page: 25 | Export | Set Search Alerts | Search History

Displaying results 1-25 of 25,247 for "artificial intelligence" OR AI × feature extraction ×

- Conferences (20,667)
- Journals & Magazines (4,488)
- Early Access Articles (86)
- Courses (4)
- Books (2)

Show

- All Results
- Open Access

Year

Single Year | Range

1969 | 2019

From: 1969 To: 2019

Author

Enter Author

- Dacheng
- Shuicheng
- Xuelong L
- Jiwen Lu (
- Lei Zhang
- Ling Shao
- Wei Wang
- Jian Yang
- Gang War
- Nanning Z
- Wei Liu (4
- Xiaogang
- Lei Wang
- Wei Li (42,
- Licheng Jiao (39)

Affiliation

Enter Affiliation

- School of Elect Engineering, N University, Sing
- School of Com Nanyang Tech Singapore (45)
- Nanyang Tech Singapore (40)
- Department of Computer Eng University of S (37)
- National Labor Recognition, Ir Automation, C Sciences, Beijir
- Advanced Digi Singapore (25)

Publication Title

Enter Title

- IEEE Access (814)
- IEEE Transactions on Image Processing (455)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (383)
- 2018 IEEE/CVF Conference on Computer Vision and Pattern Recognition (221)
- IEEE Transactions on Multimedia (174)
- 2018 24th International Conference on Pattern Recognition (ICPR) (172)
- 2017 IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (171)


Sort By: Relevance

Personalised CNN

Manifold

Intelligence

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结果排序：寻找权威文章

All

Advanced Search | Other Search Options

Search within results Per Page: 25 | Export | Set Search Alerts | Search History

Displaying results 1-25 of 25,247 for "artificial intelligence" OR AI feature extraction

Conferences (20,667) Journals & Magazines (4,488) Early Access Articles (86)
 Courses (4) Books (2)

Show

All Results
 Open Access

Year

Single Year

1969

From To

Select All on Page

Gender estimation based on supervised HOG, Action Units and feature extraction
Mohammad Javidan Darugar ; Loo Chu Kiong
2017 Artificial Intelligence and Robotics (IRANOPEN)
Year: 2017
Page s: 23 - 27
Cited by: Papers (1)
IEEE Conferences


A New Two-Directional Two-Dimensional Feature Extraction Based on Manifold Learning

Sort By: **Relevance**

- Relevance
- Newest First
- Oldest First
- Most Cited [By Papers]**
- Most Cited [By Patents]
- Publication Title A-Z
- Publication Title Z-A

高被引文献

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查看文摘页面：详细阅读一篇文章

Security and Privacy Challenges in Cloud Computing Environments

Hassan Takabi; James B. D. Joshi; Gail-Joon Ahn

IEEE Security & Privacy

Year: 2010, Volume: 8, Issue: 6

Pages: 24 - 31, DOI: 10.1109/MSP.2010.186

Cited by: Papers (317) | Patents (2)

IEEE Journals & Magazines

► Abstract ((html)) PDF (1140 Kb) ©

Privacy-Preserving Public Auditing for Data Storage Security in Cloud Computing

Cong Wang; Qian Wang; Kui Ren; Wenjing Lou

2010 Proceedings IEEE INFOCOM

Year: 2010

Pages: 1 - 9, DOI: 10.1109/INFOCOM.2010.54621

Cited by: Papers (271) | Patents (2)

IEEE Conference Publications

► Abstract ((html)) PDF (278 Kb) ©



Browse Conferences > INFOCOM, 2010 Proceedings IEEE

< Previous | Back to Results | Next >

Privacy-Preserving Public Auditing for Data Storage Security in Cloud Computing

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294
Paper
Citations

2
Patent
Citations

14366
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Text Views

Related Articles

Technology challenges for building Internet-scale ubiquitous computing

Role-based access control for CORBA distributed object systems

Jini meets embedded control networking: a case study in portability failure

View All

4

Author(s)

▼ Cong Wang ; ▼ Qian Wang ; ▼ Kui Ren ; ▼ Wenjing Lou

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Abstract

Authors

Figures

References

Citations

Keywords

Metrics

Media

Abstract:

Cloud Computing is the long dreamed vision of computing as a utility, where users can remotely store their data into the cloud so as to enjoy the on-demand high quality applications and services from a shared pool of configurable computing resources. By data outsourcing, users can be relieved from the burden of local data storage and maintenance. However, the fact that users no longer have physical possession of the possibly large size of outsourced data makes the data integrity protection in Cloud Computing a very challenging and potentially formidable task, especially for users with constrained



文摘页面：摘要

Journals & Magazines > IEEE Transactions on Pattern ... > Volume: 39 Issue: 6

Faster R-CNN: Towards Real-Time Object Detection with Region Proposal Networks

4 Author(s) Shaoqing Ren ; Kaiming He  ; Ross Girshick ; Jian Sun [View All Authors](#)

1020
Paper
Citations

27723
Full
Text Views



Abstract

Document Sections

- 1 Introduction
- 2 Related Work
- 3 Faster R-CNN
- 4 Experiments
- 5 Conclusion

Authors

Figures

References

Abstract:

State-of-the-art object detection networks depend on region proposal algorithms to hypothesize object locations. Advances like SPPnet [1] and Fast R-CNN [2] have reduced the running time of these detection networks, exposing region proposal computation as a bottleneck. In this work, we introduce a Region Proposal Network(RPN) that shares full-image convolutional features with the detection network, thus enabling nearly cost-free region proposals. An RPN is a fully convolutional network that simultaneously predicts object bounds and objectness scores at each position. The RPN is trained end-to-end to generate high-quality region proposals, which are used by Fast R-CNN for detection. We further merge RPN and Fast R-CNN into a single network by sharing their convolutional features-using the recently popular terminology of neural networks with 'attention' mechanisms, the RPN component tells the unified network where to look. For the very deep VGG-16 model [3], our detection system has a frame rate of 5 fps (including all steps) on a GPU, while achieving state-of-the-art object detection accuracy on PASCAL VOC 2007, 2012, and MS COCO datasets with only 300 proposals per image. In ILSVRC and COCO 2015 competitions, Faster R-CNN and RPN are the foundations of the 1st-place winning entries in several tracks. Code has been made publicly available.

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Speedup of Learning in Interval Type-2 Neural Fuzzy Systems Through Graphic Processing Units
IEEE Transactions on Fuzzy Systems
Published: 2015

moDNN: Memory Optimal Deep Neural Network Training on Graphics Processing Units
IEEE Transactions on Parallel and Distributed Systems
Published: 2019

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Publication Topics
object detection, neural nets, image segmentation, learning (artificial intelligence), feature extraction, image classification, object recognition, computer vision, image annotation, pose estimation

Publications 23
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Kaiming He received his Ph.D. from the Chinese University of Hong Kong, Asia. He joined Microsoft Research for visual learning for visual segmentation. He



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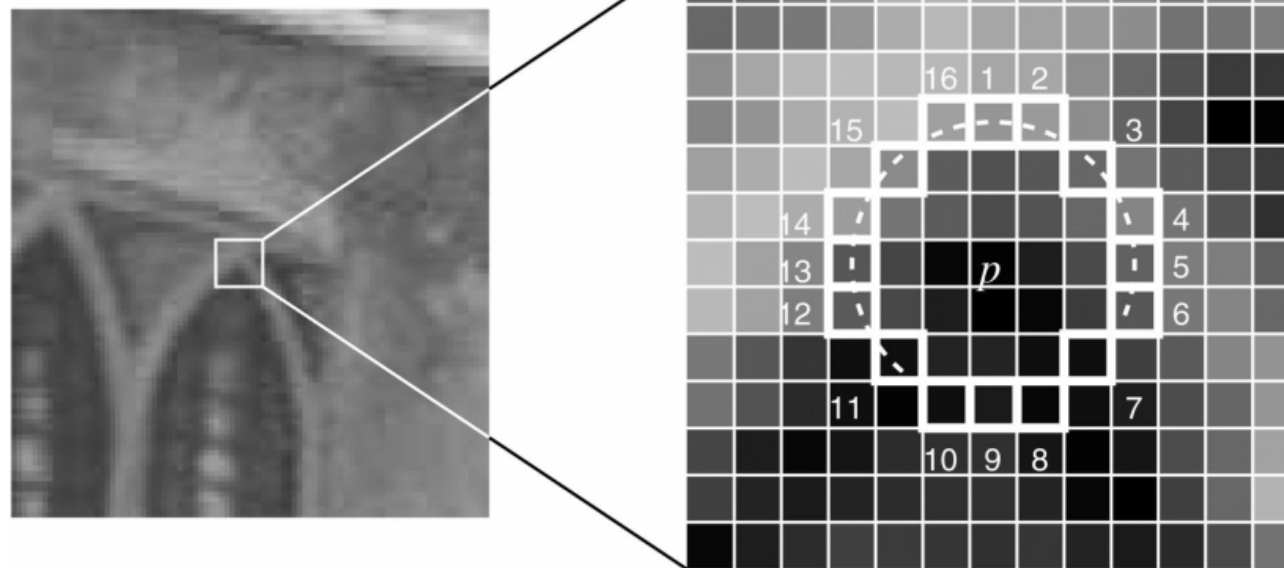
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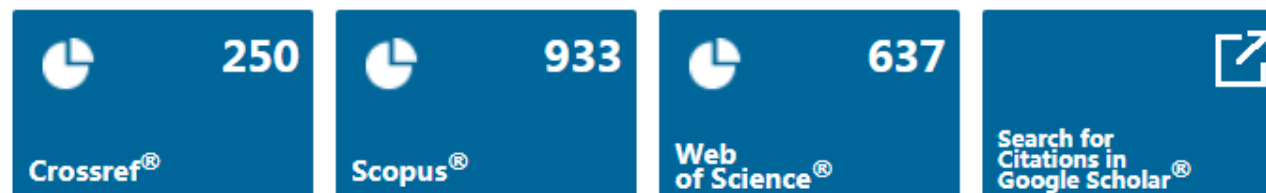
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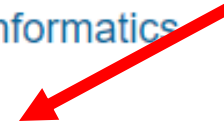


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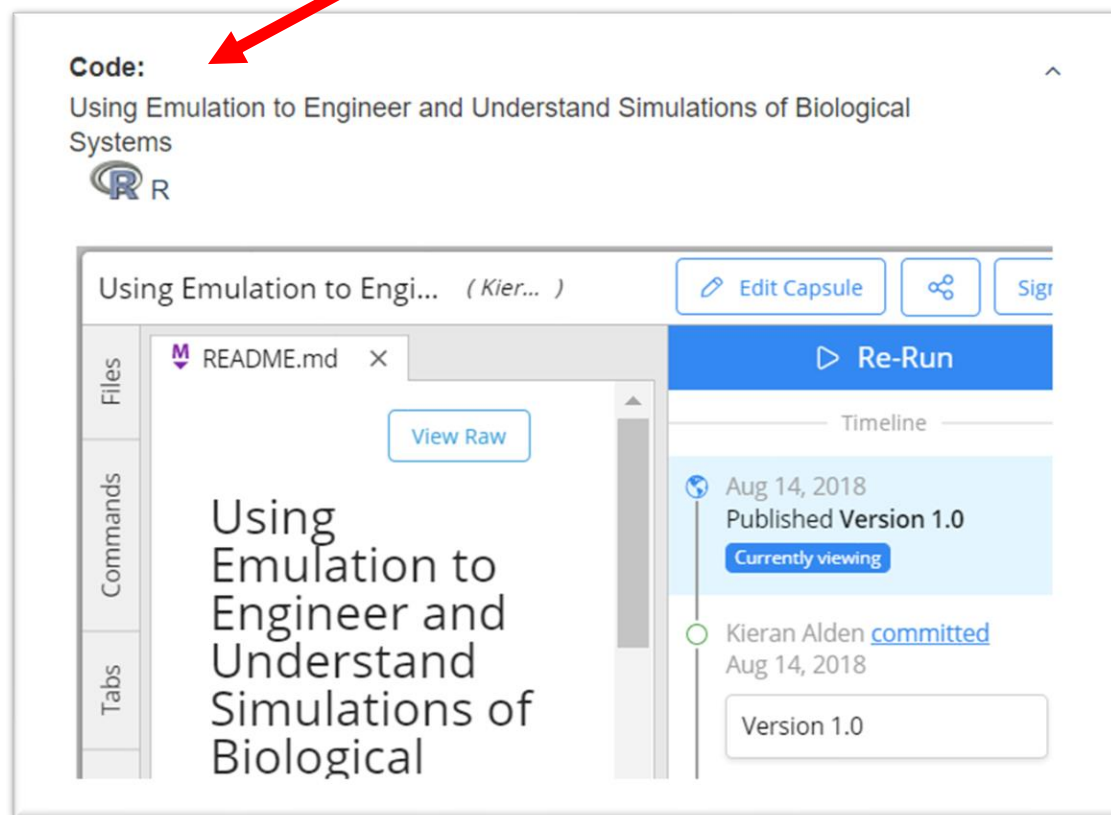


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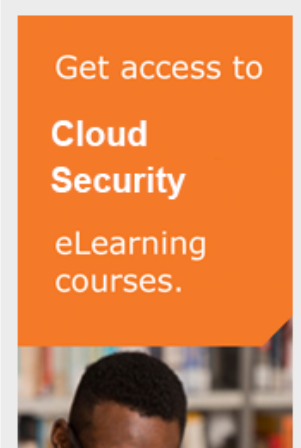
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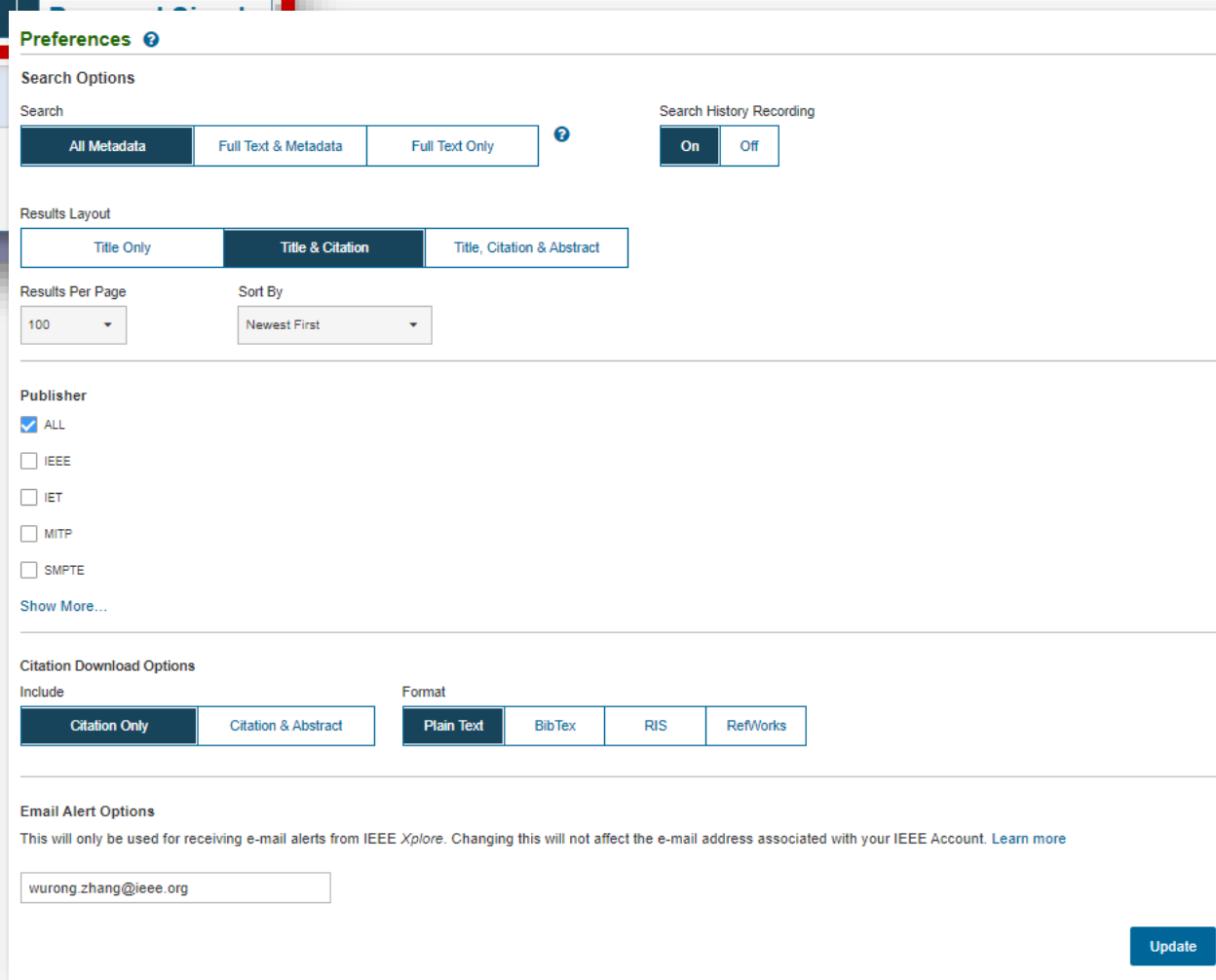
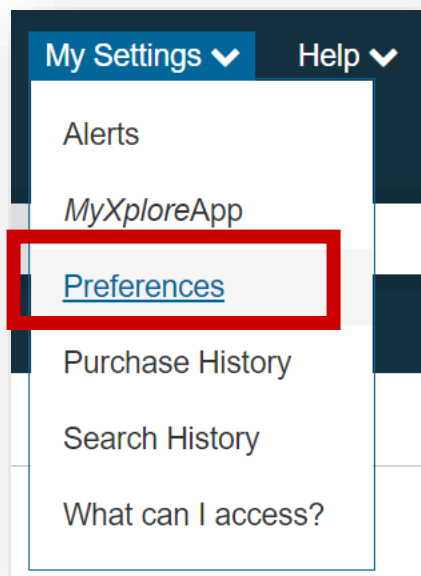
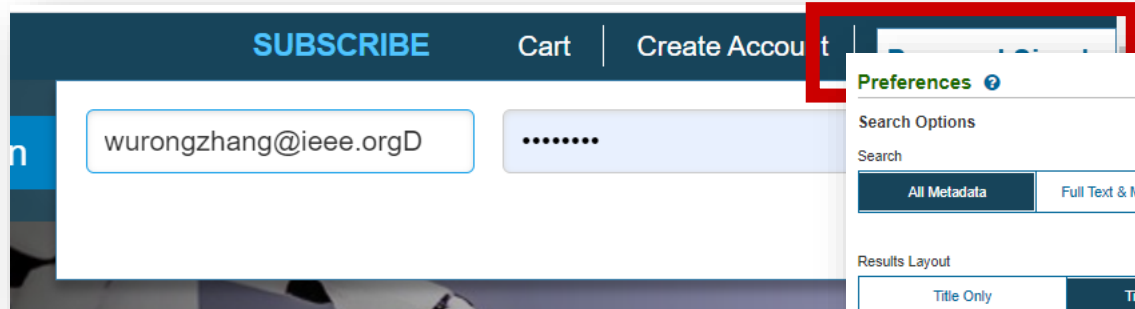
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Susan Matson, curriculum specialist, has over 35 combined years of teaching and curriculum development related to ESL learning. She was a Teaching Fellow for the U.S. Department of State in Eastern Europe as well as national Director of Curriculum for a multi-site Intensive English Program in the U.S. Her teaching experience has included working professionals as well as university-bound non-native speakers of English in multiple settings. She received her M.S. in Education from Johns Hopkins University and ESL Certification from American University in Washington, DC. [Show Less](#)

Instructor Traci Nathans-Kelly

Traci Nathans-Kelly, PhD, currently teaches in Cornell University's College of Engineering in the Engineering Communications Program. Previously, she worked at the University of Wisconsin-Madison's College of Engineering in the Technical Communication program (2000-2014). She teaches technical/engineering communication, technical/engineering presentations, technical editing, writing user manuals, and other topics. She also served Wiley-IEEE Press as the series editor for the Engineering Professional Communication line and as the IEEE Press Liaison for the IEEE Professional

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