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IEEE學會介紹

The Institute of Electrical and Electronics Engineers

電機電子工程師學會

IEEE 簡介

- 非營利組織，全球最大的技術學會之一，成員遍佈160多個國家地區，會員超過42萬人

- 核心運作方式:
  IEEE會員、舉辦研討會、
  制定標準、出版期刊、會議論文、標準、電子書及線上課程

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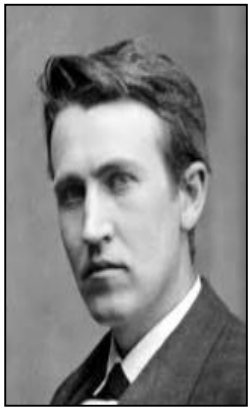
IEEE 能源領域學者 RazanGafbin 在薩爾瓦多從事淨水專案

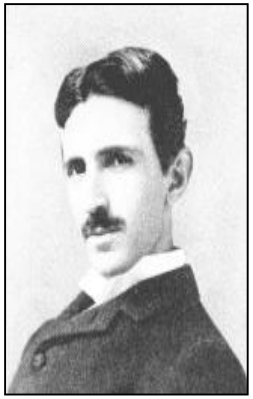
IEEE智慧村計劃幫助撒哈拉以南的非洲村莊

IEEE 的起源



Thomas Edison

Alexander Graham Bell



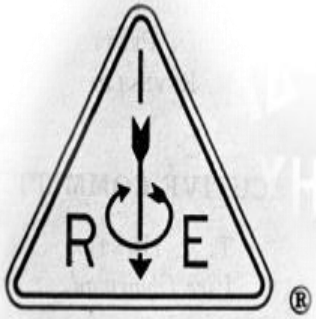
Nikola Tesla

Landmark exhibition at Franklin Inst. in Philadelphia, the American Institute of Electrical Engineers held its first conference on 7–8 Oct. 1884. This was the first formal technical conference on electrical engineering held in the U.S.

IEEE 學會組織演進

1884 — 1912 — 1963 — Present

AIEE
American Institute
of Electrical Engineers



IRE
Institute of Radio
Engineers

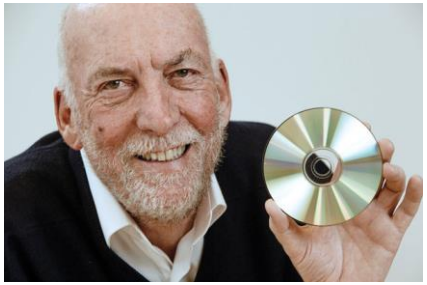
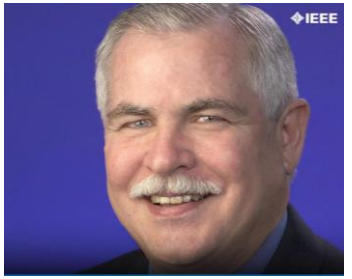
AIEE and IRE merged to become the Institute of Electrical and Electronics Engineers, or **IEEE**.

Thomas Edison, Alexander Graham Bell, and other notables founded the **American Institute of Electrical Engineers**.

Pioneers of wireless technologies and electronics founded the more internationally focused **Institute of Radio Engineers**.

當今科技領域頂尖學者的卓越成就皆仰賴IEEE文獻

IEEE 榮譽徽章獲獎者：

2016	2017	2018	2019
G. David Forney, Jr. **戴夫·福尼** 主要以對電信系統論，特別是編碼理論和資訊理論的研究而知名。	**Kees Schouhamer Immink** 基斯·伊明克 開創了數字音頻，視頻和數據記錄的時代，包括CD，DVD和Blu-ray Disc等儲存媒體。	**Bradford W. Parkinson** 布拉德福德·帕金森 GPS全球定位系統的研究先驅	**Kurt E. Petersen** **庫特·彼德森** 美國國家工程院的成員。他主要因其在微機電系統上的工作而聞名。
			

39個專業分會

IEEE Societies

- IEEE Aerospace and Electronic Systems Society
- IEEE Antennas and Propagation Society
- IEEE Broadcast Technology Society
- IEEE Circuits and Systems Society
- IEEE Communications Society
- IEEE Computational Intelligence Society
- IEEE Computer Society
- IEEE Consumer Electronics Society
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- IEEE Dielectri
- IEEE Educatio
- IEEE Electron
- IEEE Electron
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- IEEE Engineer
  Society
- IEEE Geoscience and Remote Sensing Society
- IEEE Industrial Electronics Society
- IEEE Industry Applications Society
- IEEE Information Theory Society
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- 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 & Energy Society
- IEEE Product Safety Engineering Society
- IEEE Systems, Man, and Cybernetics Society
- IEEE Technology and Engineering Management Society
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
- IEEE Vehicular Technology Society

IEEE 涵蓋各個科技領域

More than just electrical engineering & computer science

- Aerospace & Defense
- Automotive Engineering
- Biomedical Engineering
- Biometrics
- Circuits & Systems
- Cloud Computing
- Communications
- Computer Software
- Electronics
- Energy
- Engineering
- Imaging
- Information Technology
- Medical Devices
- Nanotechnology
- Optics
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- Robotics & Automation
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- Wireless Broadband

and many more

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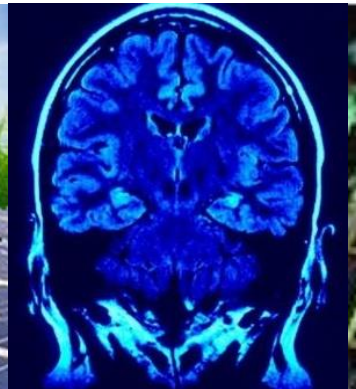


期刊引用率以IEEE文獻佔比最多

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IEEE publishes:

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- **9 of the top 10** journals in **Telecommunications**
- **The top 5** journals in **Automation and Control Systems**
- **8 of the top 10** journals in **Computer Science, Artificial Intelligence**
- **4 of the top 5** journals in **Computer Science, Hardware & Architecture**
- **The top 3** journals in **Computer Science, Cybernetics**
- **3 of the top 5** journals in **Computer Science, Information Systems**
- **2 of the top 5** journals in **Robotics**
- **3 of the top 5** journals in **Imaging Science and Photographic Technology**

Source: . Journal Citation (Clarivate Analytics, June 2021)

Each year, the Journal Citation Reports® (JCR) from Web of Science Group examines the influence and impact of scholarly research journals. JCR reveals the relationship between citing and cited journals, offering a systematic, objective means to evaluate the world's leading journals.

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IEEE 文獻在各領域影響甚鉅

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IEEE journals are:

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- **# 1** in Automation and Control Systems
- **# 1** in Cybernetics
- **# 1** in Hardware & Architecture
- **# 1** in Imaging Science & Photographic Technology
- **# 1** in Information Systems
- **# 1** in Instruments and Instrumentation
- **# 1** in Medical Informatics
- **# 1** in Remote Sensing
- **# 1** in Telecommunications
- **# 2** in Electrical & Electronic Engineering

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

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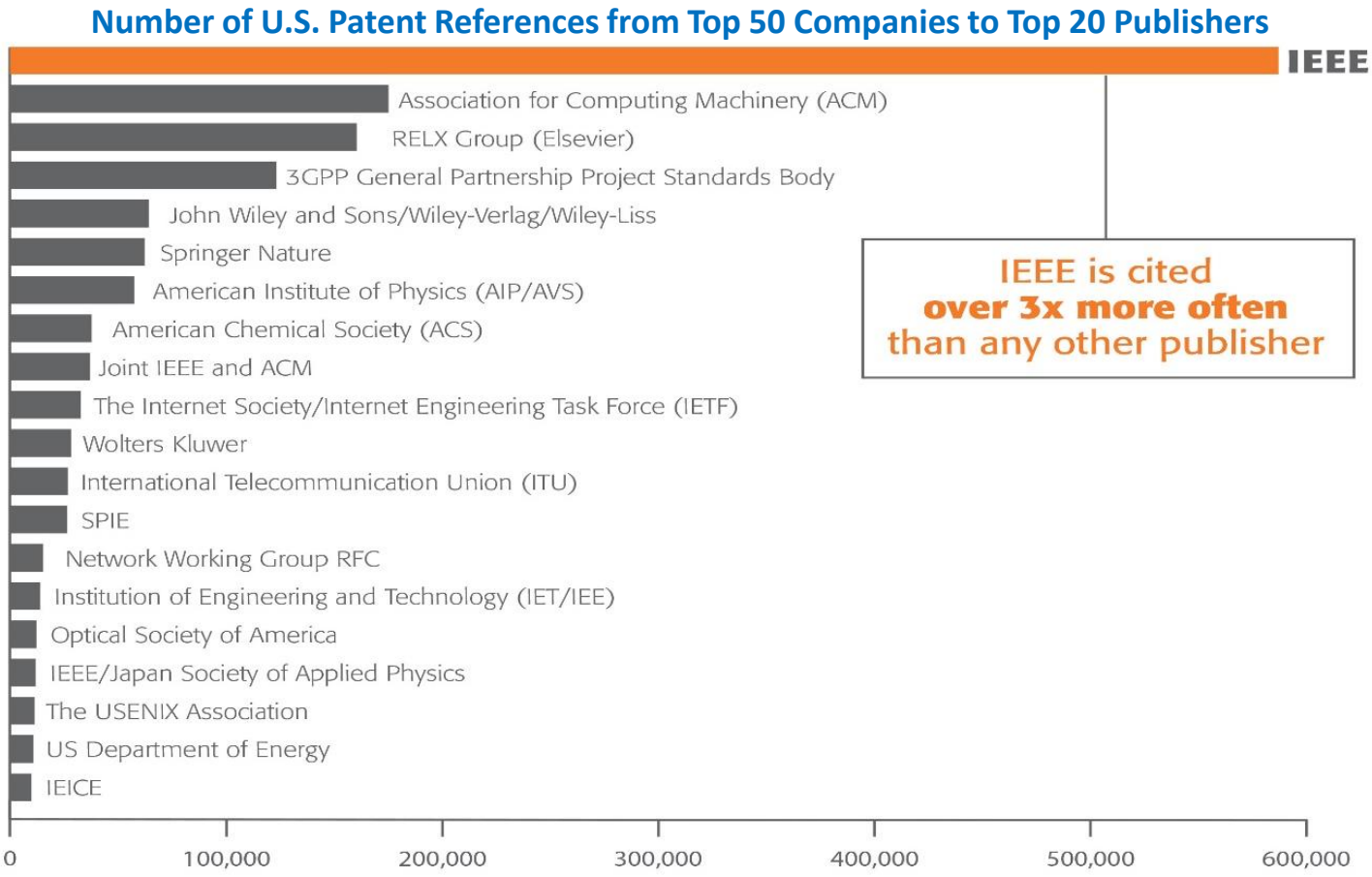
IEEE 在人工智慧、自動駕駛汽車和物聯網相關專利中位居主導地位



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- IEEE 標準協會 IEEE-SA
- 標準制定內容包含試驗方法、符號、定義以及測試方法等領域。
- 常見標準:

  IEEE 802.1——High Level Interface(Internetworking)

  IEEE 802.1d——生成樹協議

  IEEE 802.1p——General Registration Protocol

  IEEE 802.1q——虛擬區域網 等等...

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首頁總覽(I) NEW

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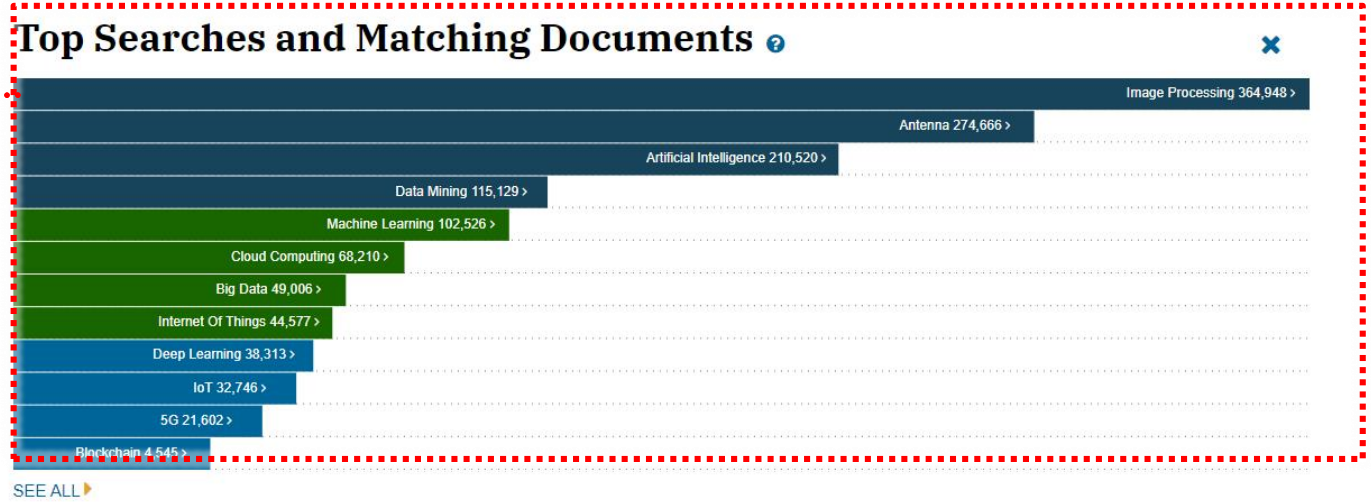

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Children May Trust Robots More Than Human Physical Therapists

4 Sep 2019

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26 June 2019

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11 DEC	2019 IEEE 58th Conference on Decision and Control (CDC)	REGISTER 11-13 DECEMBER 2019 | NICE, FRANCE
18 JAN	IEEE International Conference on Micro Electro Mechanical Systems	REGISTER 18-22 JANUARY 2020 | VANCOUVER, BRITISH COLUMBIA, CANADA
8 MAR	2020 Optical Fiber Communications Conference and Exhibition (OFC)	REGISTER 8-12 MARCH 2020 | SAN DIEGO, USA

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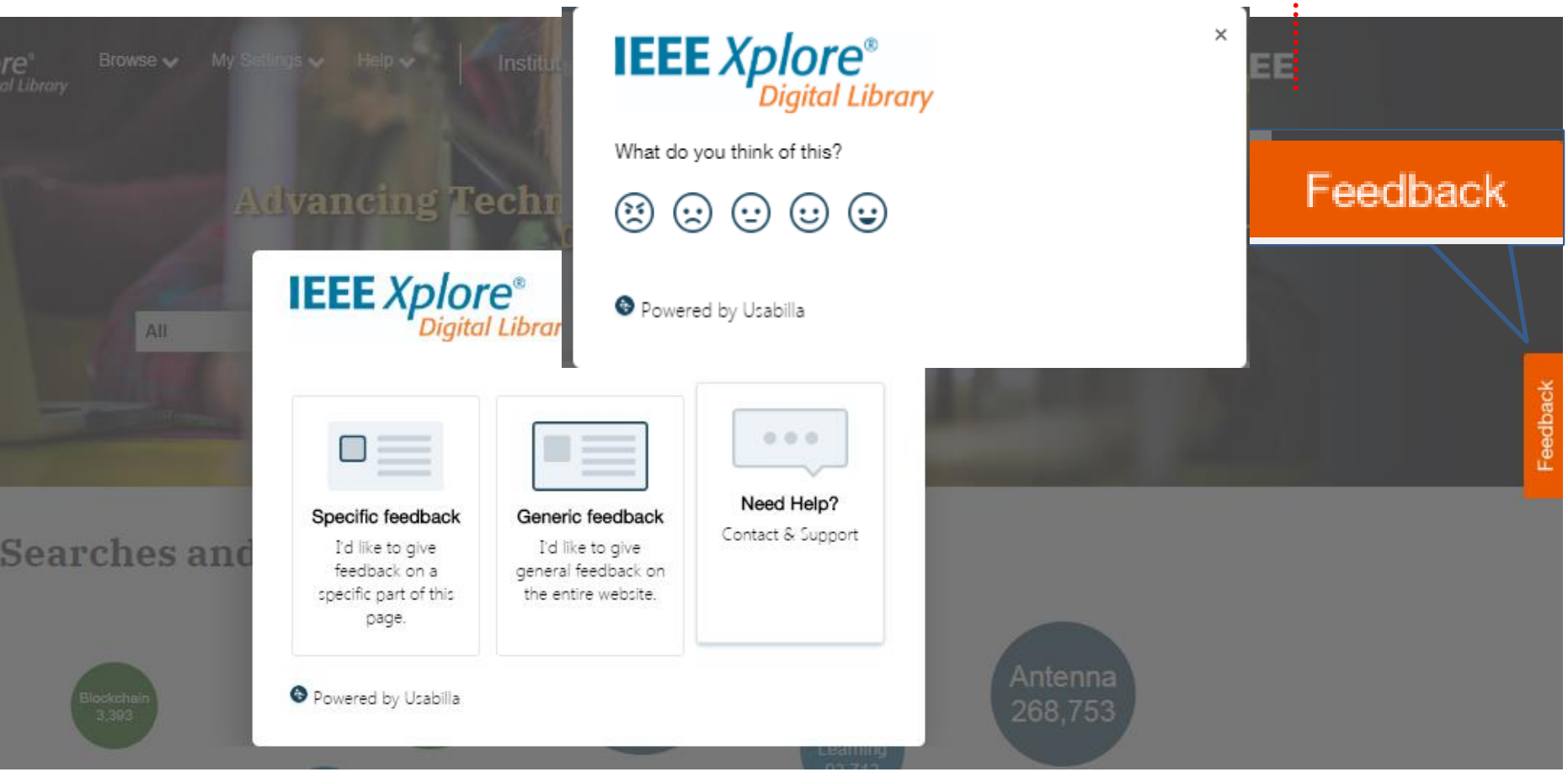

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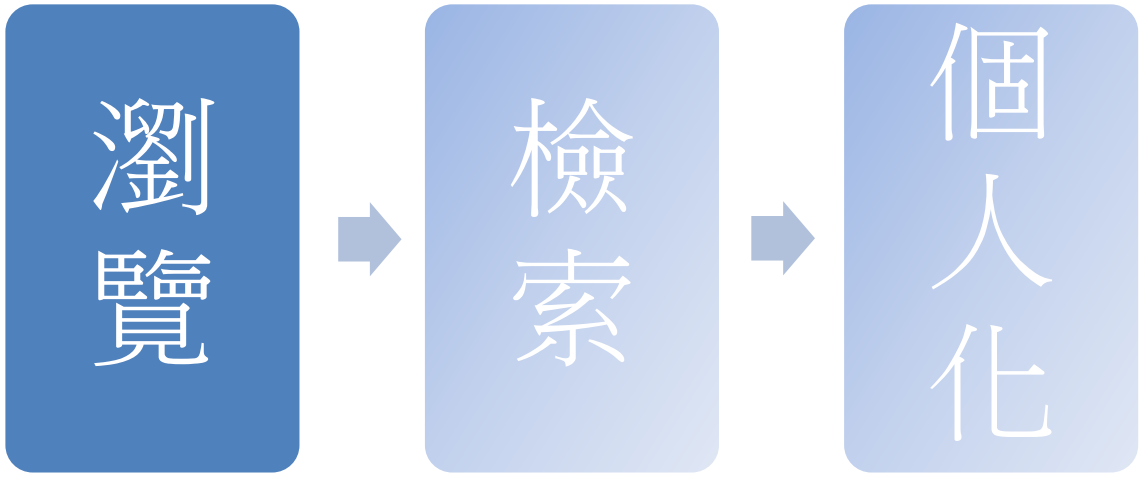

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d) 期刊雜誌
e) 技術標準

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1. 期刊雜誌瀏覽

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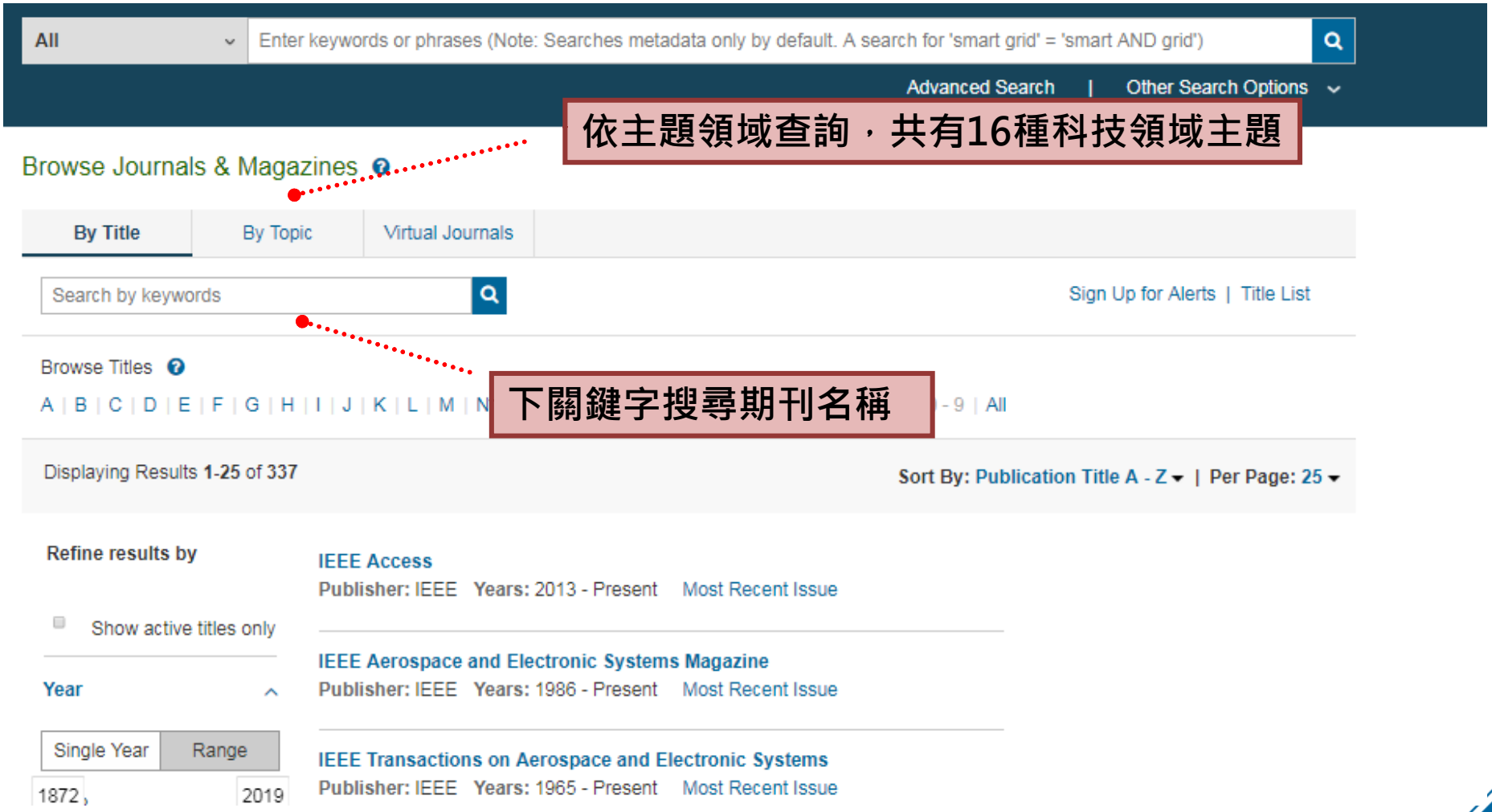

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View Title History

Aims & Scope

發行主旨

As currently defined, IEEE Network covers the following areas: 1. network protocols and architectures, 2. Protocol design and validation, 3. Communication software and its development and test, 4. Network control and signalling, 5. network management, 6. Practical network implementations including local area networks, (LANs), metropolitan area networks (MANs), and wide area networks, (WANs), 7. Switching and processing in integrated (voice/data) networks and network components, 8. Micro-to-host communication.

Publication Details

- IEEE Network Magazine

Frequency: 6

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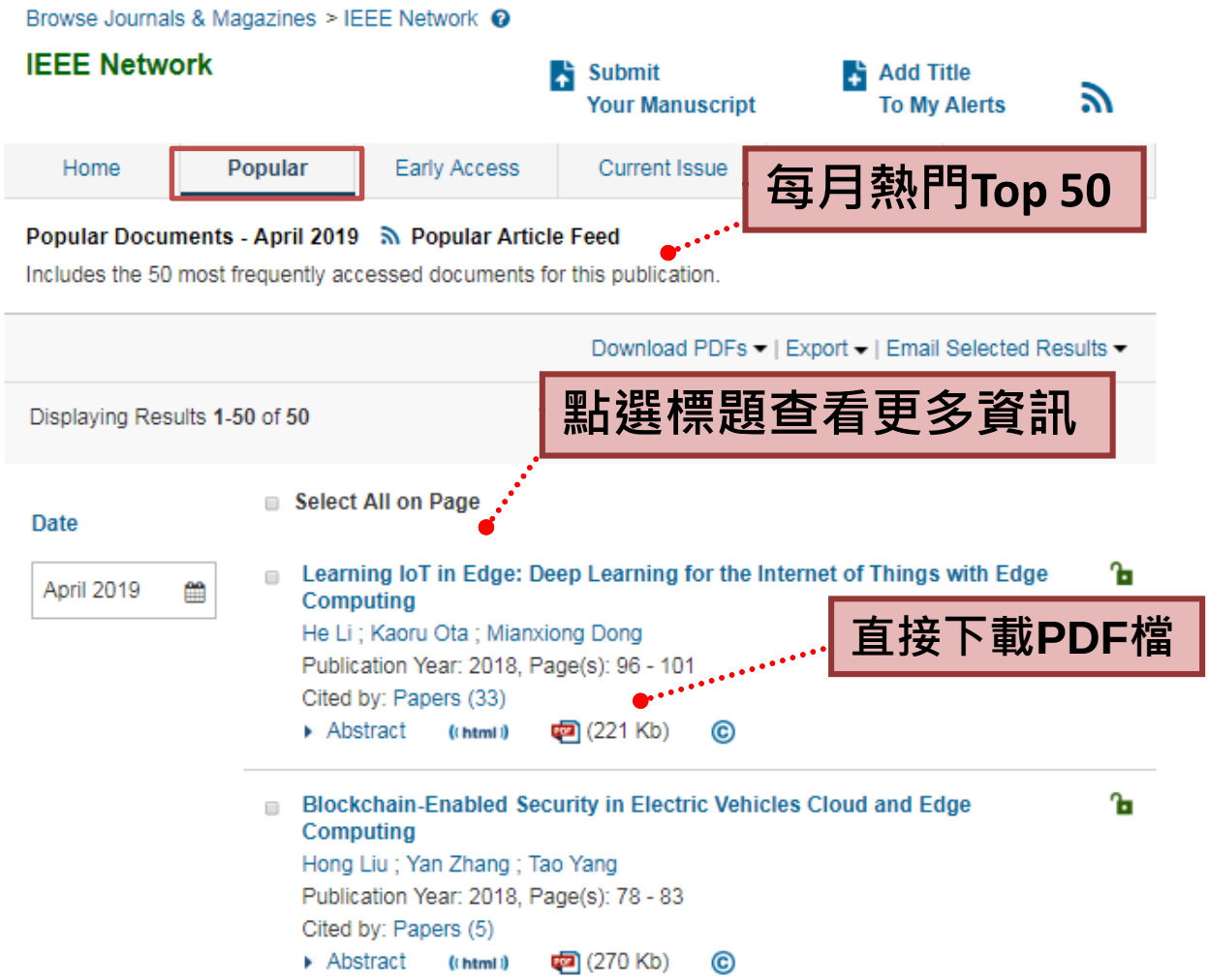
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Date
April 2019
Learning IoT in Edge: Deep Learning for the Internet of Things with Edge Computing
He Li ; Kaoru Ota ; Mianxiong Dong
Publication Year: 2018, Page(s): 96 - 101
Cited by: Papers (33)
Abstract
(221 Kb)
直接下載PDF檔
Blockchain-Enabled Security in Electric Vehicles Cloud and Edge Computing
Hong Liu ; Yan Zhang ; Tao Yang
Publication Year: 2018, Page(s): 78 - 83
Cited by: Papers (5)
Abstract
(270 Kb)

期刊瀏覽-單篇文獻介紹

Journals & Magazines > IEEE Network > Volume: 32 Issue: 1

Learning IoT in Edge: Deep Learning for the Internet of Things with Edge Computing

文章標題

3 Author(s) He Li ; Kaoru Ota ; Mianxiong Dong View All Authors

33 Paper Citations | 10510 Full Text Views

文章摘要

Abstract

Document Sections

1. Introduction
2. Related Work
3. Deep Learning for IoT in Edge Computing
4. Scheduling Problem and Solution
5. Performance Evaluation

Abstract:
Deep learning is a promising approach for extracting accurate information from raw sensor data from IoT devices deployed in complex environments. Because of its multilayer structure, deep learning is also appropriate for the edge computing environment. Therefore, in this article, we first introduce deep learning for IoTs into the edge computing environment. Since existing edge nodes have limited processing capability, we also design a novel offloading strategy to optimize the performance of IoT deep learning applications with edge computing. In the performance evaluation, we test the performance of executing multiple deep learning tasks in an edge computing environment with our strategy. The evaluation results show that our method outperforms other optimization solutions on deep learning for IoT.

Published in: IEEE Network (Volume: 32 , Issue: 1 , Jan.-Feb. 2018)

Page(s): 96 - 101

INSPEC Accession Number: 17524460

關聯文獻

More Like This

Internet of Things and Edge Cloud Computing Roadmap for Manufacturing
IEEE Cloud Computing
Published: 2016

Internet of Things Monitoring System of Modern Eco-Agriculture Based on Cloud Computing
IEEE Access
Published: 2019

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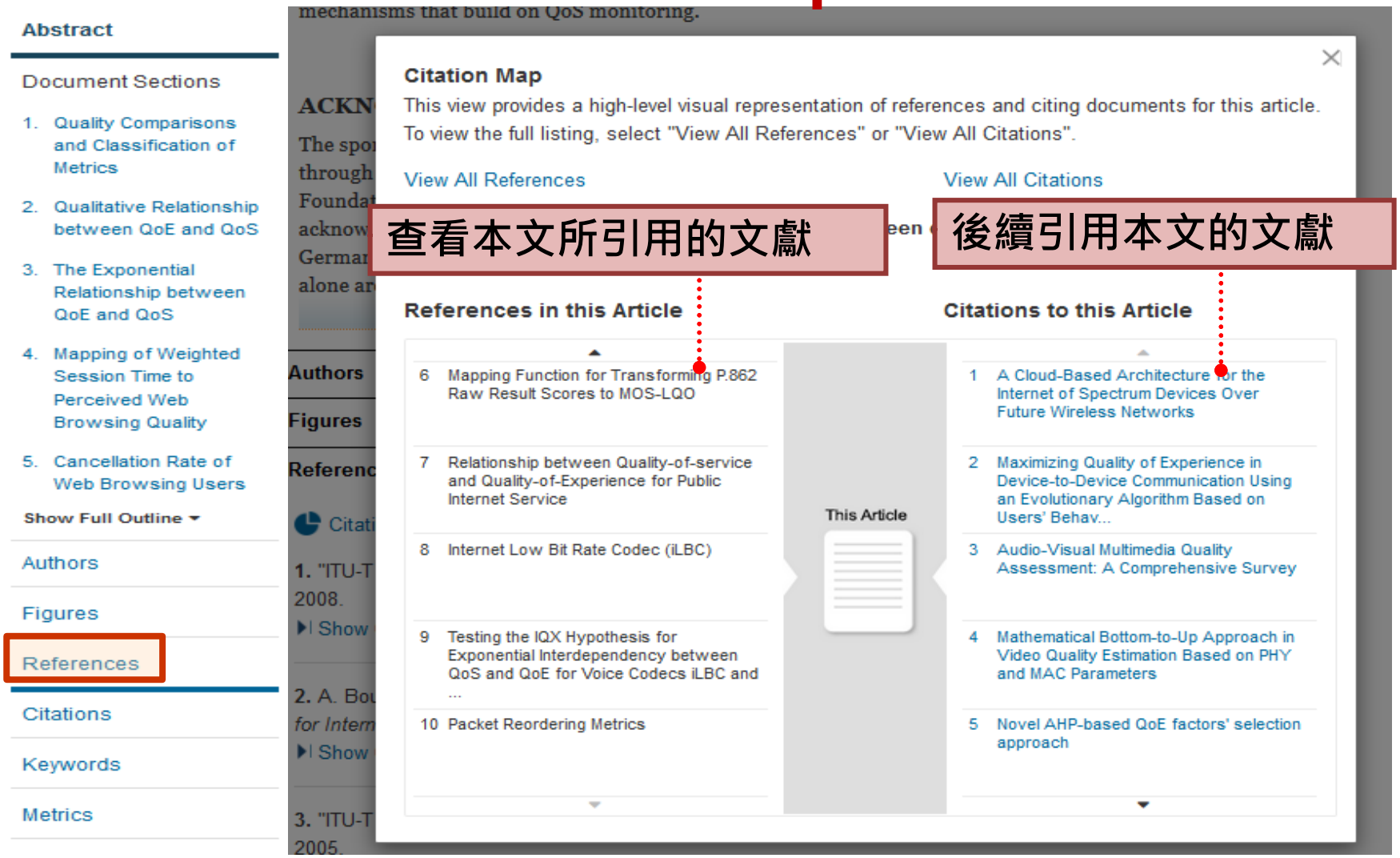
期刊雜誌瀏覽-Citation Map



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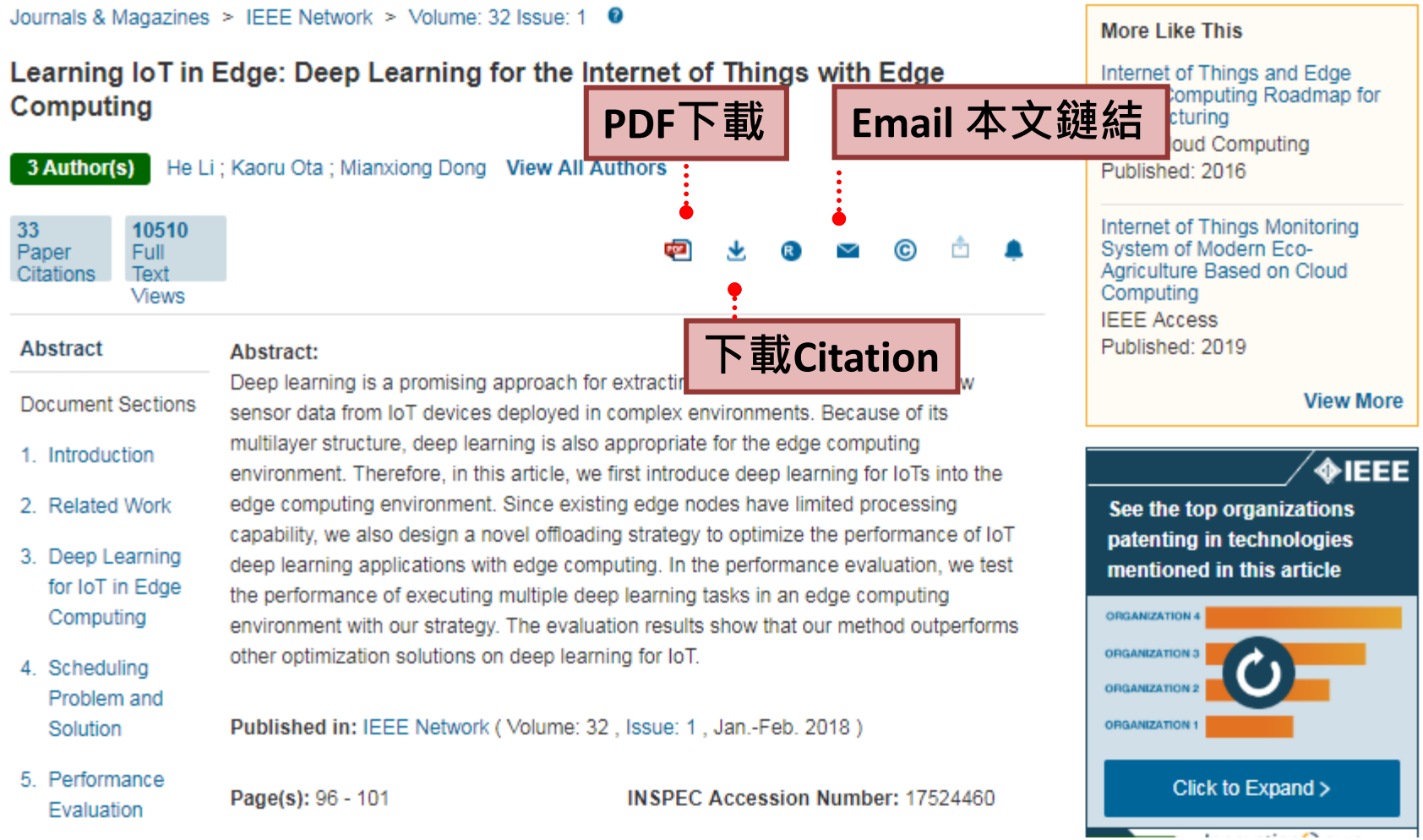

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2. 會議論文瀏覽

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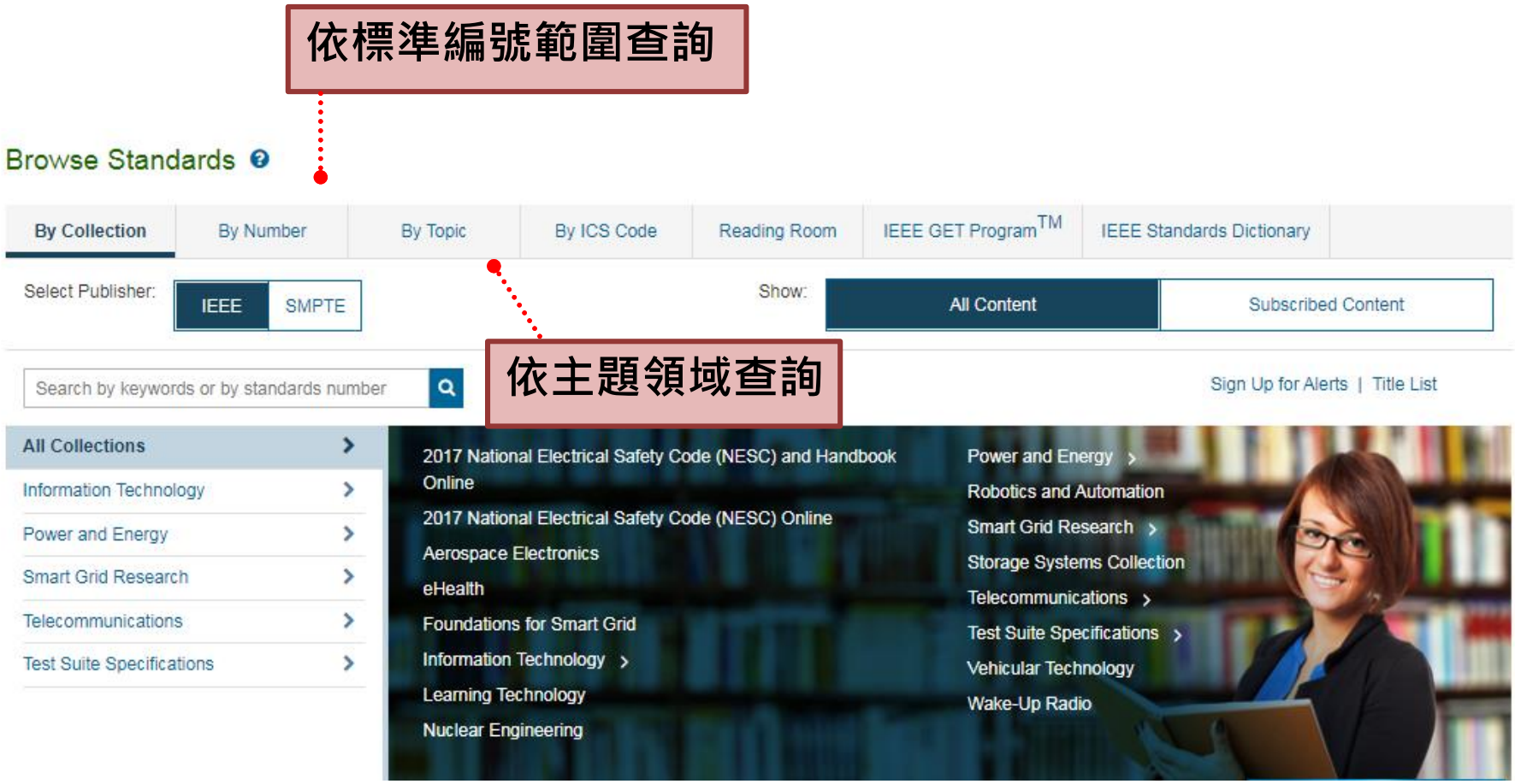
3. 標準瀏覽



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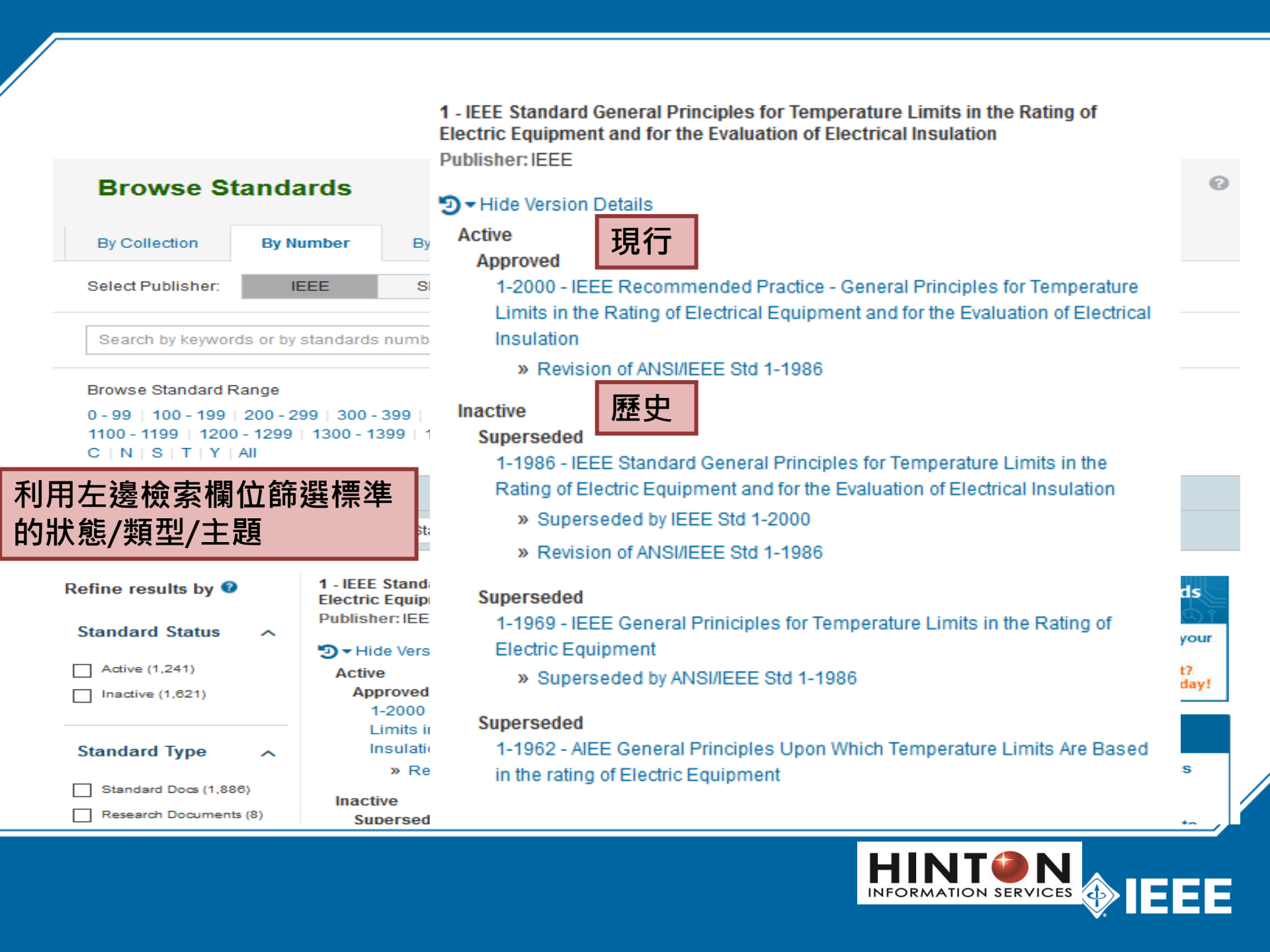

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HTML 全文瀏覽(A)

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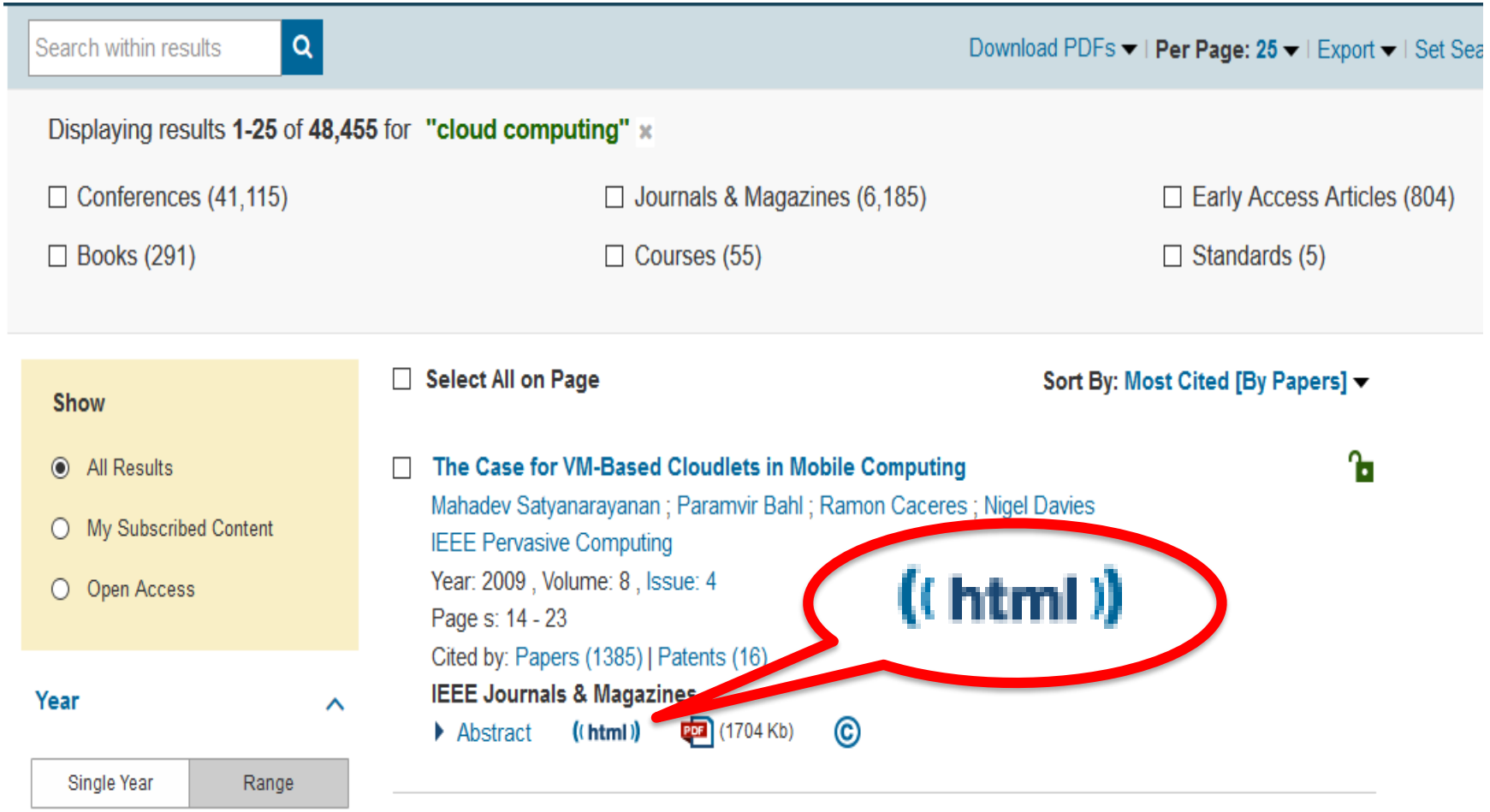

HTML 全文瀏覽(B)

Abstract文摘頁面

Cloud Computing for Mobile Users: Can Offloading Computation Save Energy?

2 Author(s) Karthik Kumar ; Yung-Hsiang Lu View All Authors

720 Paper Citations | 6 Patent Citations | 12157 Full Text Views

快速掌握全文關鍵

Abstract

Document Sections

1. Saving Energy for Mobile Systems
2. Challenges and Possible Solutions

Authors

Figures

References

Citations

Keywords

Metrics

Abstract:
The cloud heralds a new era of computing where application services are provided through the Internet. Cloud computing can enhance the computing capability of mobile systems, but is it the ultimate solution for extending such systems' battery lifetimes?

Published in: Computer (Volume: 43 , Issue: 4 , April 2010)

Page(s): 51 - 56

INSPEC Accession Number: 11228200

Date of Publication: 08 April 2010

DOI: 10.1109/MC.2010.98

ISSN Information:

Publisher: IEEE

利用左方列表跳轉至作者、圖像公式、引用/被引用文獻等資訊

瀏覽操作練習

請試著查詢IEEE期刊 IEEE Network 近期熱門文獻

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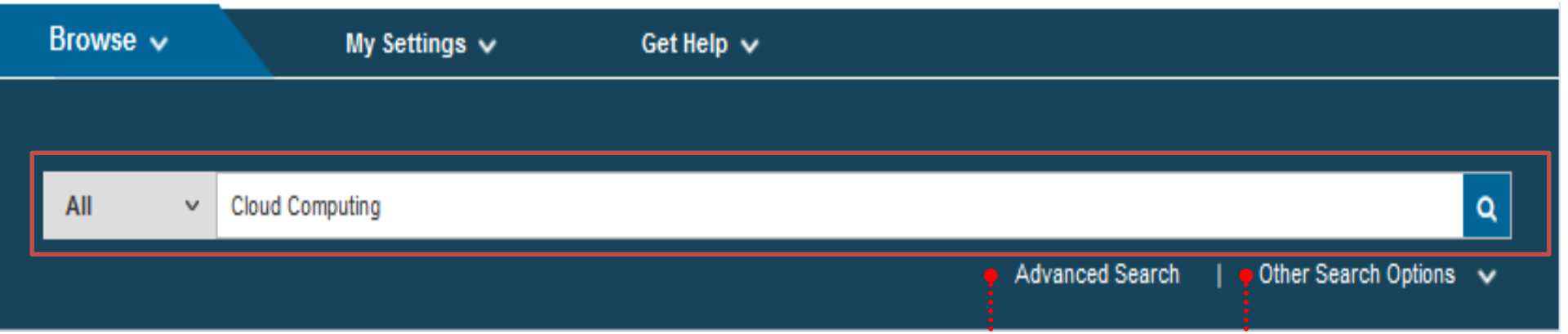
基本檢索Basic Search工具列



進階檢索　其他檢索

基本檢索Basic Search-更精確的檢索結果

1.直接輸入關鍵字
2.關鍵字輸入引號更加精確
3.可輸入布林邏輯指令
AND、OR、NOT

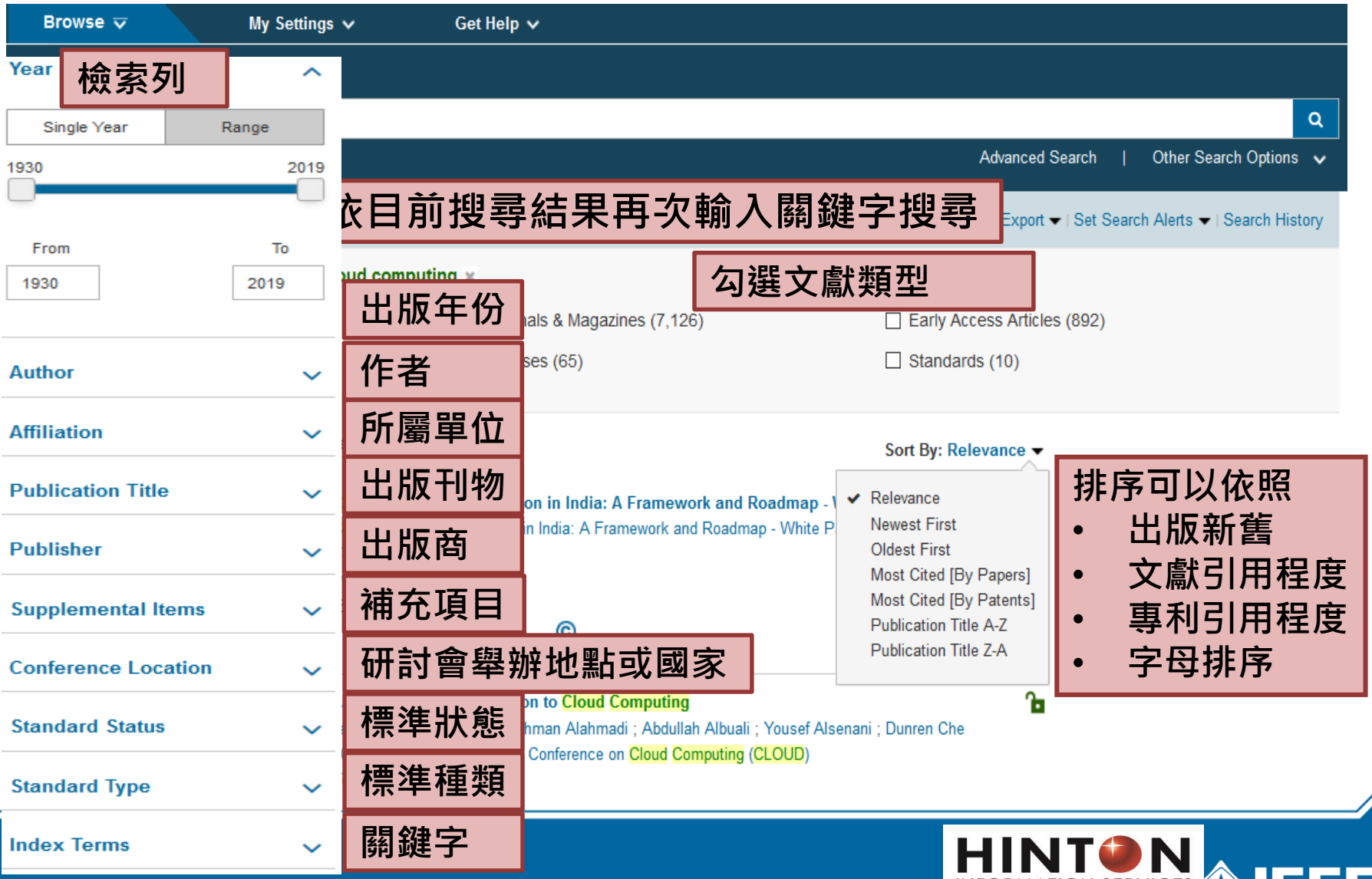
未使用引號:cloud computing

C-Cloud: A Cost-Efficient Reliable Cloud of Surplus Computing Resources
Partha Dutta ; Tridib Mukherjee ; Vinay Gangadhar Hegde ; Sujit Gujar
2014 IEEE 7th International Conference on Cloud Computing

使用引號:”cloud computing”

A "No Data Center" Solution to Cloud Computing
Tessema Mengistu ; Abdulrahman Alahmadi ; Abdullah Albuali ; Yousef Alsenani ; Dunren Che
2017 IEEE 10th International Conference on Cloud Computing (CLOUD)

Basic Search 基本檢索



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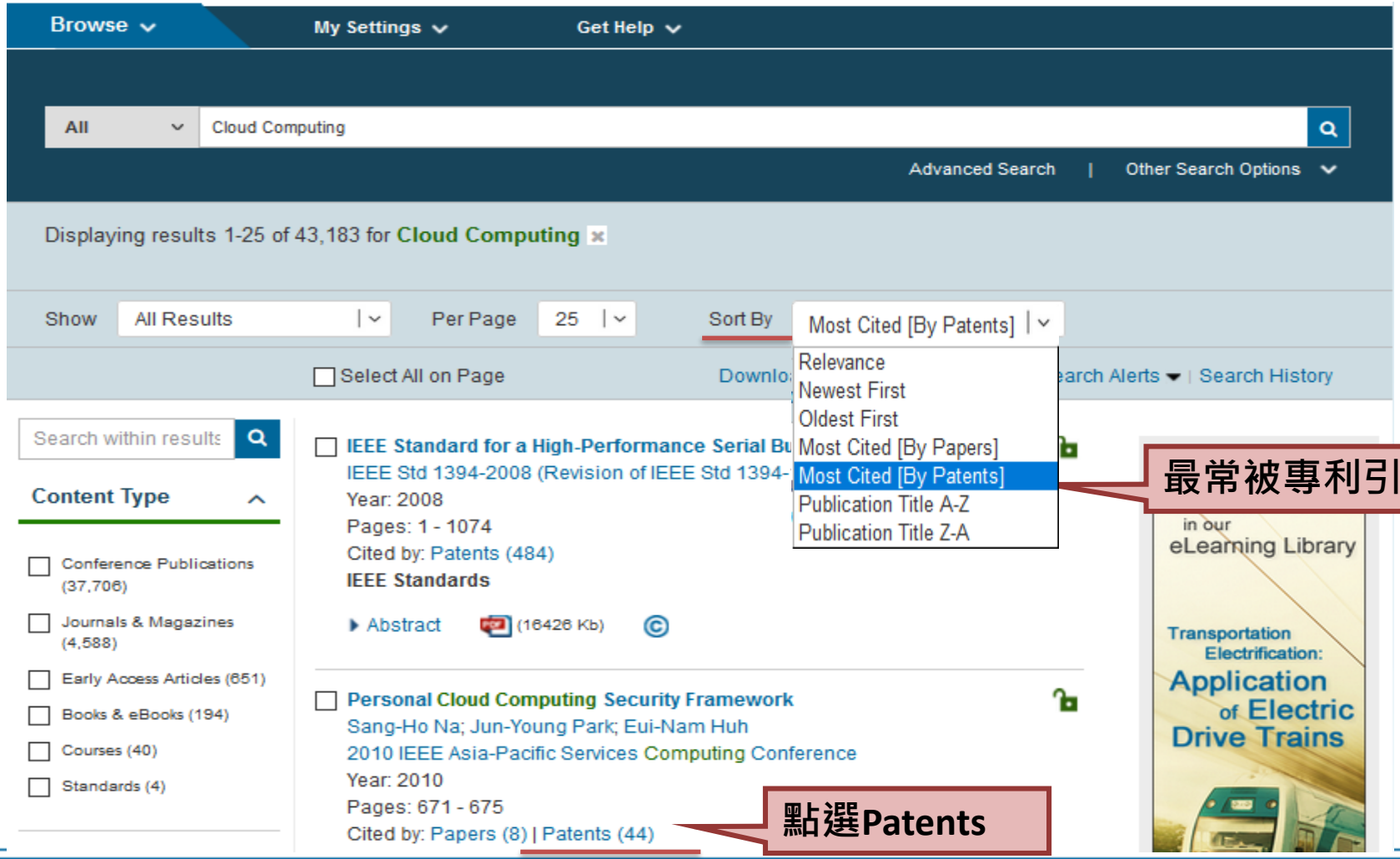

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Personal Cloud Computing Se

View Document | 8 Paper Citations | 44 Patent Citations

3 Author(s) | Sang-Ho Na ; Jun-Young Park ; Eui-Nam H

Abstract | Authors | Figures | Reference

Citations | Citation Map

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1. Walker, James
   - » Patent No. 9606774
   - » Full Text PDF
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Patent Citations (44) Patent Links Provided by 1790 Analytics

1. Walker, James, "20"
   - Patent No. 9606774 View at Patent Office Full Text: PDF
2. Barton, Gary; Lang, Zhongmin; Desai, Nitin; Walker, James Robert, "20"
   - Patent No. 9602474 View at Patent Office Full Text: PDF
3. Qureshi, Waheed; McGinty, John M.; Andre, Olivier; Abdullah, Shafaq, "Controlling mobile device access to enterprise resources"
   - Patent No. 9529996 View at Patent Office Full Text: PDF
4. Barton, Gary; Lang, Zhongmin; Desai, Nitin; Walker, James Robert, "Providing virtualized private network tunnels"
   - Patent No. 9521117 View at Patent Office Full Text: PDF
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Inventors:
Walker, James

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the application code to wra
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intercept one or more func
define one or more access
or more user devices. Sub
field-programmable busine
functions intercepted by th
application and the library

Assignee:
CITRIX SYSTEMS INC

Filing Date:
27 March 2015

Grant Date:
28 March 2017

United States Patent
Walker

Wrapping an application with field-programmable busine

Systems, methods, and computer-readable media for wrapping a
mobile application. Subsequently, the computing device may mo
on one or more policy files and configured to intercept one or more functions of the application code, where the one or more policy files each define one or more access controls that are enforced by a device management system on one or more user devices. Subsequently, the computing device may create a library file comprising field-programmable business logic defining implementation code linked to one or more of the functions intercepted by the wrapper. The computing device may then provide the wrapped application and the library file to at least one user device.

Wrapping an application with field-programmable business logic

Abstract

Systems, methods, and computer-readable media for wrapping an application with field-programmable business logic are presented. In some embodiments, a computing device may load application code of a mobile application. Subsequently, the computing device may modify the application code to wrap the application with an application wrapper that is configured to manage execution of the application based on one or more policy files and configured to intercept one or more functions of the application code, where the one or more policy files each define one or more access controls that are enforced by a device management system on one or more user devices. Subsequently, the computing device may create a library file comprising field-programmable business logic defining implementation code linked to one or more of the functions intercepted by the wrapper. The computing device may then provide the wrapped application and the library file to at least one user device.

US9606774B2
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Application number: US14671351

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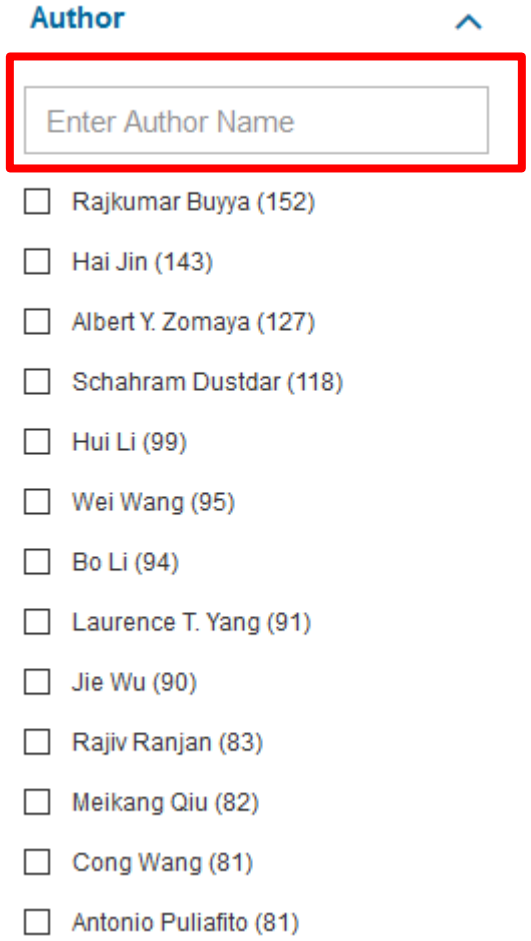

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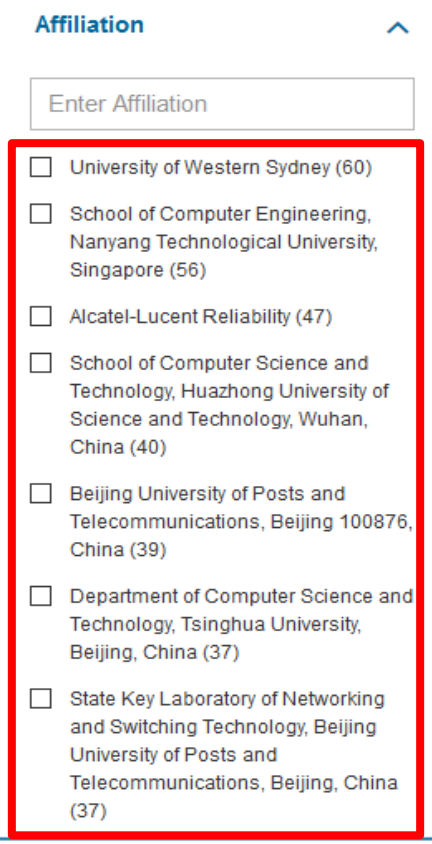

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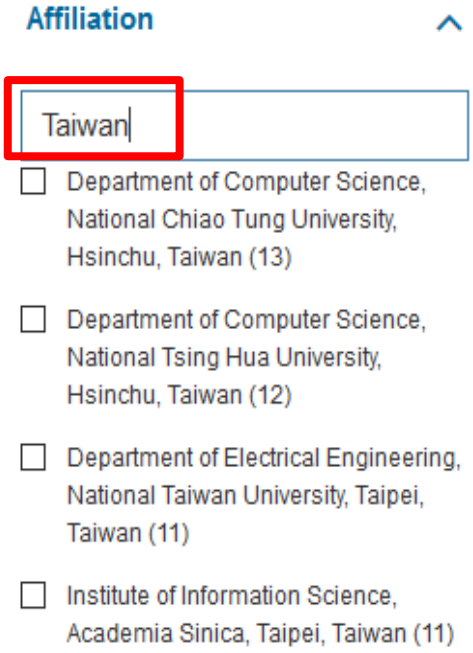

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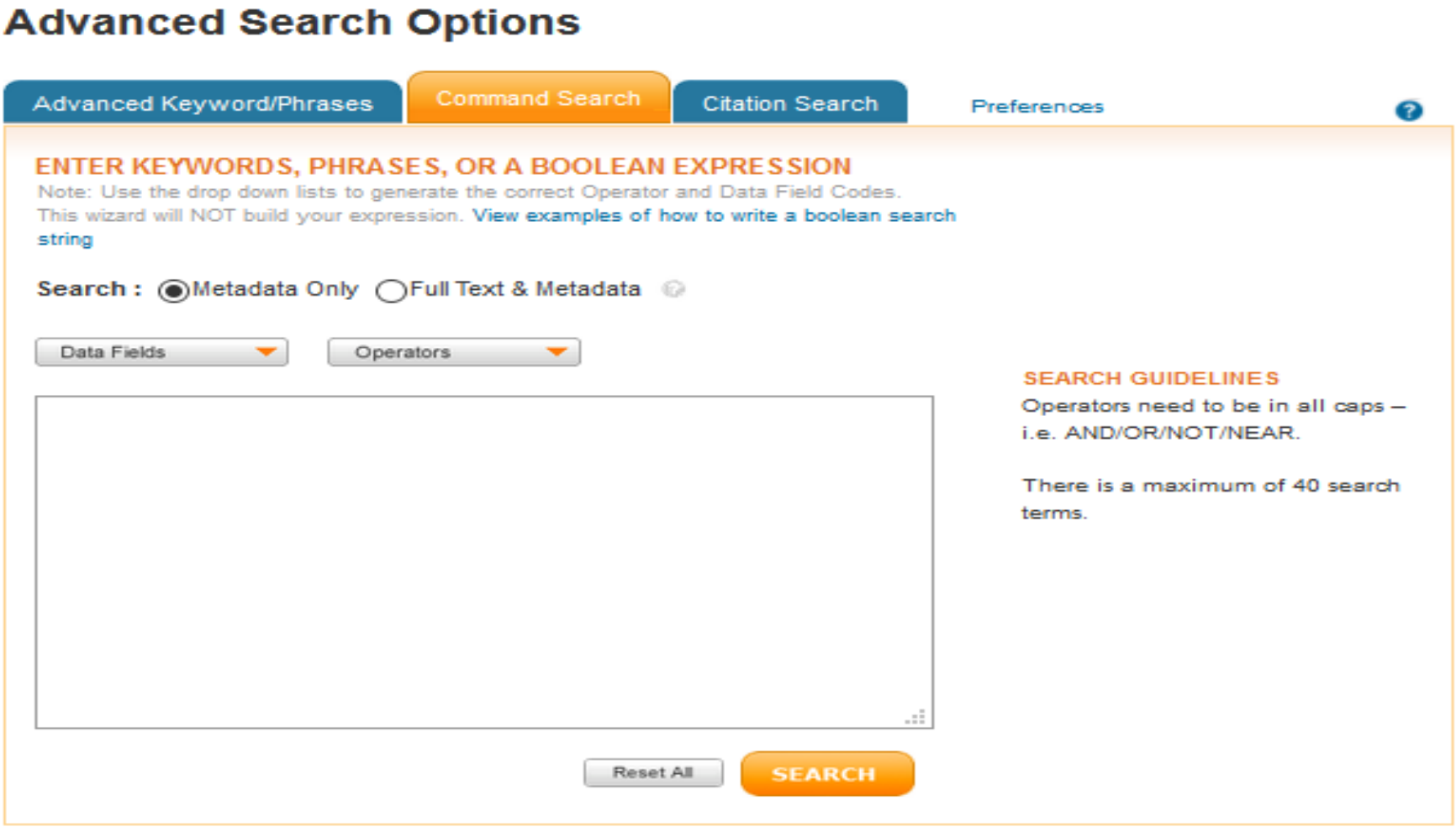
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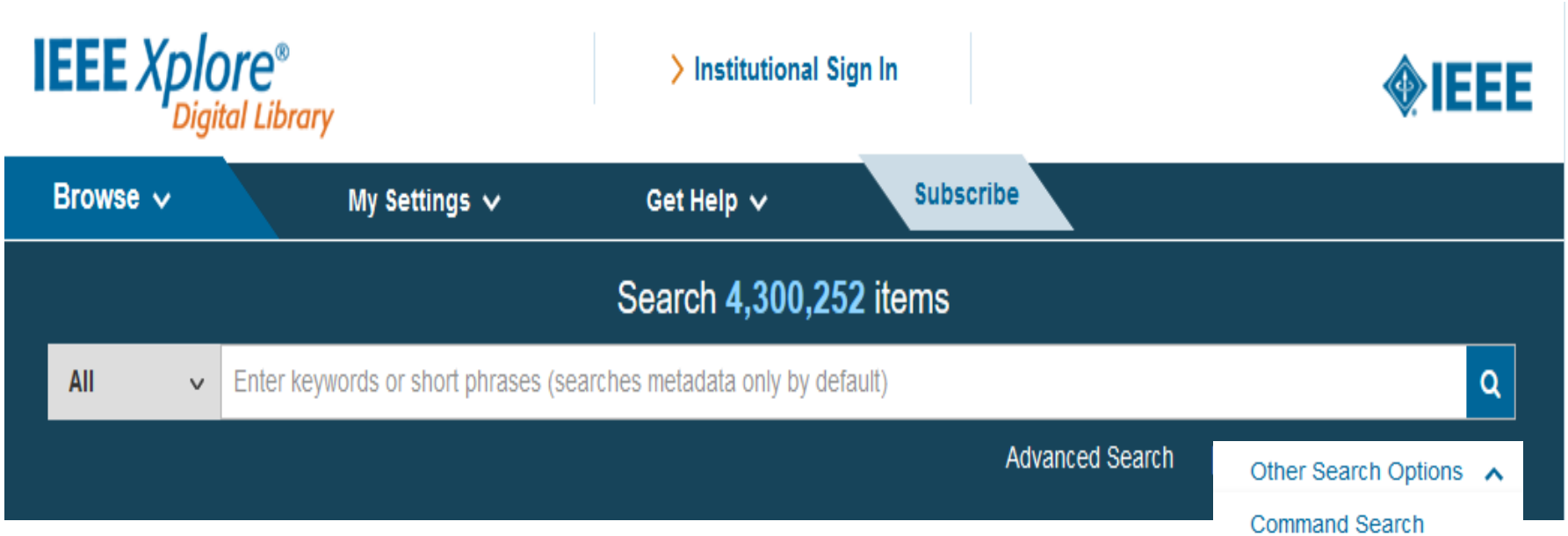

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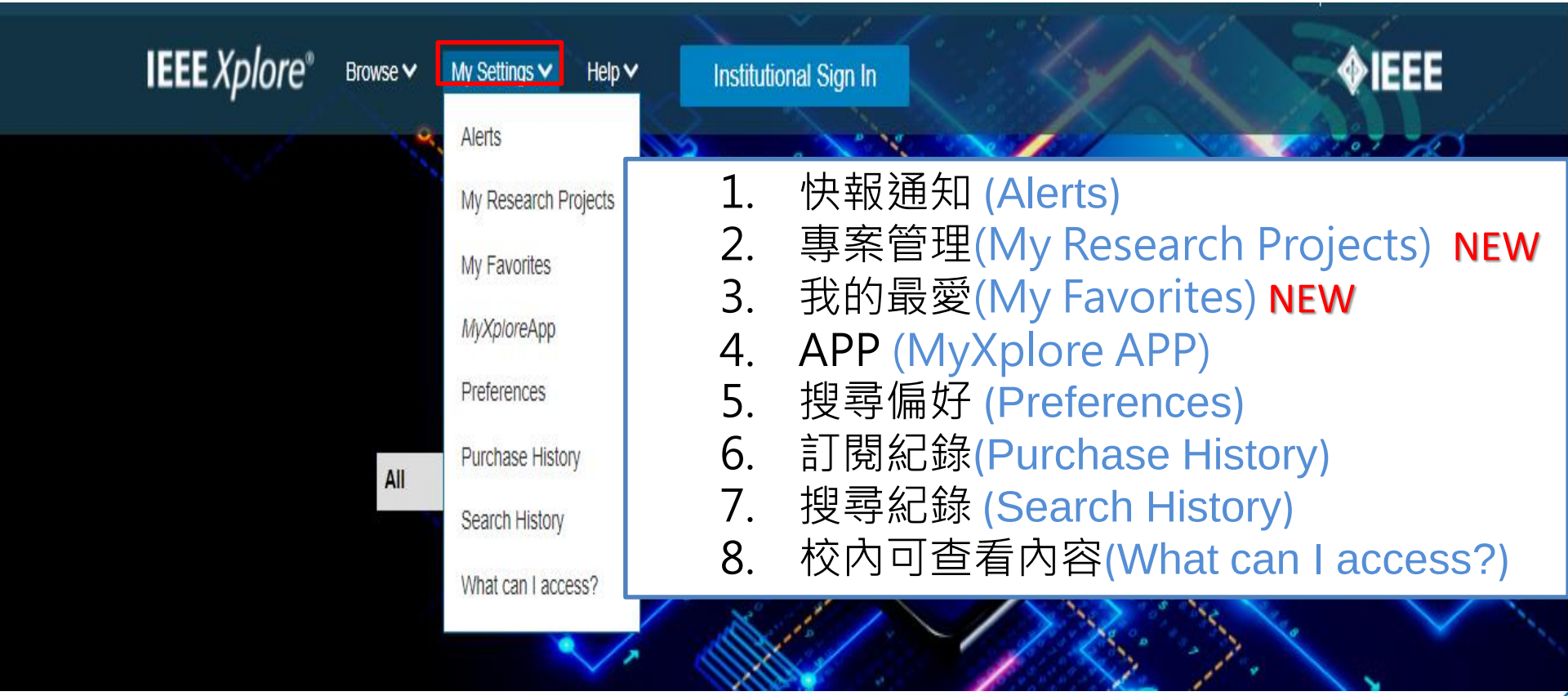

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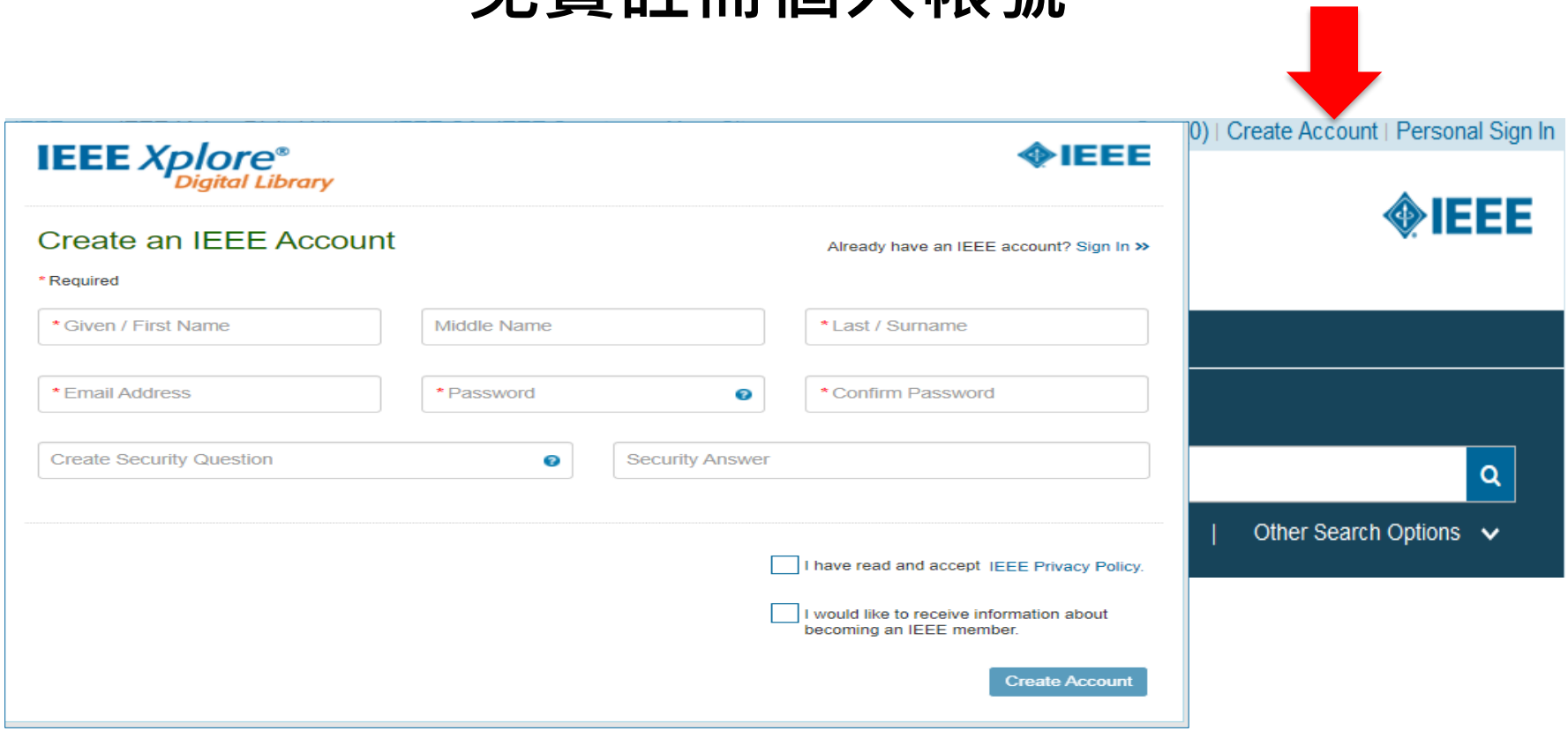
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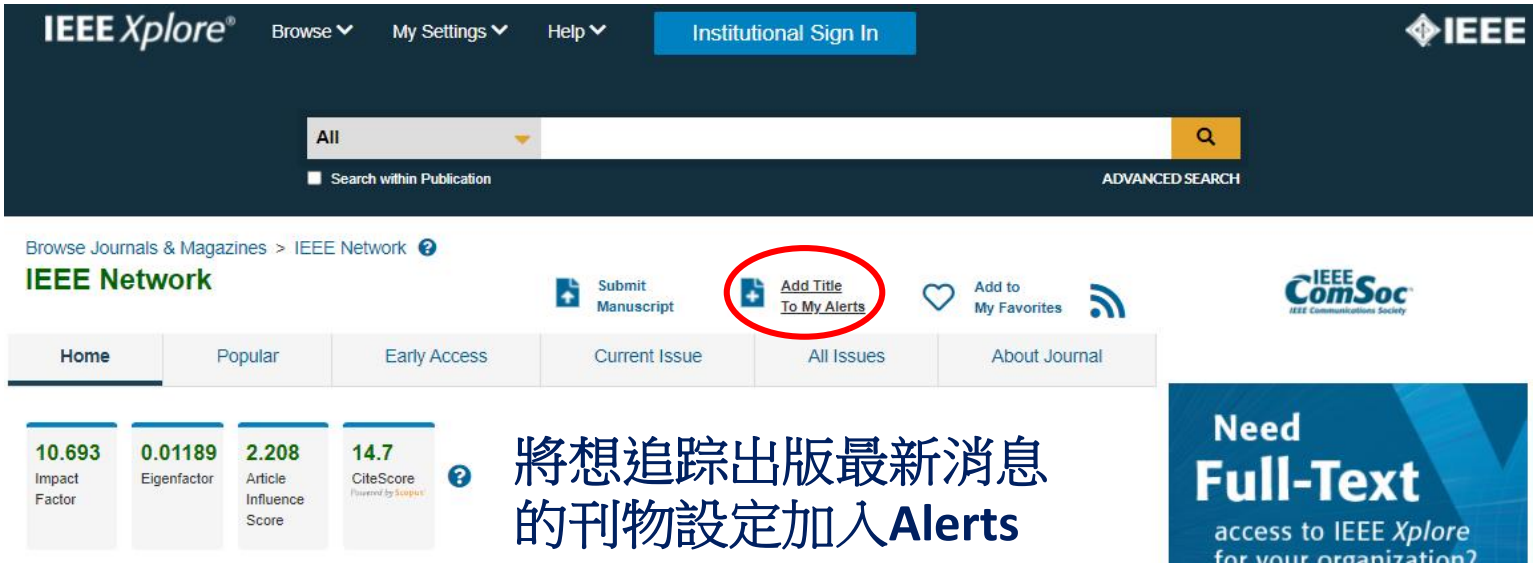

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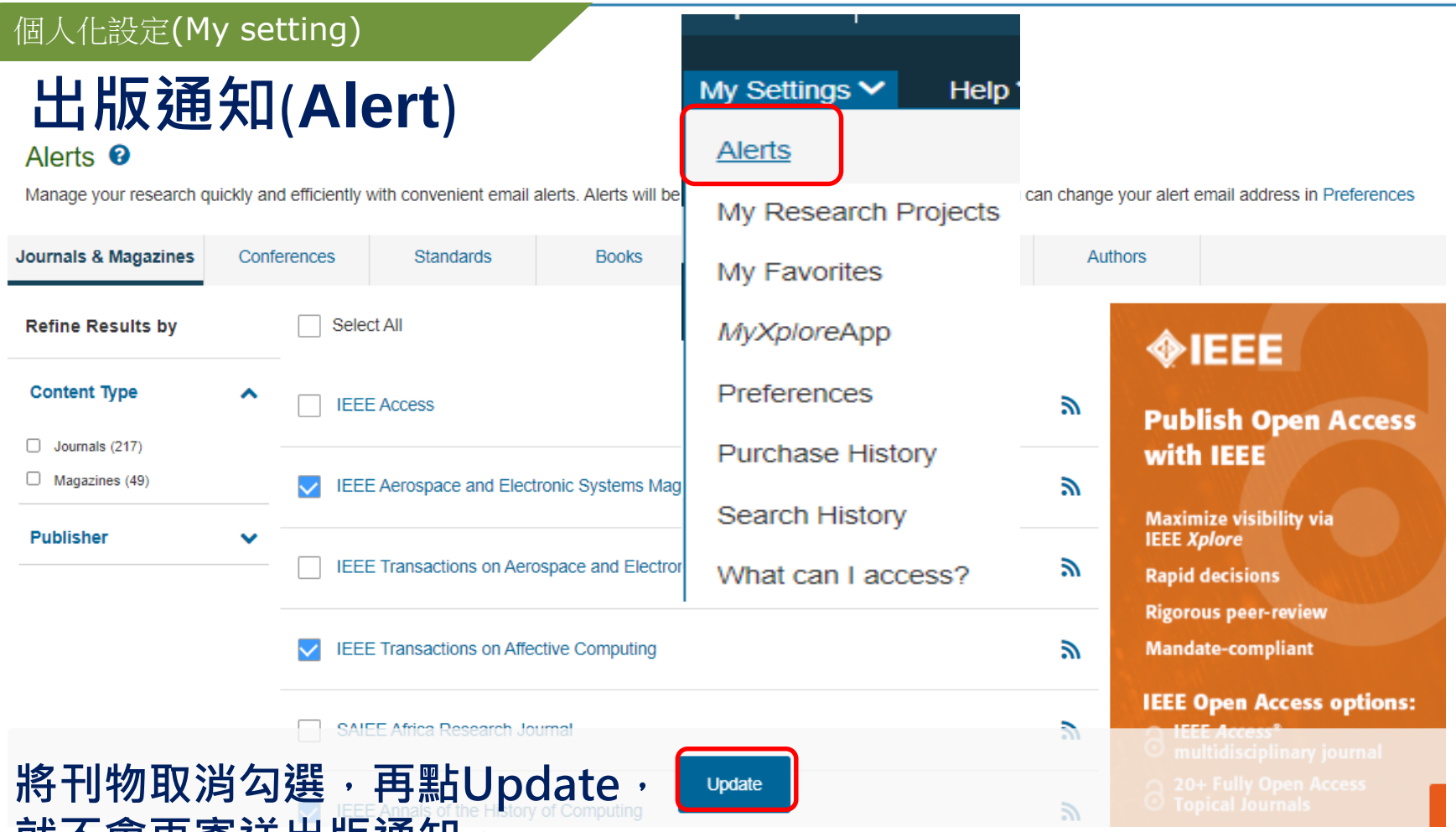

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This paper discusses envelope-tracking solutions for broadband mm-wave transmitters as requ...tions. The unique feature is to use switch-type circuits based on GaN devices in the modulators. Starting from state-of-the-art results in the 2 GHz band, the potential of advanced solutions for 30 GHz transmitters with bandwidths beyond 1 GHz is discussed. Both discrete-level class-G and class-S modulators are considered.

Published in: 2018 IEEE MTT-S International Microwave Workshop Series on 5G Hardware and System Technologies (IMWS-5G)

Date of Conference: 30-31 Aug. 2018

Date Added to IEEE *Xplore*: 08 October 2018

ISBN Information:

INSPEC Accession Number: 18149249

DOI: 10.1109/IMWS-5G.2018.8484690

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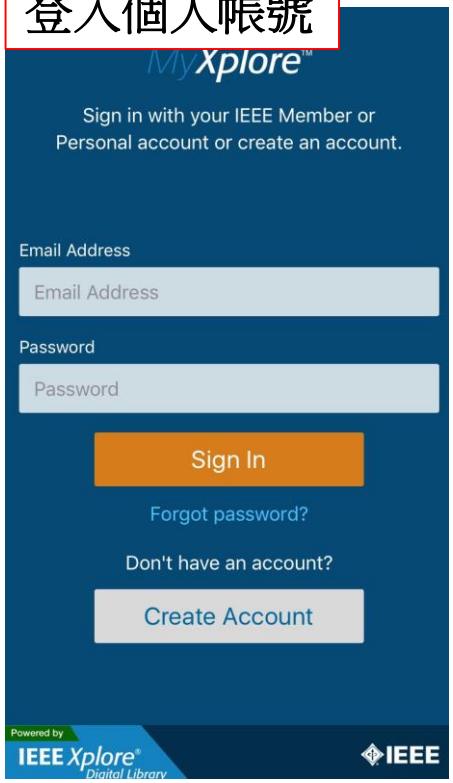

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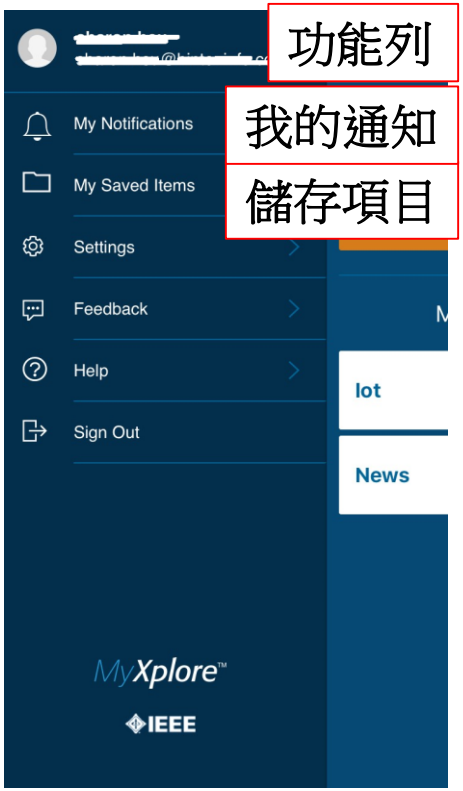

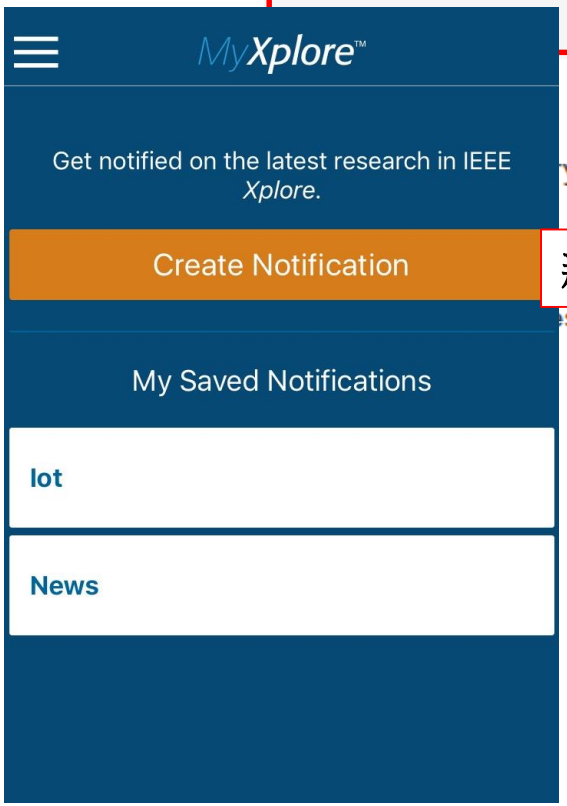

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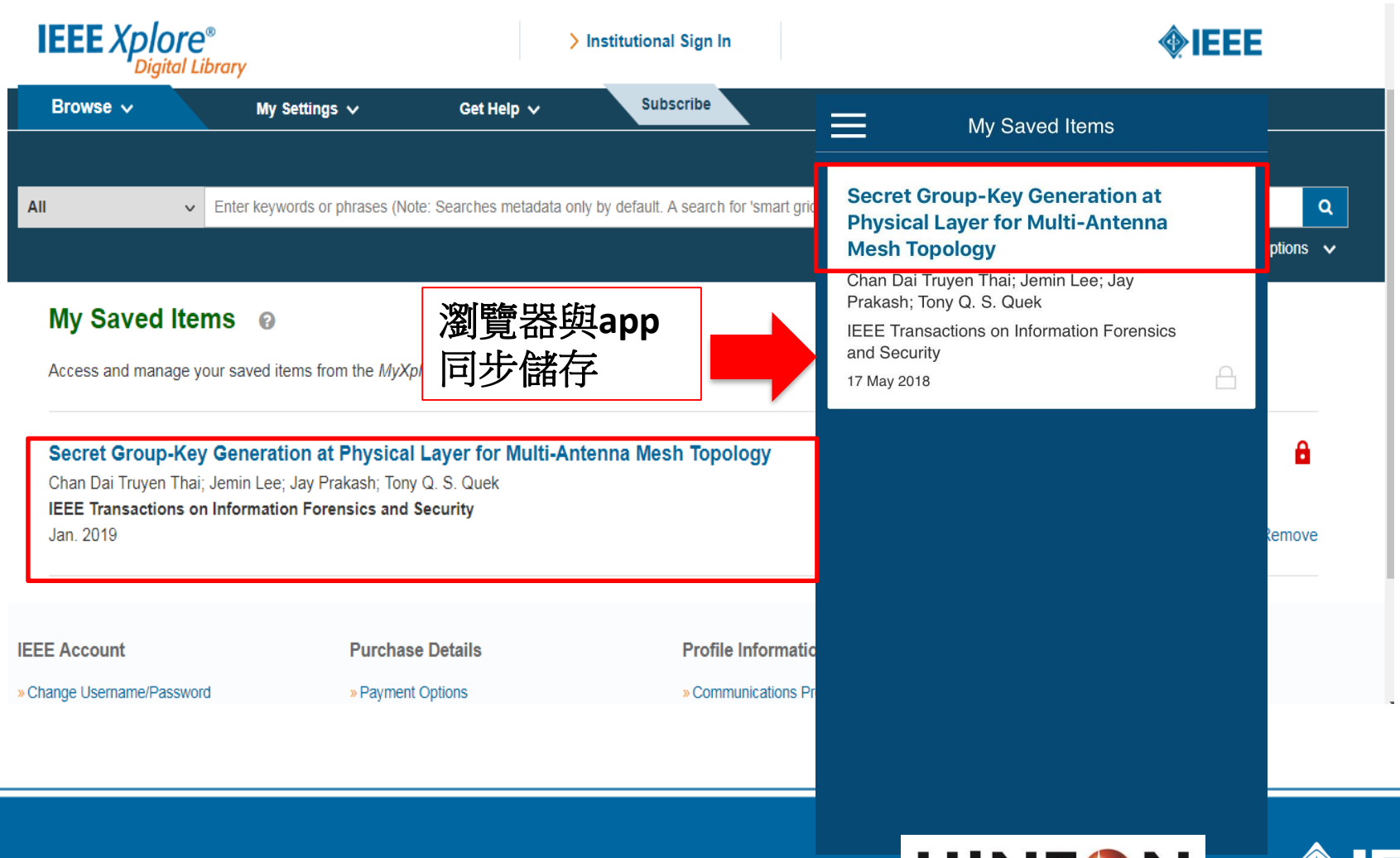

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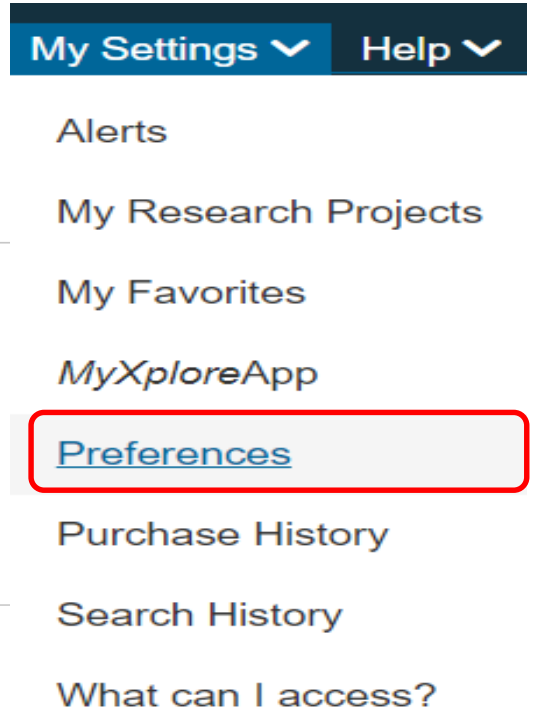

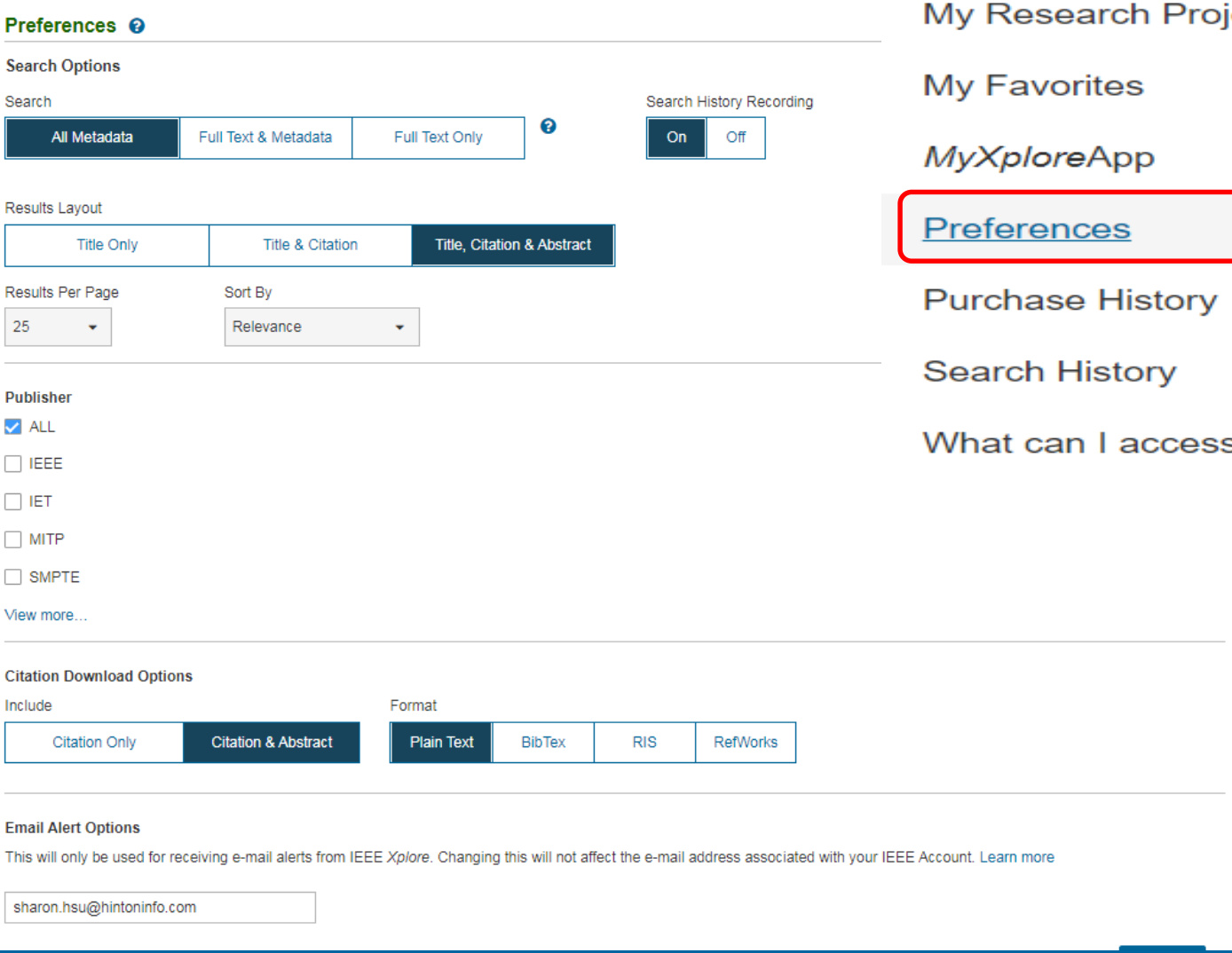

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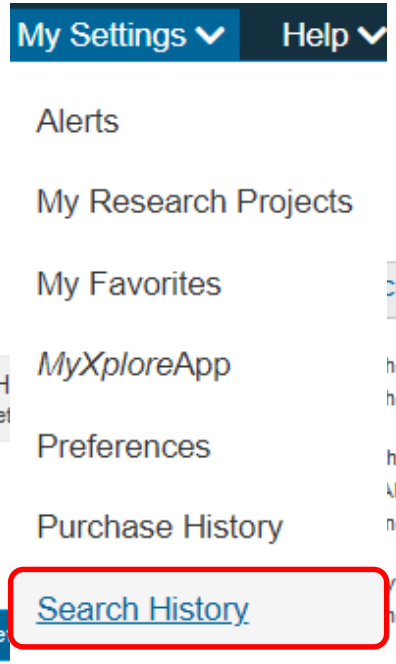

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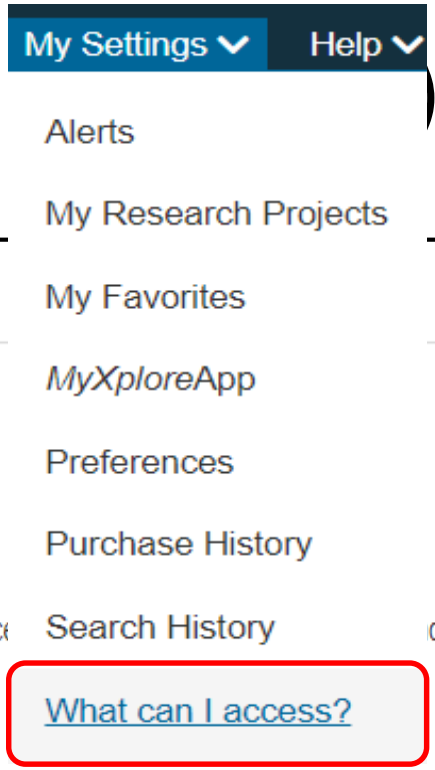

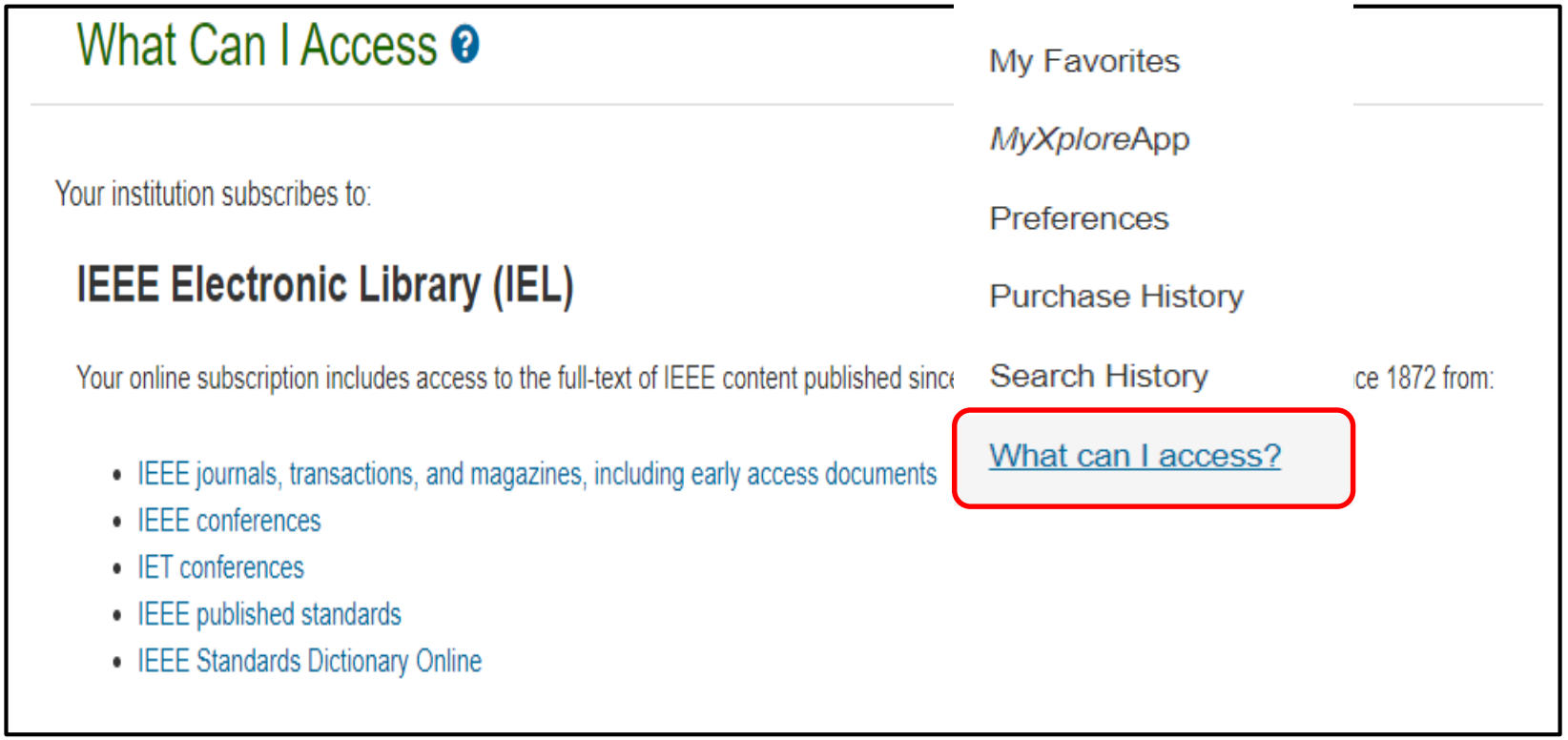

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