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The Institute of Electrical and Electronics Engineers

電機電子工程師學會

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IEEE 歷史起源

你能想像?

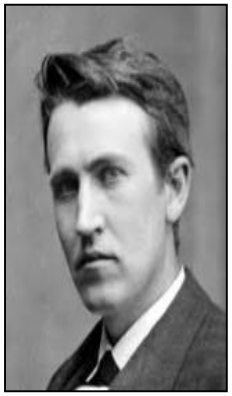
與19世紀電氣工程領域的三巨頭

亞歷山大·格拉漢姆·貝爾

托馬斯·愛迪生

尼古拉·特斯拉

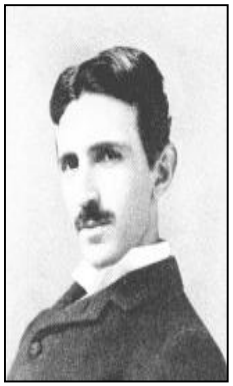
一起開會的場景嗎?



Thomas Edison

Alexander Graham Bell

1884年10月這三位電氣界的巨頭與其他著名電氣工程師在費城的會議上會面，
這是美國第一次舉行正式的電氣工程師技術會議



Nikola Tesla

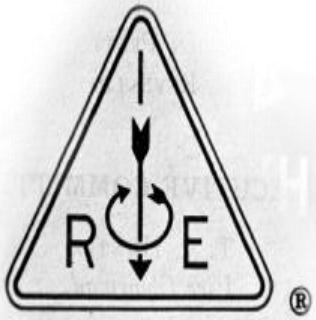
美國電機工程師協會於1884年10月7~8日舉行了其第一次會議。這是美國舉行的第一次正式的電氣工程技術會議

IEEE 的歷史進程

1884 ..... 1912 ..... 1963 ..... Present

1884年春季，托馬斯·愛迪生、亞歷山大·格拉漢姆·貝爾和其他著名人士創立了美國電氣工程師協會（AIEE）

AIEE
American Institute
of Electrical Engineers



IRE
Institute of Radio
Engineers

60年前的1月1號，AIEE和IRE合併成為 Institute of Electrical and Electronics Engineers (IEEE).

1912年，無線技術和電子領域的先驅們創立了更具國際性的無線電工程師學會(Institute of Radio Engineers)

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- 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40萬人

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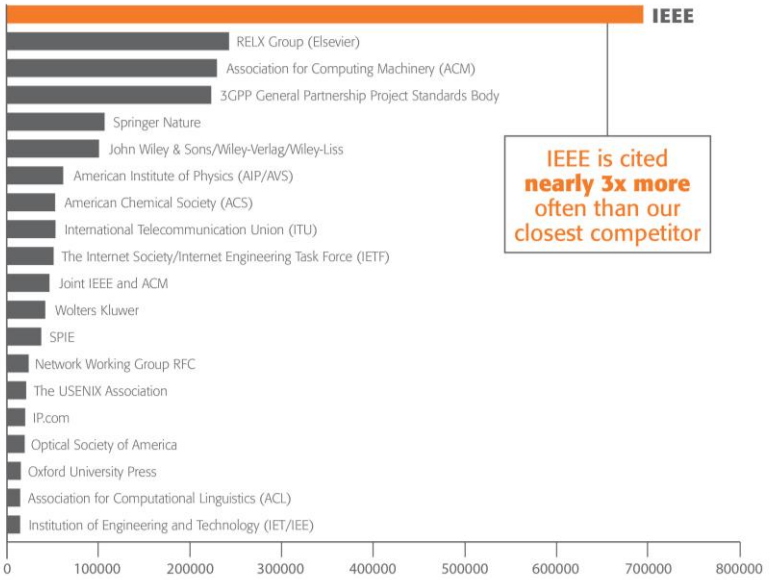

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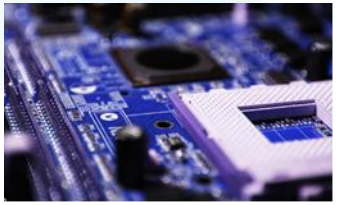

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- 標準制定內容包含試驗方法、符號、定義以及測試方法等領域。
- 最新更新標準:

- IEEE Std 3168-2024—**IEEE Standard for Robustness Evaluation Test Methods for a Natural Language Processing Service That Uses Machine Learning**
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- IEEE C37.252-2024—**IEEE Guide for Testing Automatic Voltage Control Systems in Regional Power Grids**
- IEEE P3400/D4, Jul 2024—**IEEE Draft Standard for Use of Inclusive Language in Technical Terminology and Communications**
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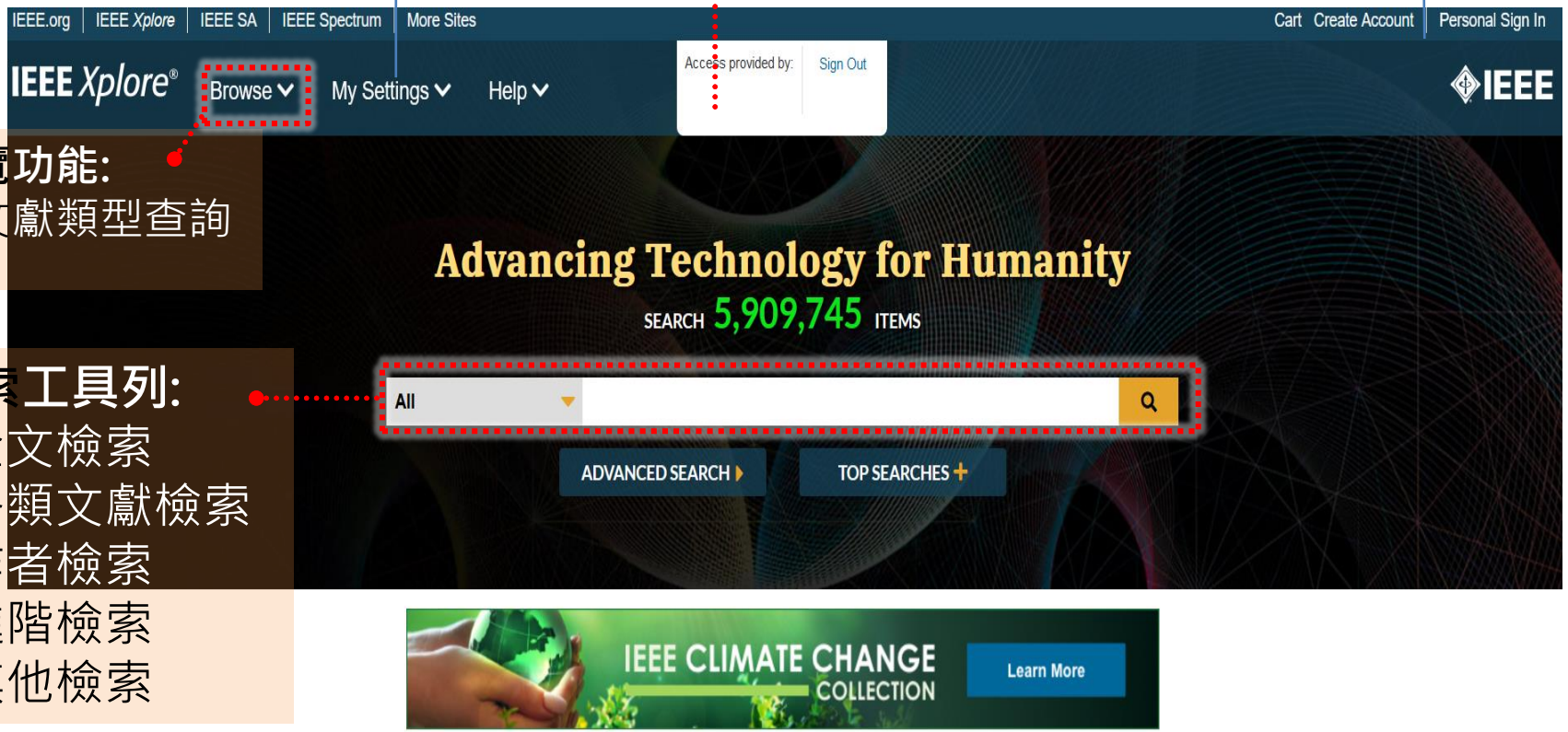

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21 MAY	2023 IEEE International Symposium on Circuits and Systems (ISCAS) REGISTER ABOUT	21-25 MAY 2023 | MONTEREY, CALIFORNIA, USA
29 OCT	2023 IEEE/ACM International Conference on Computer Aided Design (ICCAD) CALL FOR PAPERS ABOUT	29 OCT-2 NOV 2023 | SAN FRANCISCO, CALIFORNIA, USA

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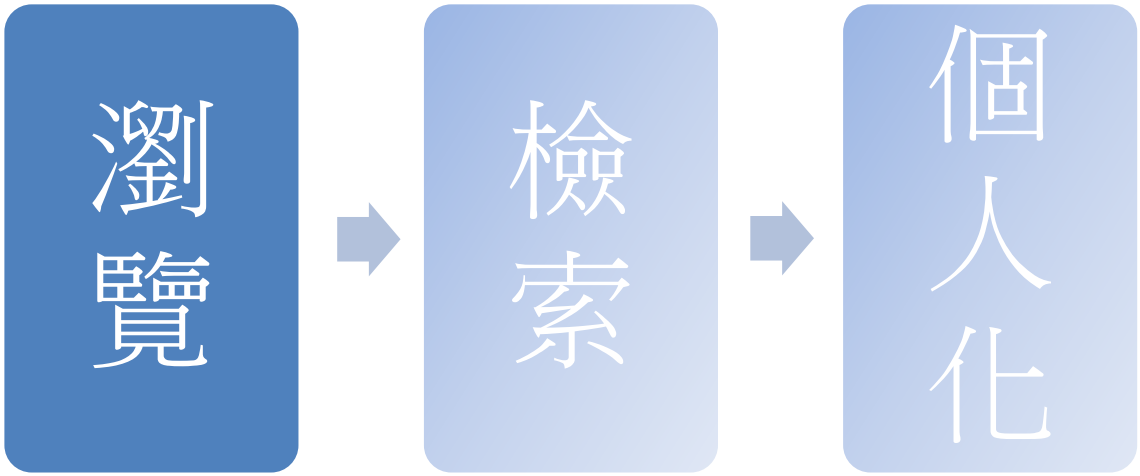

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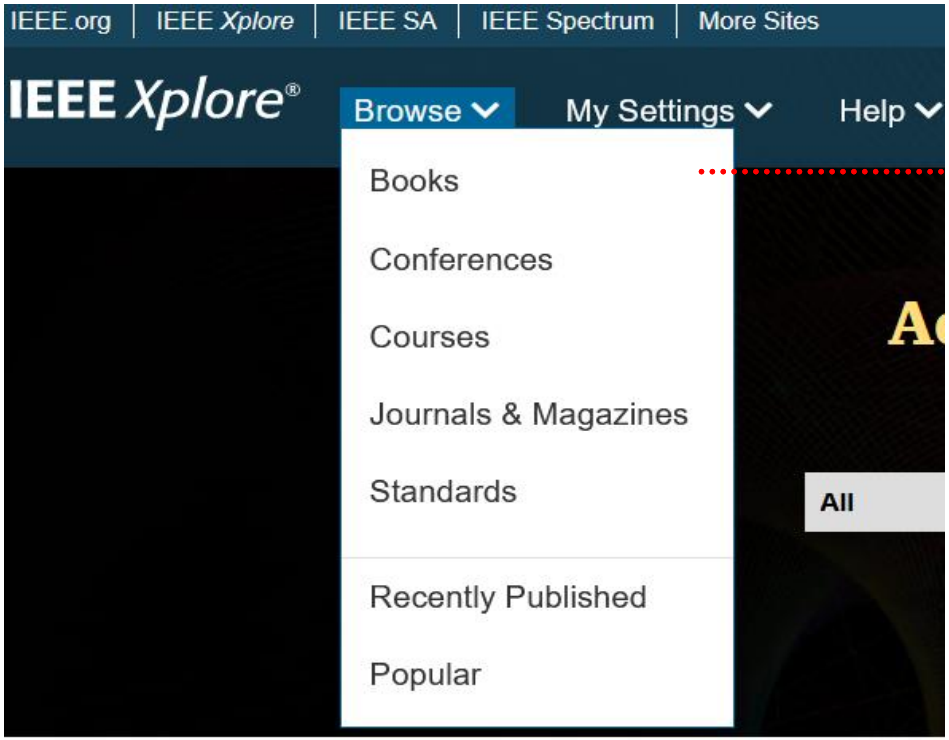

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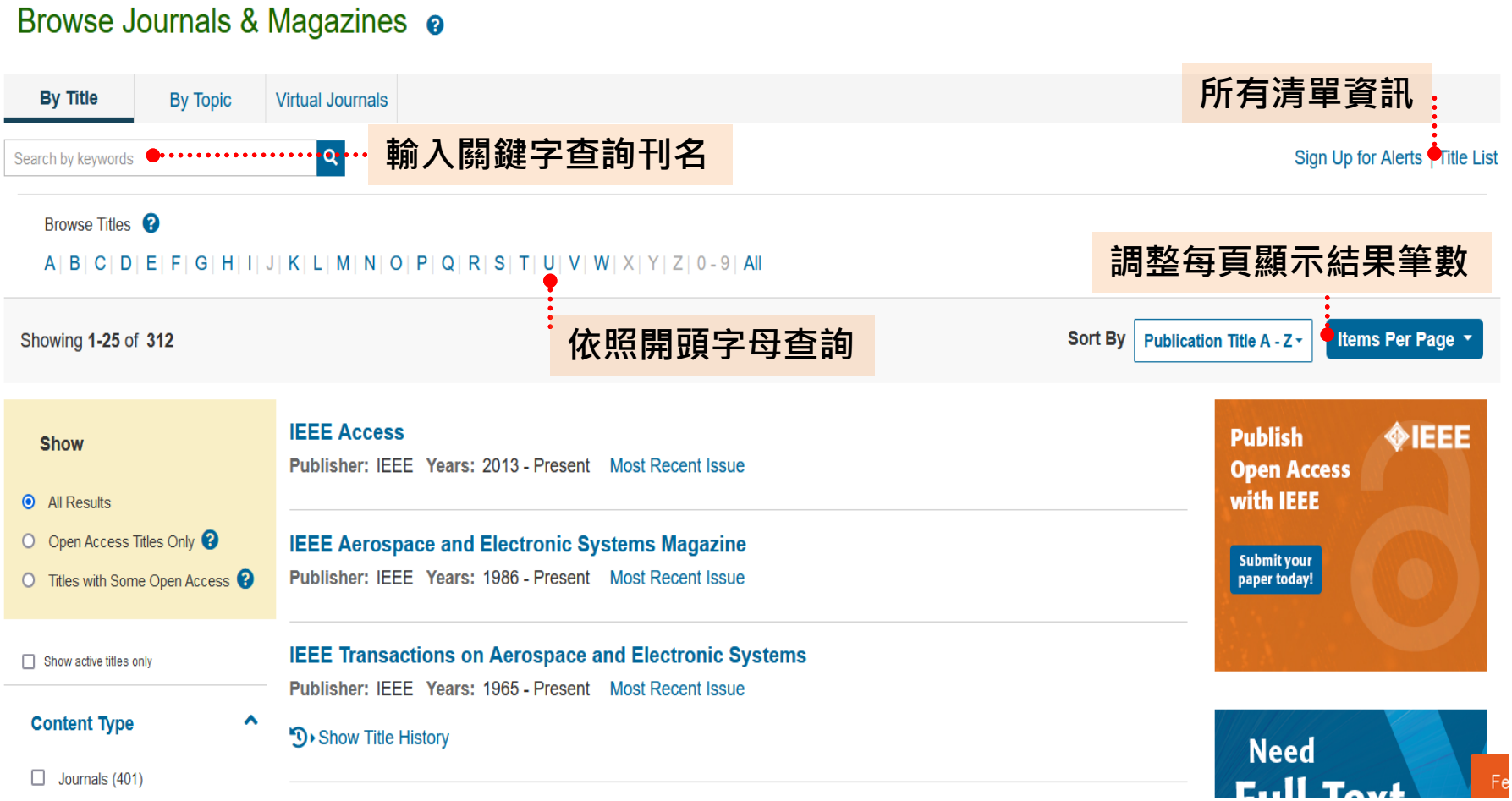

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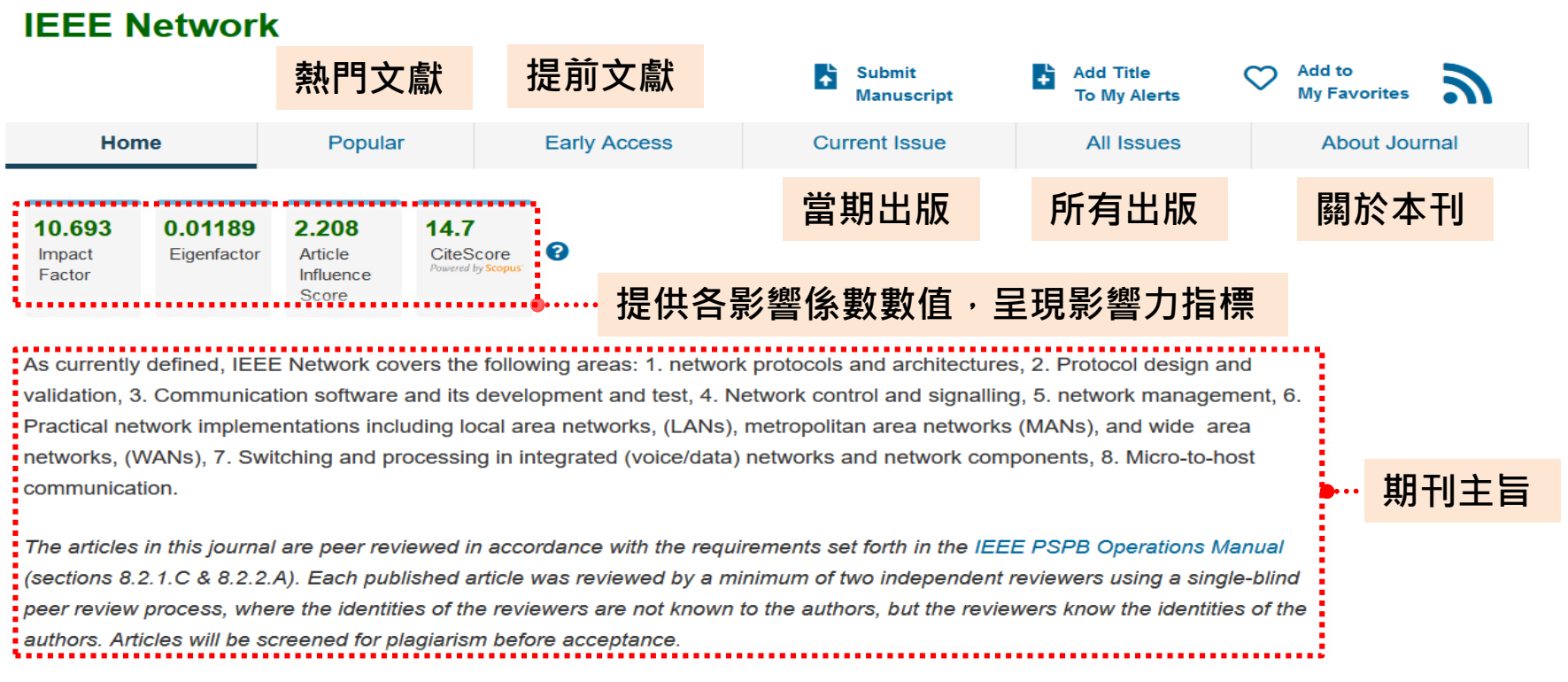
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A Vision Of 6G Wireless Systems: Applications, Trends, Technologies, And Open Research Problems

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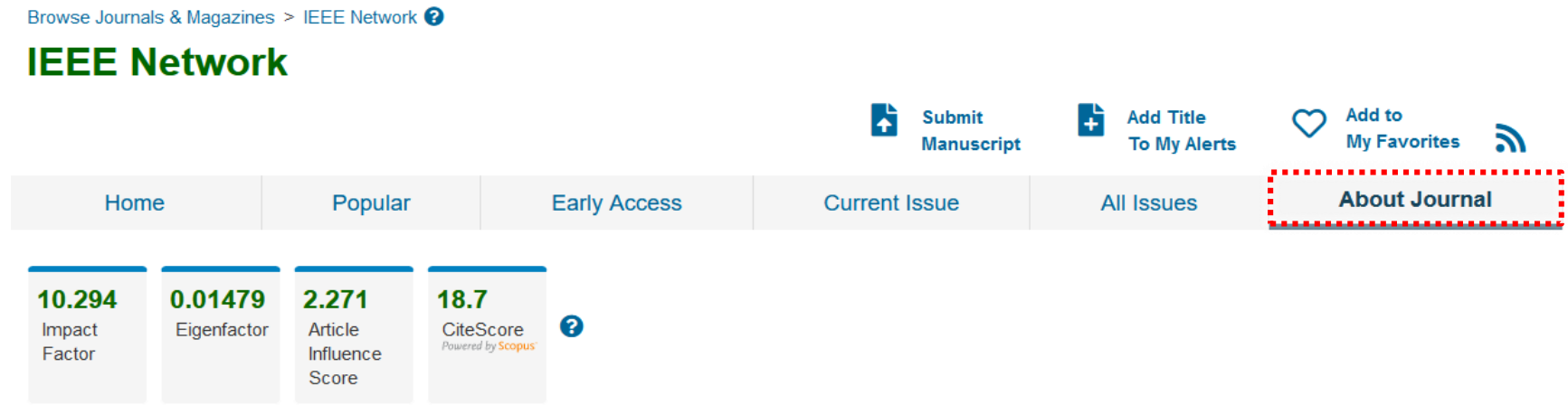
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A Vision of 6G Wireless Systems: Applications, Trends, Technologies, and Open Research Problems

Walid Saad; Mehdi Bennis; Mingzhe Chen

Publication Year: 2020 , Page(s): 134 - 142

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Yuanhao Cui; Fan Liu; Xiaojun Jing; Junsheng Mu

Publication Year: 2021 , Page(s): 158 - 167

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A Vision of 6G Wireless Systems: Applications, Trends, Technologies, and Open Research Problems

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1512 Paper Citations
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Abstract
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» 6G Driving Applications, Metrics, and New Service Classes
» 6G: Enabling Technologies
» 6G: Research Agenda and Open Problems
» Conclusion and Recommendations
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Abstract:
The ongoing deployment of 5G cellular systems is continuously exposing the inherent limitations of this system, compared to its original premise as an enabler for Internet of Everything applications. These 5G drawbacks are spurring worldwide activities focused on defining the next-generation 6G wireless system that can truly integrate far-reaching applications ranging from autonomous systems to extended reality. Despite recent 6G initiatives (one example is the 6Genesis project in Finland), the fundamental architectural and performance components of 6G remain largely undefined. In this article, we present a holistic, forward-looking vision that defines the tenets of a 6G system. We opine that 6G will not be a mere exploration of more spectrum at high-frequency bands, but it will rather be a convergence of upcoming technological trends driven by exciting, underlying services. In this regard, we first identify the primary drivers of 6G systems, in terms of applications and accompanying technological trends. Then, we propose a new set of service classes and expose their target 6G performance requirements. We then identify the enabling technologies for the introduced 6G services and outline a comprehensive research agenda that leverages those technologies. We conclude by providing concrete recommendations for the roadmap toward 6G. Ultimately, the intent of this article is to serve as a basis for stimulating more out-of-the-box research around 6G.

Published in: IEEE Network (Volume: 34 , Issue: 3, May/June 2020)

Page(s): 134 - 142

INSPEC Accession Number: 19669258

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Authors

Abstract:
The ongoing deployment of 5G cellular systems is continuously exposing the inherent limitations of this system, compared to its original premise as an enabler for Internet of Everything applications. These 5G drawbacks are spurring worldwide activities focused on defining the next-generation 6G wireless system that can truly integrate far-reaching applications ranging from autonomous systems to extended reality. Despite recent 6G initiatives (one example is the 6Genesis project in Finland), the fundamental architectural and performance components of 6G remain largely undefined. In this article, we present a holistic, forward-looking vision that defines the tenets of a 6G system. We opine that 6G will not be a mere exploration of more spectrum at high-frequency bands, but it will rather be a convergence of upcoming technological trends driven by exciting, underlying services. In this regard, we first identify the primary drivers of 6G systems, in terms of applications and accompanying technological trends. Then, we propose a new set of service classes and expose their target 6G performance requirements. We then identify the enabling technologies for the introduced 6G services and outline a comprehensive research agenda that leverages those technologies. We conclude by providing concrete recommendations for the roadmap toward 6G. Ultimately, the intent of this article is to serve as a basis for stimulating more out-of-the-box research around 6G.

Published in: IEEE Network (Volume: 34 , Issue: 3, May/June 2020)

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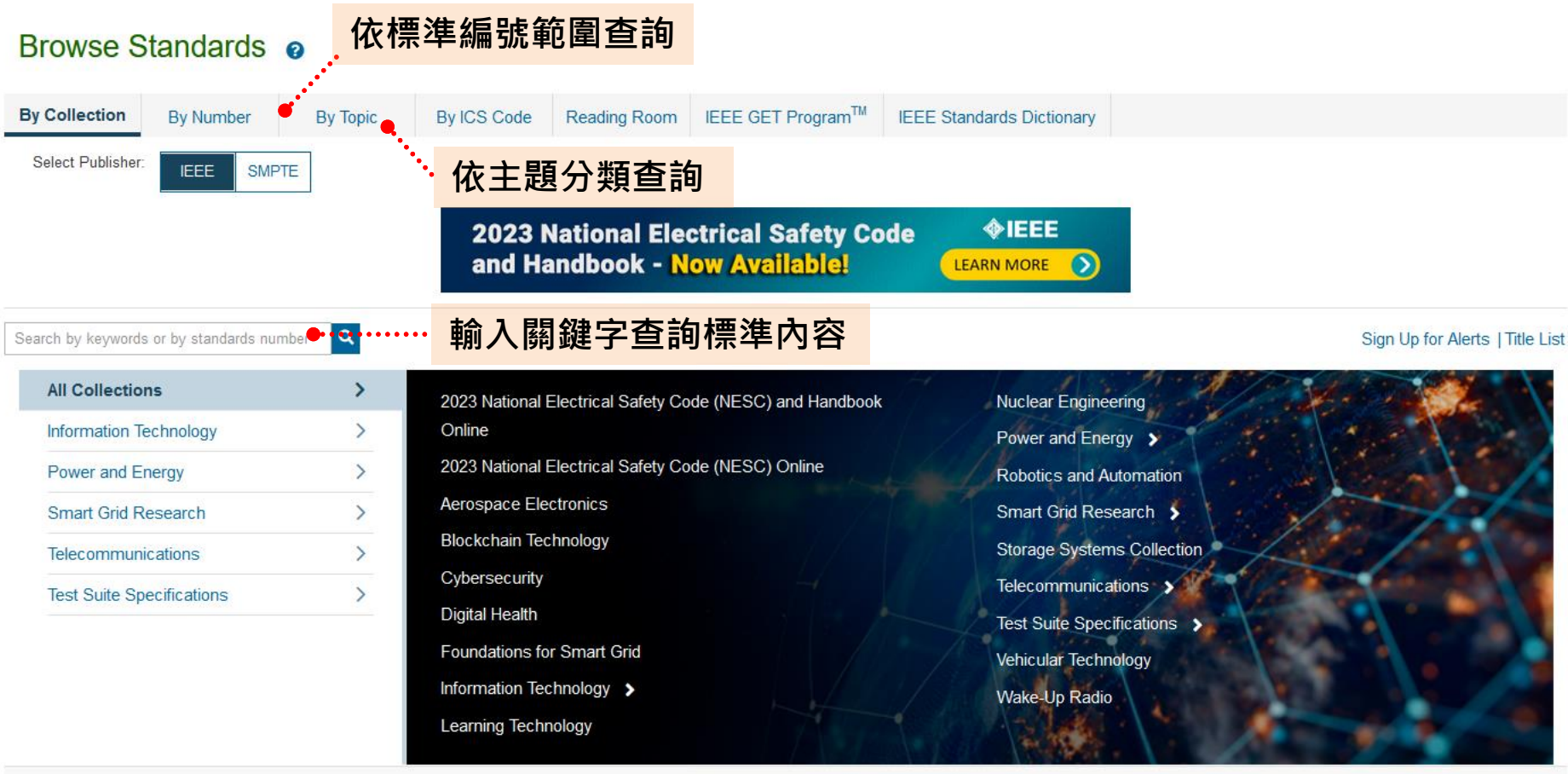

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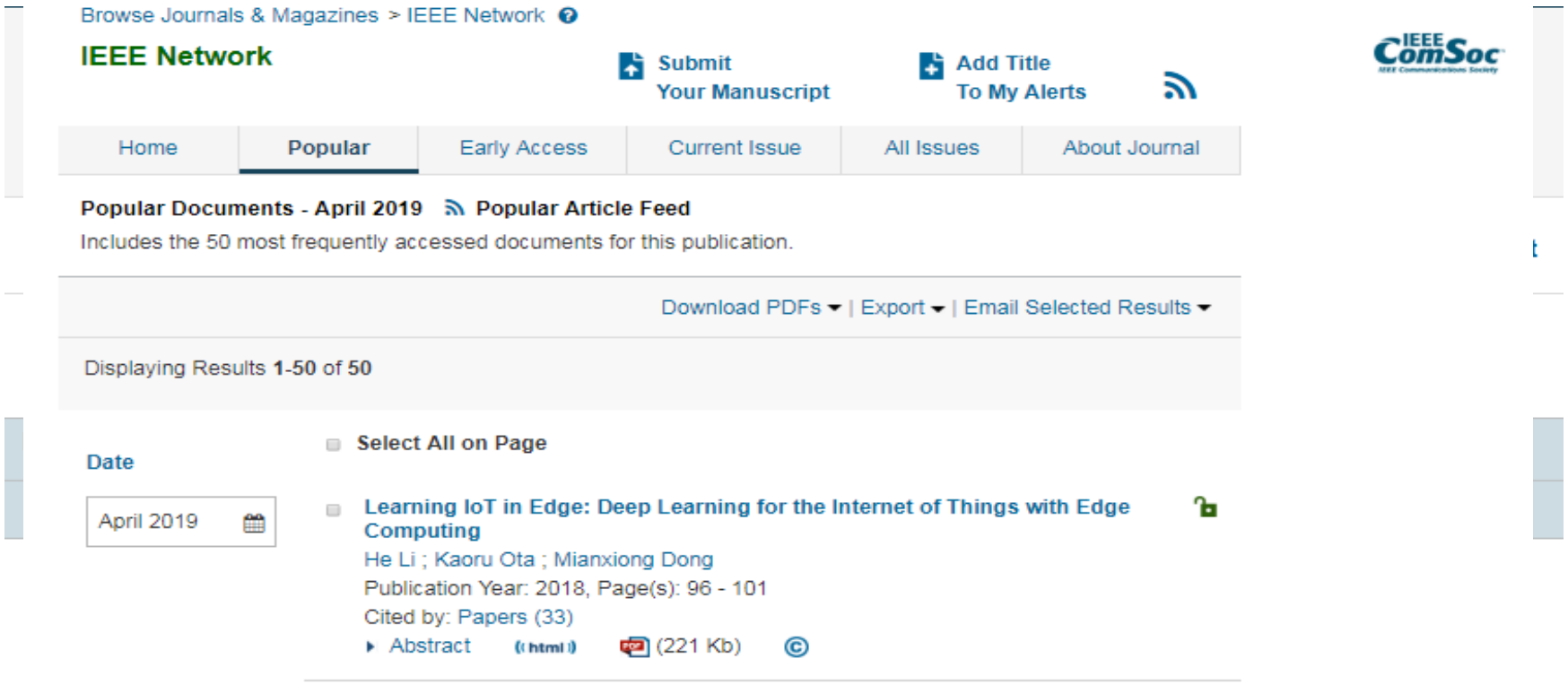

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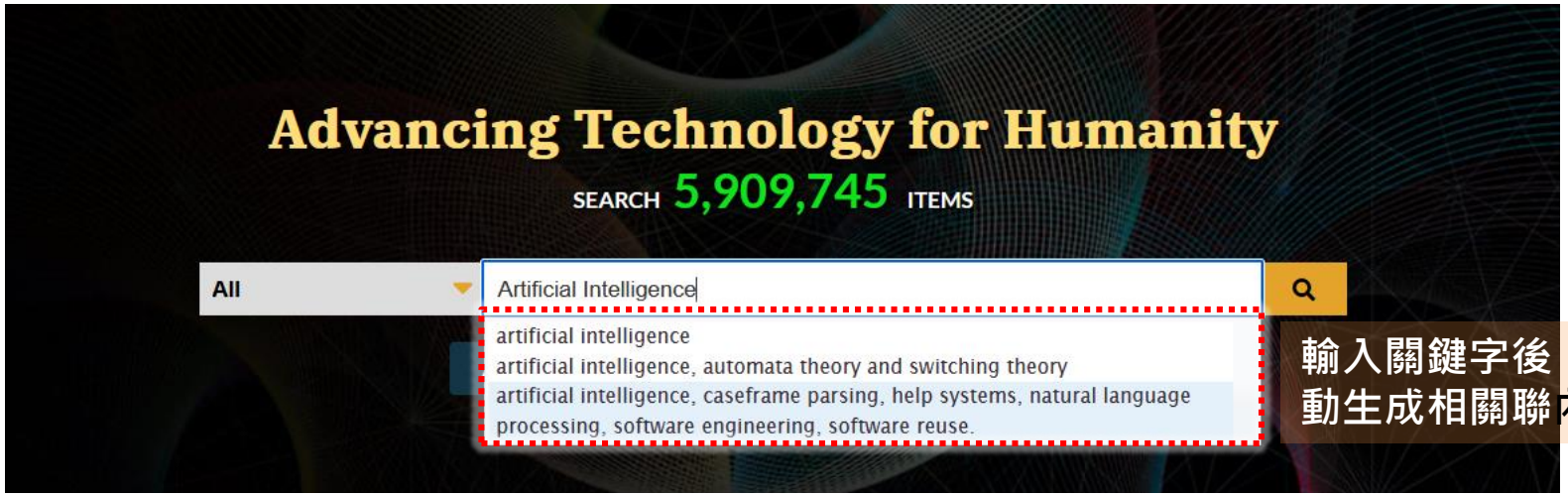

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HAOYU WANG; YONG LIU; ZIFENG HAN; JIANZHANG WU

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Arwin Datumaya Wahyudi Sumari; Rosa Andrie Asmara; Dimas Rossiawan Hendra Putra; Ika Noer Syamsiana

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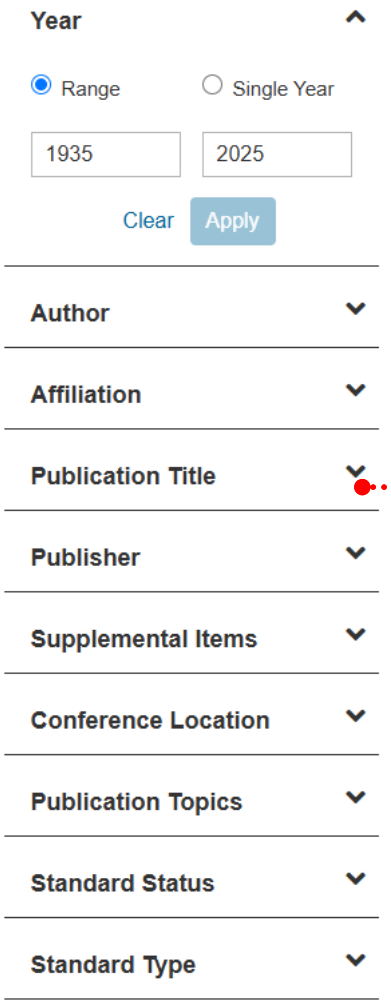

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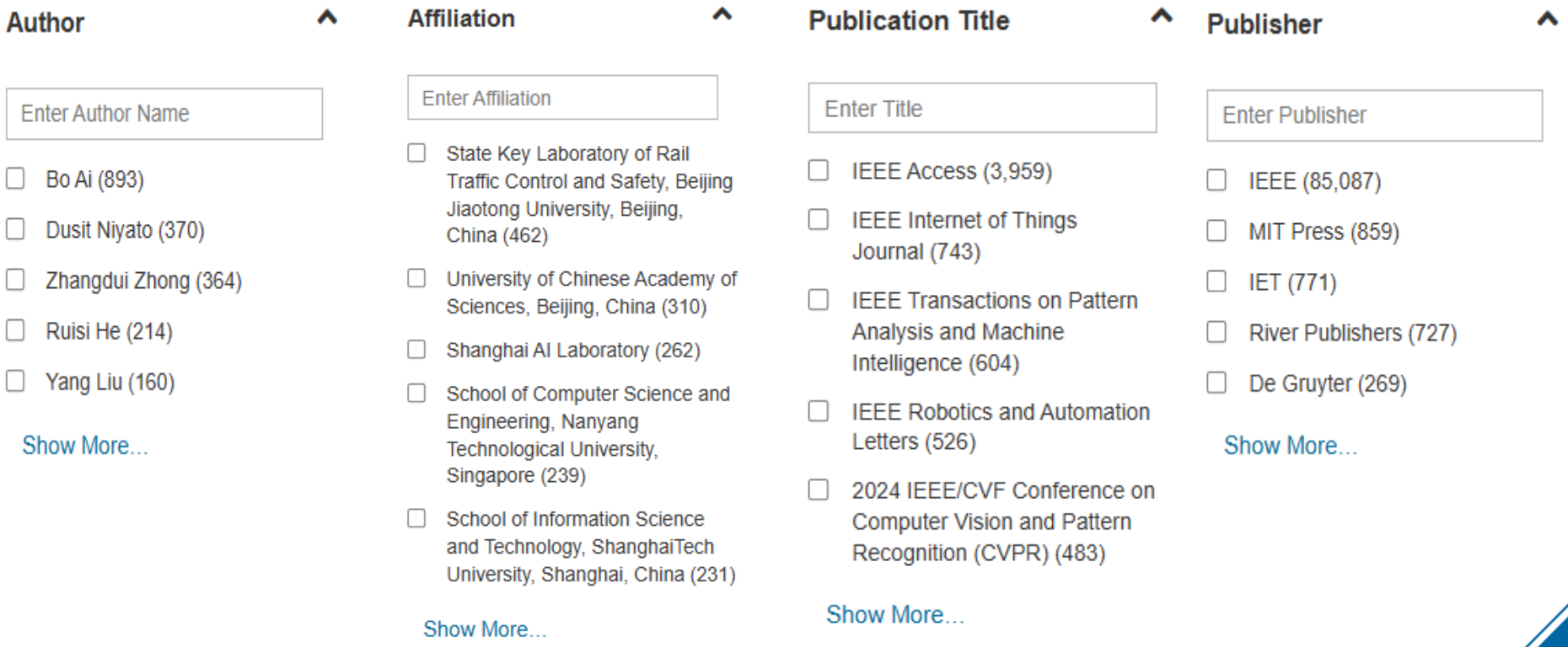

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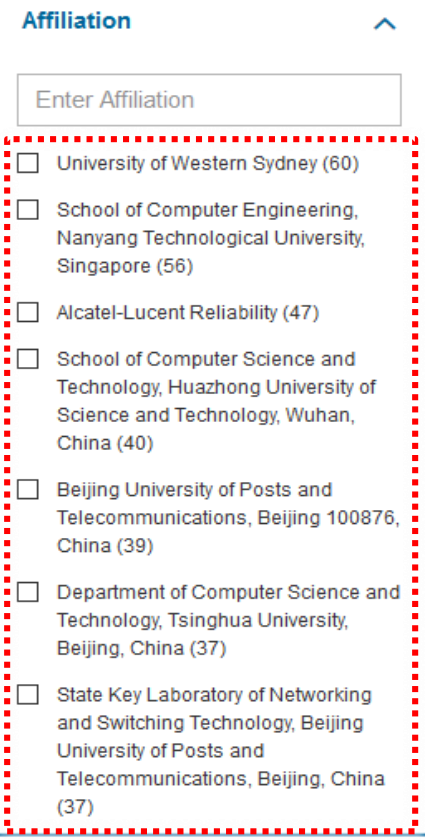

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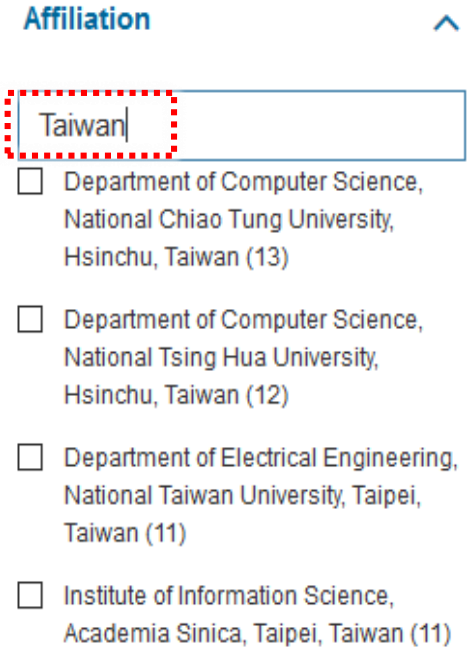

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A Voting-Mechanism based Ensemble Framework for Constraint Handling Techniques

Guohua Wu; Xupeng Wen; Ling Wang; Witold Pedrycz; P. N. Suganthan

IEEE Transactions on Evolutionary Computation

Year: 2021 | Early Access Article | Publisher: IEEE

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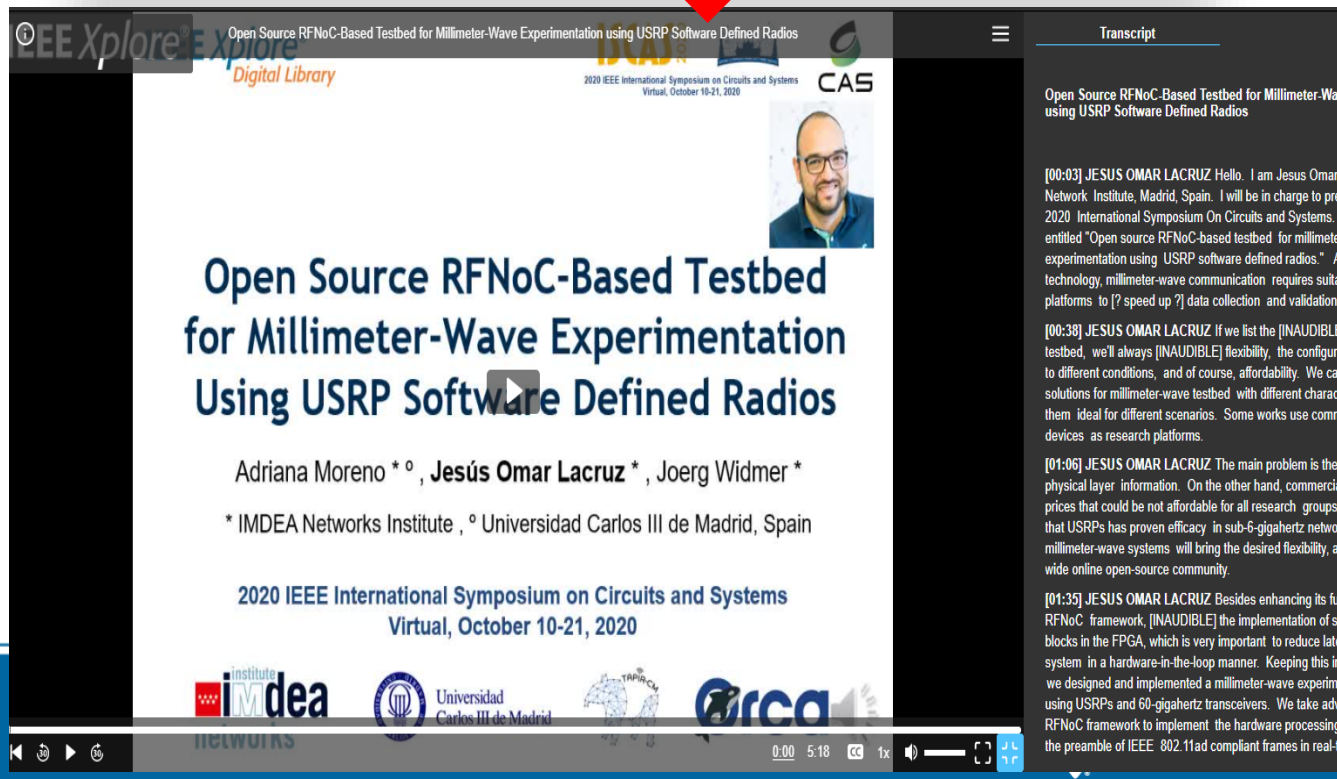

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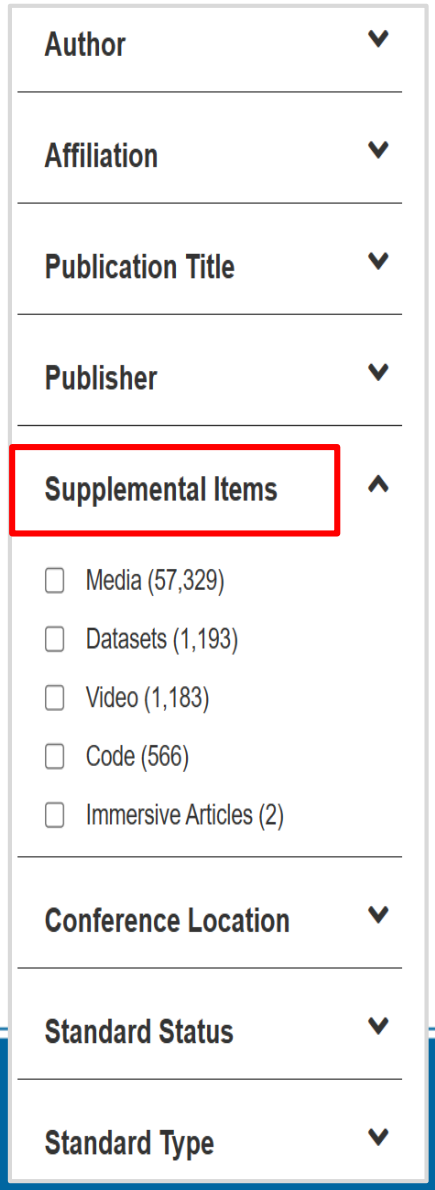

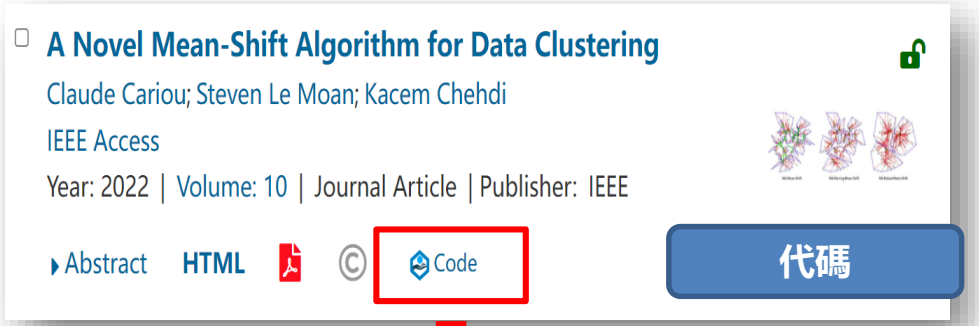

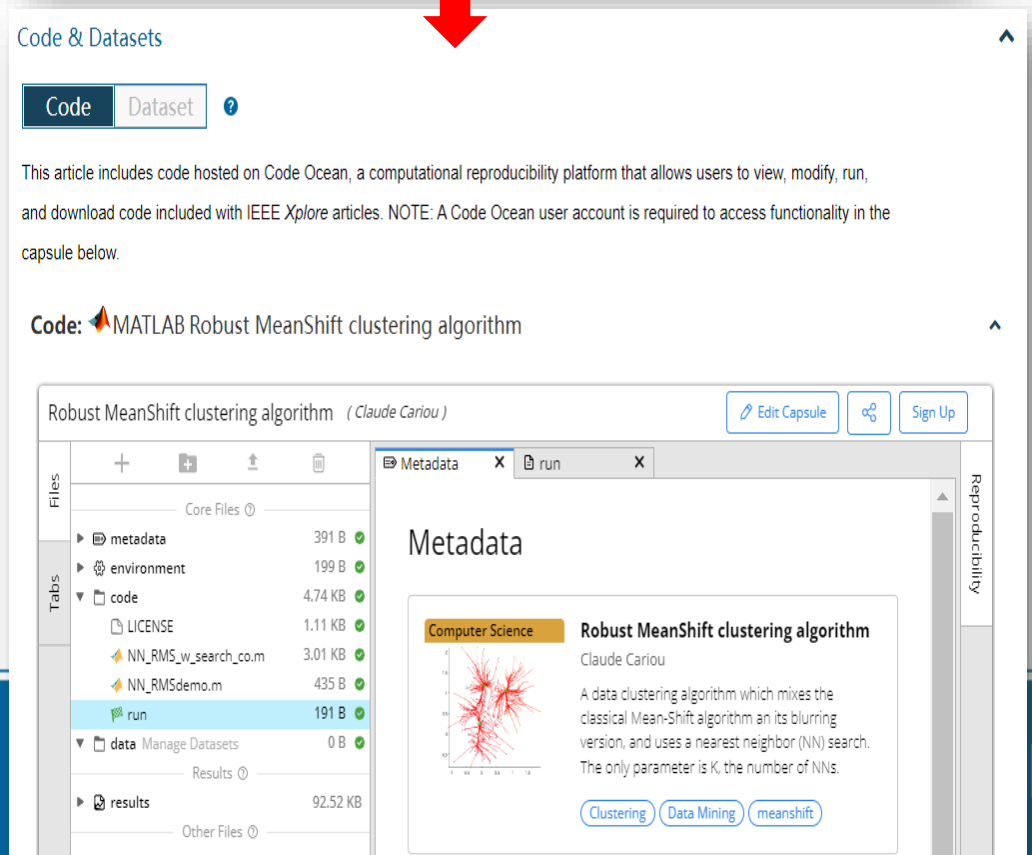

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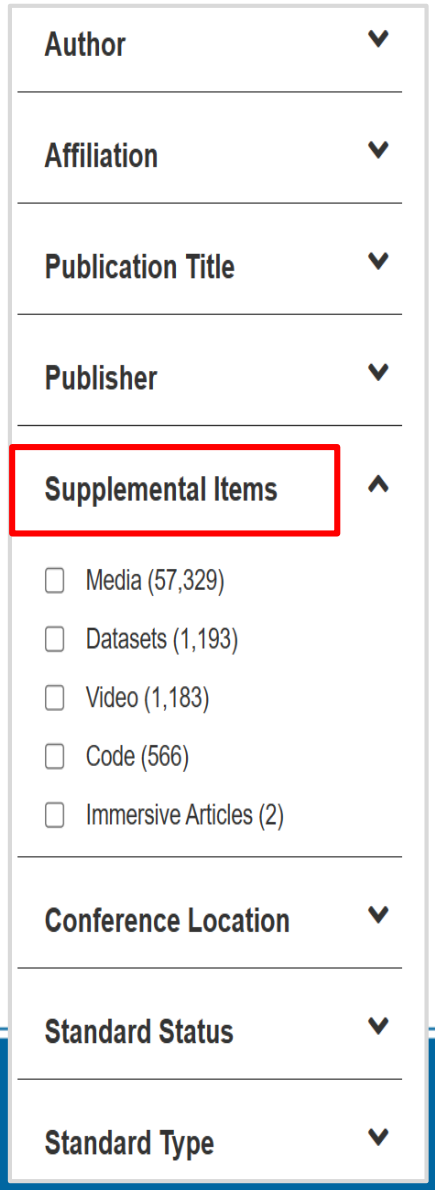

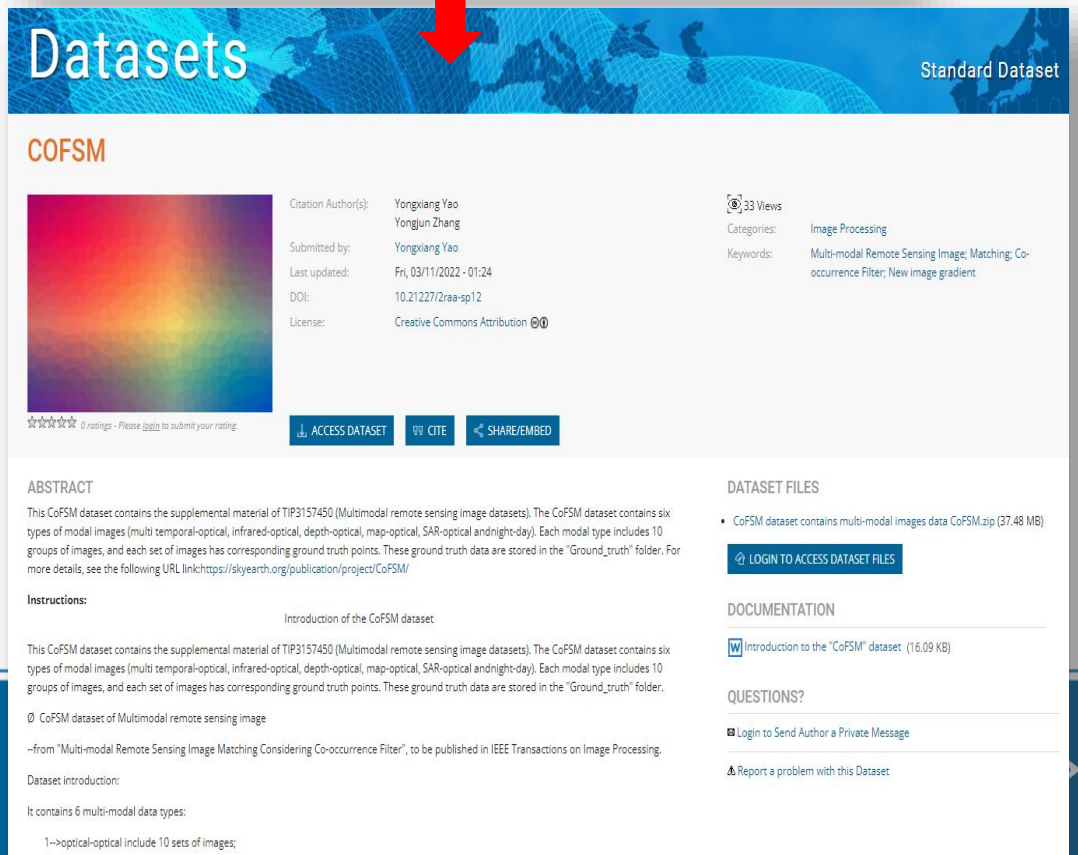

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Type-1 and Interval Type-2 Fuzzy Systems [AI- eXplained]

Dongrui Wu; Ruimin Peng; Jerry M. Mendel

IEEE Computational Intelligence Magazine

Year: 2023 | Volume: 18, Issue: 1 | Magazine Article | Publisher: IEEE

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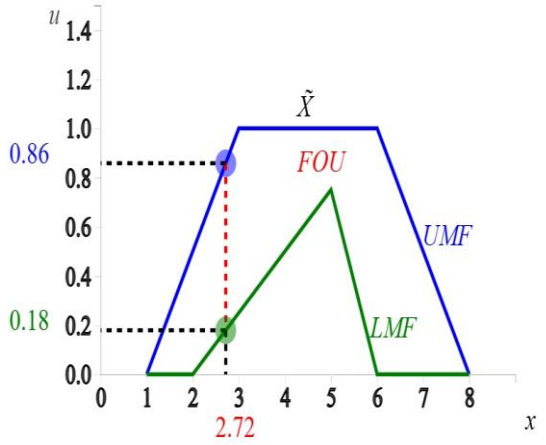

Figure 7:
Example of an IT2 fuzzy set. When the input x= 2.72, the membership interval is [0.18, 0.86], represented by the red dashed line.

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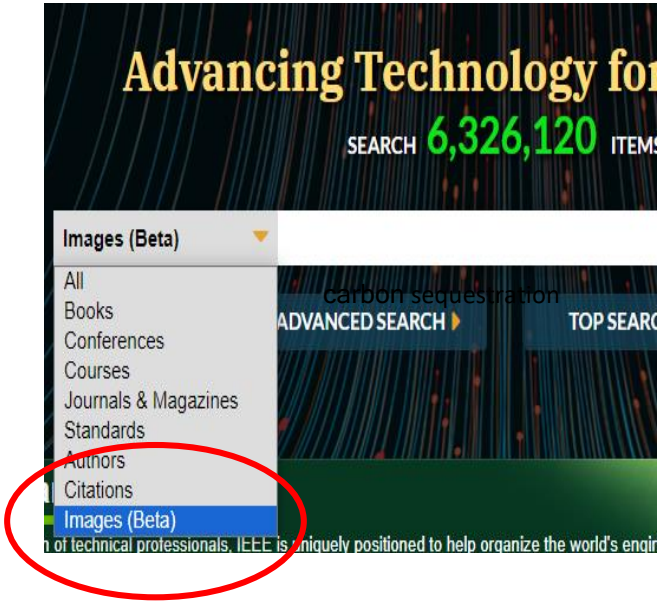

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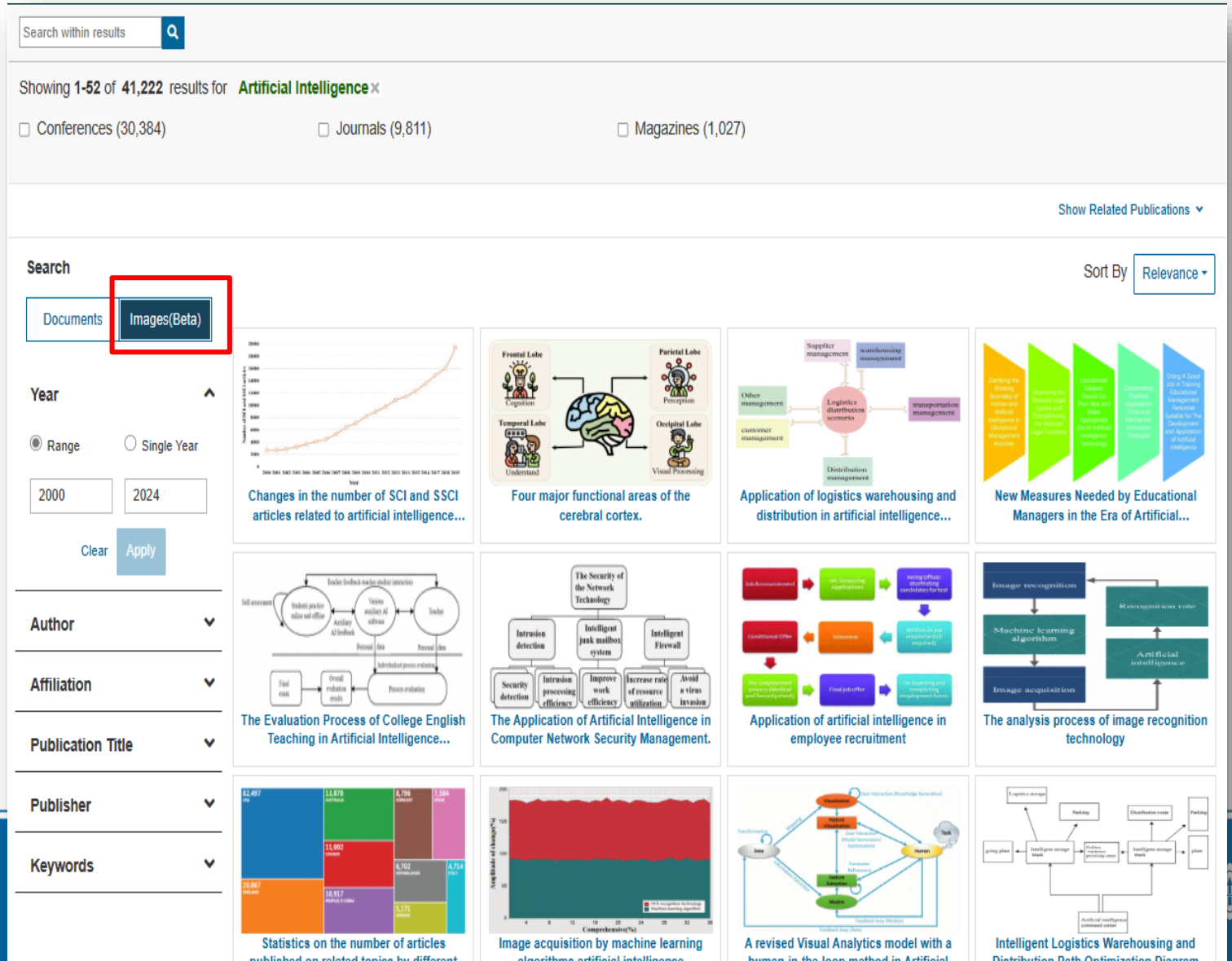

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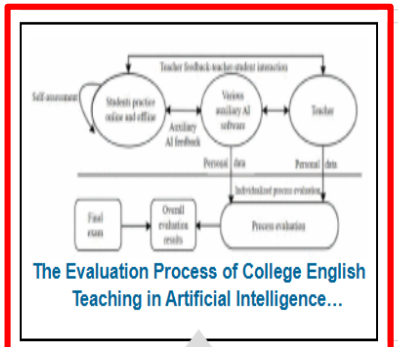

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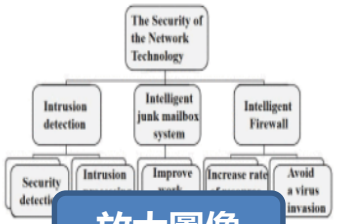

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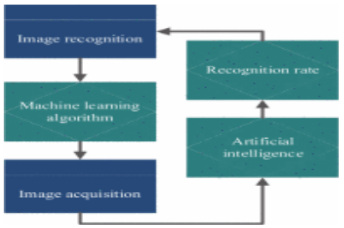

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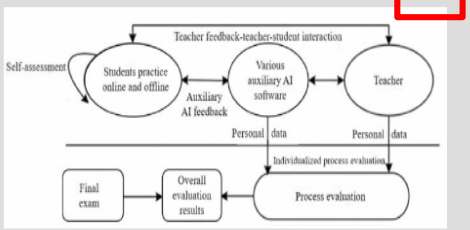

Figure 2.
The Evaluation Process of College English Teaching in Artificial Intelligence Environment

Research on College English Teaching Mode Based on Artificial Intelligence

Ma Yuan

2021

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2021 International Conference on Big Data Analysis and Computer Science (BDACS)

Abstract

With the continuous development of the times, one of the major challenges facing college English in China is how to reduce or eliminate "dumb English". Over the years, with the continuous progress of artificial intelligence technology, it has been deeply explored in different fields and levels, such as the understanding of language knowledge or the cognition of images. However, how artificial inte...

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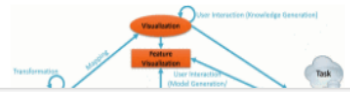

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connected to one or more mesh clients, which provide wireless access from the electrical devices to the mesh network. the locations of mesh routers and mesh clients are strategically planned. Mesh routers are positioned to ensure wireless link availability among them. Mesh clients are installed only at locations where critcial operation data need to be collected, and hence they do not provide seamless coverage over a large area. As one mesh client is enough to collect data at one site, different mesh clients are located far from one another. in addition, to minimize interference, the communication range of each mesh client is set to the minimum as long as it can communicate correctly with the devices from which it collects data. When their locations are planned carefully, the communication range of mesh clients may be limited within 100 meters. Because mesh routers and mesh clients are colocated in many places, they are wire-connected to reduce wireless interference further. We illustrate the structure of a wireless mesh network in Fig. 1. the IEEE 802.11 wireless technology will be an important option for the wireless mesh network construction in smart grid [3].

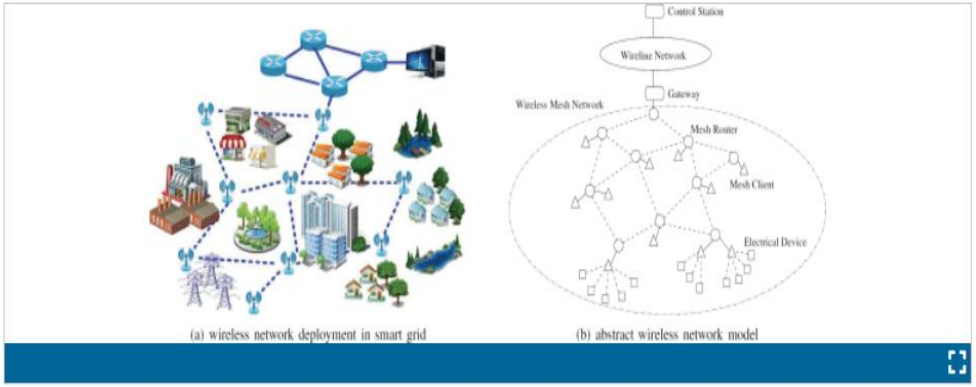

Fig. 1.
Wireless mesh network in the smart grid, where a solid line denotes a wireline link and a dash line denotes a wireless link.

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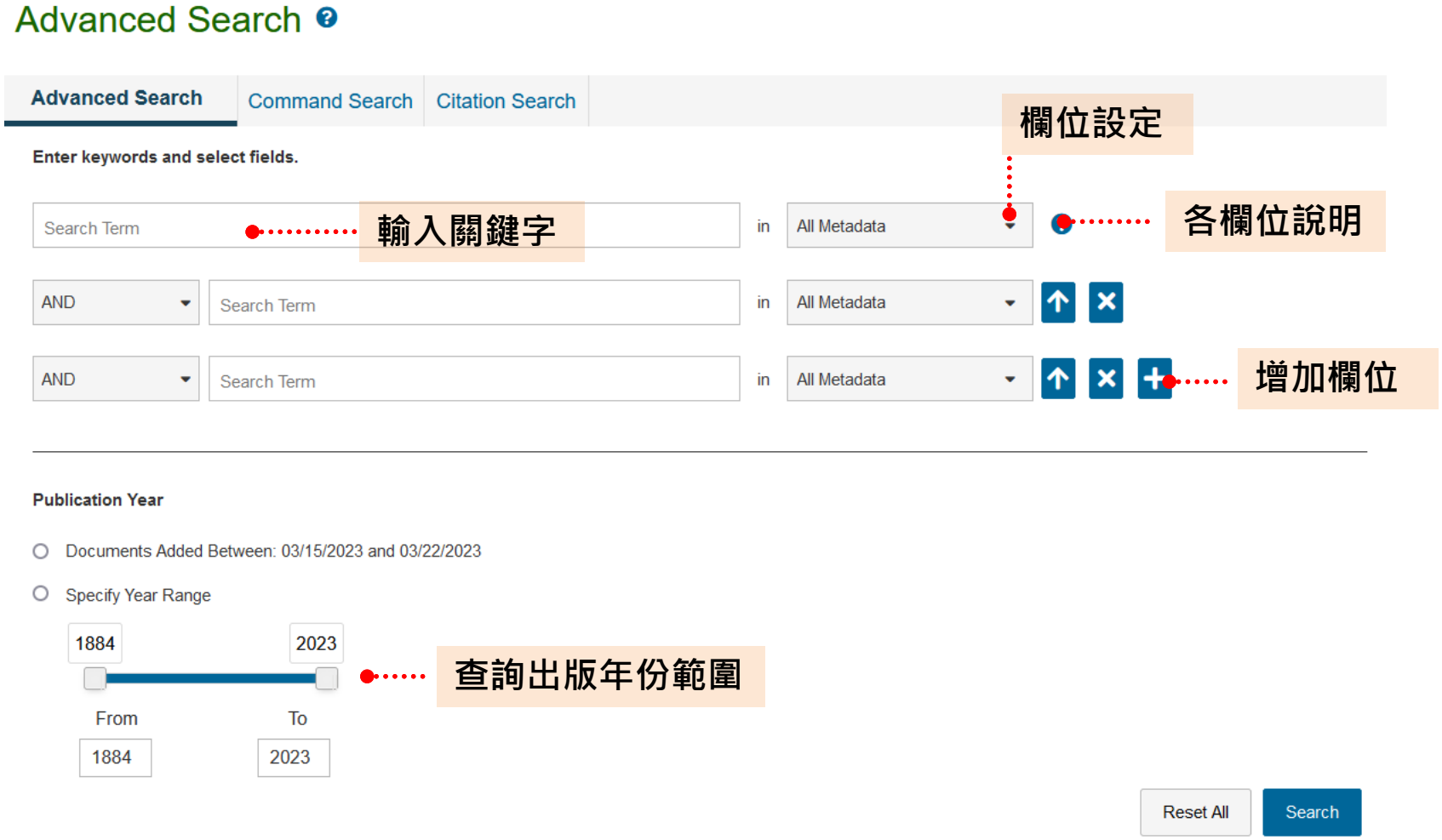

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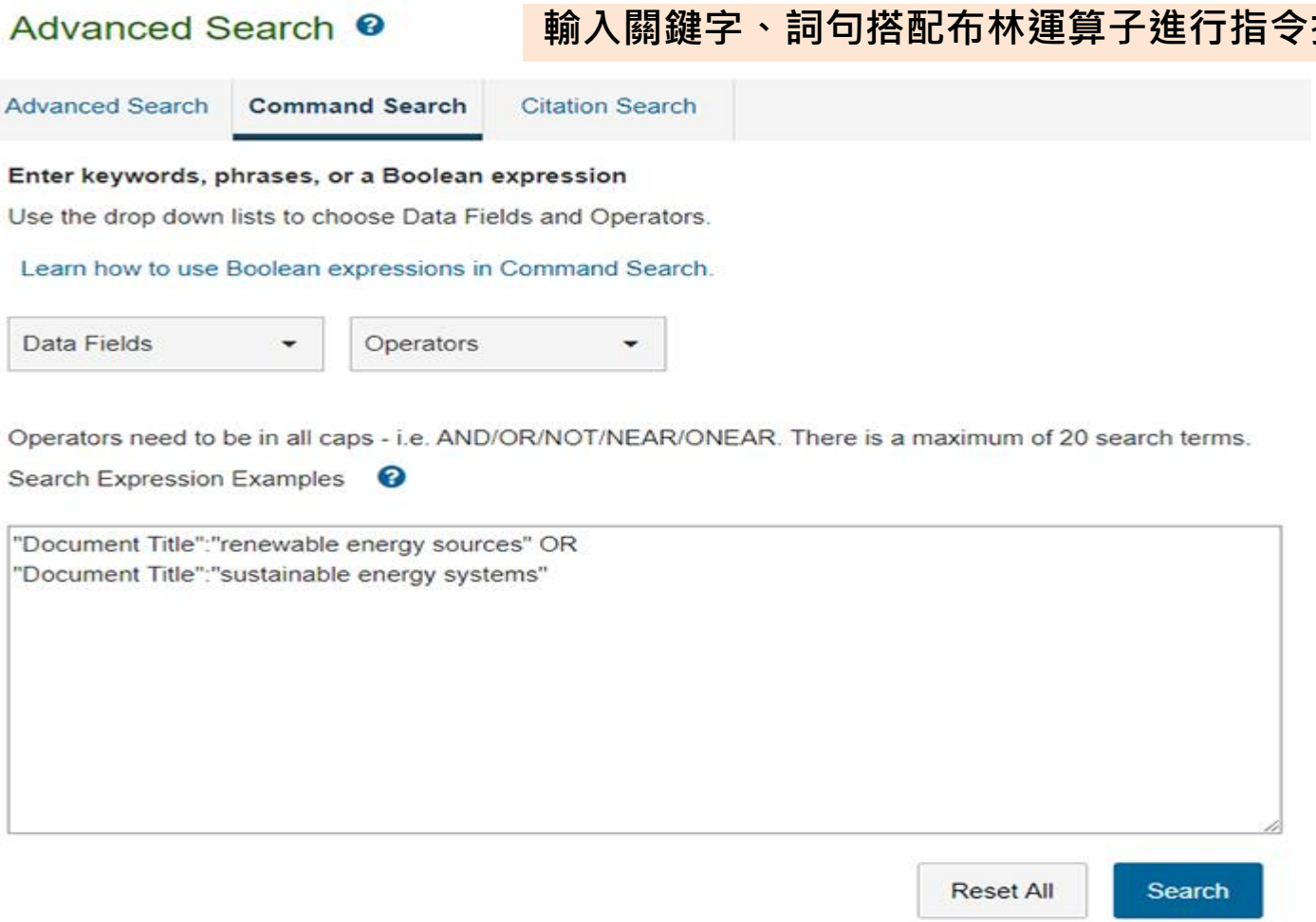
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Operators
Operators need to be in all caps - i.e. AND/OR/NOT/NEAR/ONEAR. There is a maximum of 20 search terms.
Search Expression Examples
"Document Title":"renewable energy sources" OR
"Document Title":"sustainable energy systems"
Reset All
Search

進階檢索介紹-引用搜尋

Advanced Search
Advanced Search
Command Search
Citation Search
Enter keywords or phrases
DOI
輸入DOI(Digital Object Identifier)查詢
OR
Publication Title
Volume
Issue
Year
Start Page
End Page
Author Name
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Article Sequence Number
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Reset All
Search

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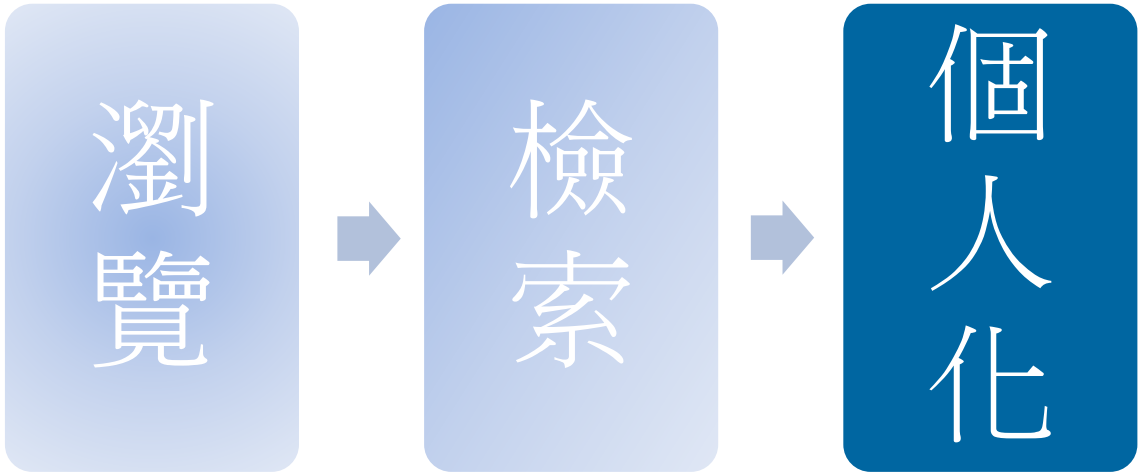
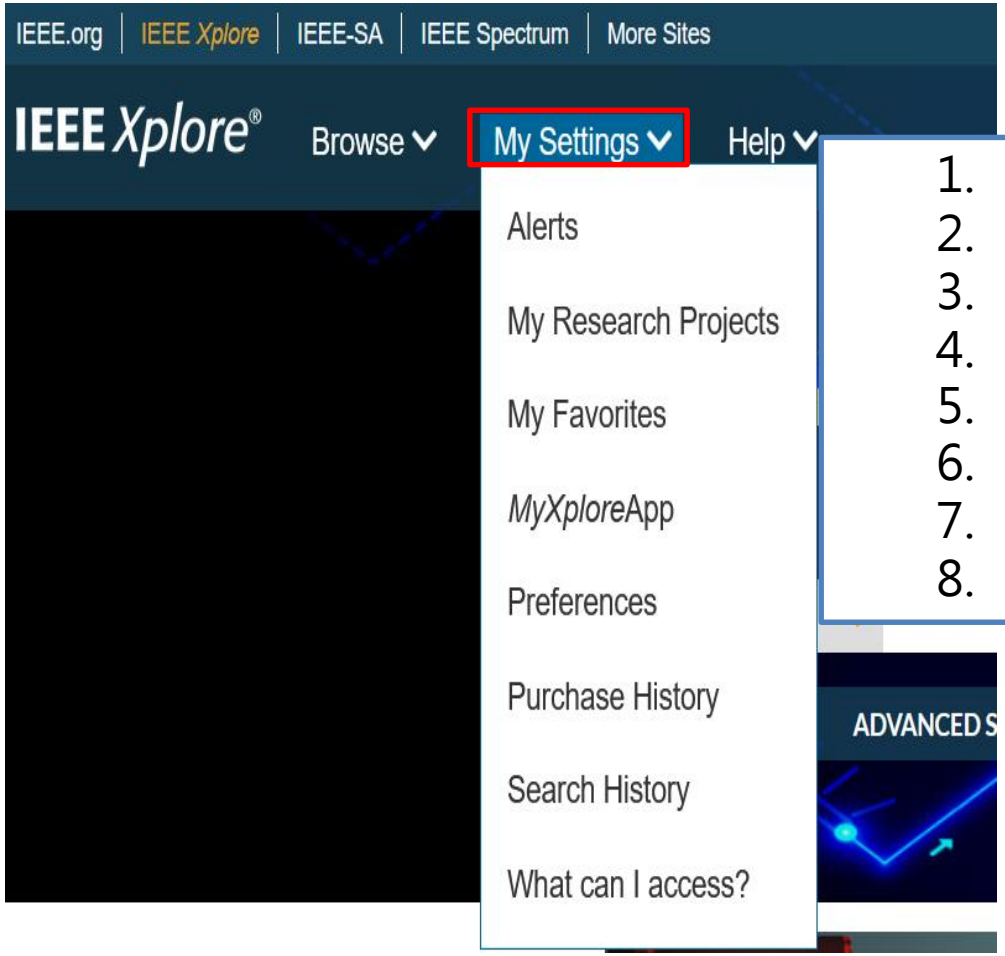


個人化設定 My Setting



1. 快報通知 (Alerts)
2. 我的研究項目(My Research Projects)
3. 我的最愛(My Favorites)
4. APP (MyXplore APP)
5. 搜尋偏好 (Preferences)
6. 訂閱紀錄(Purchase History)
7. 搜尋紀錄 (Search History)
8. 校內可查看內容(What can I access?)

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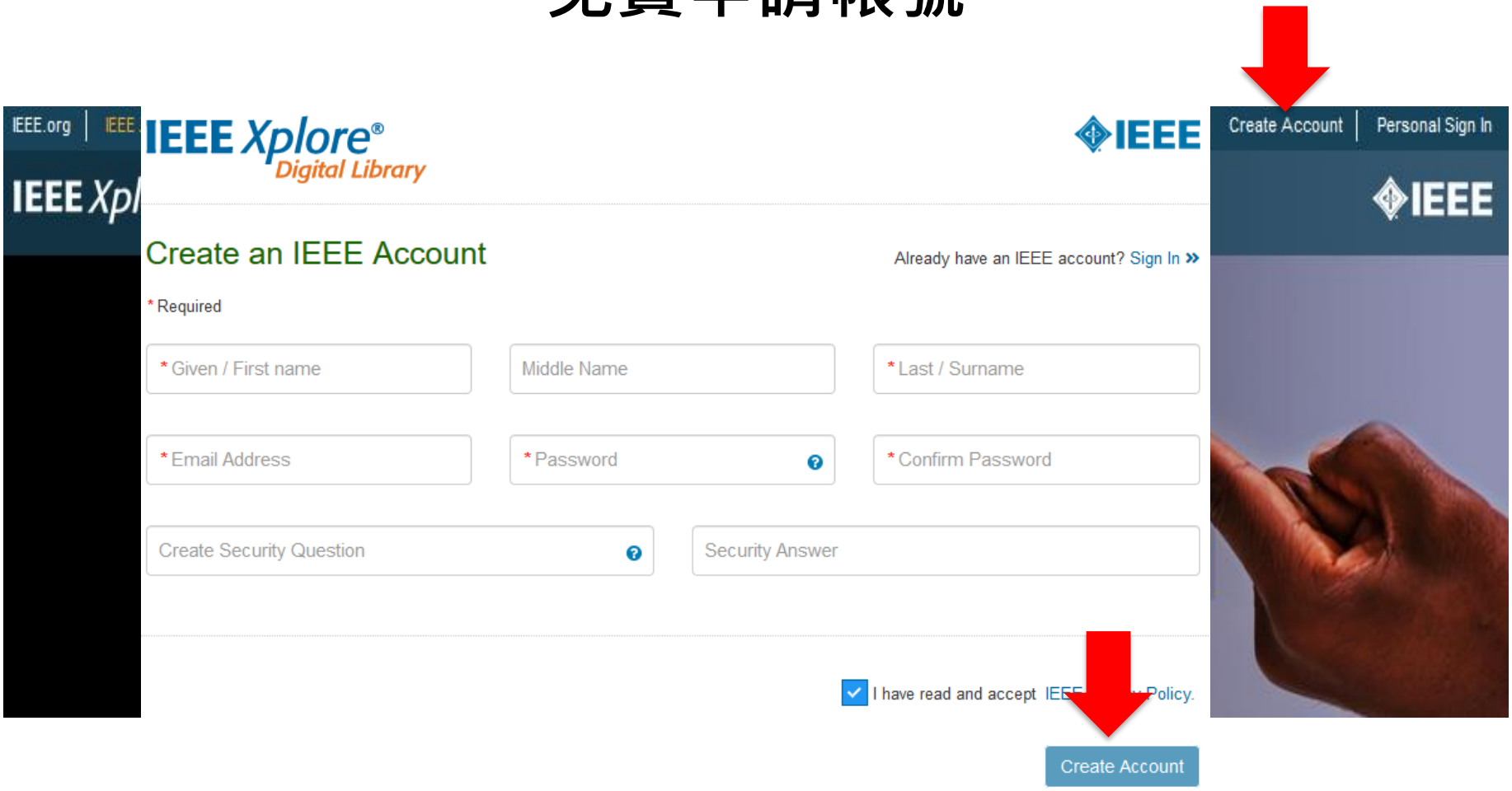
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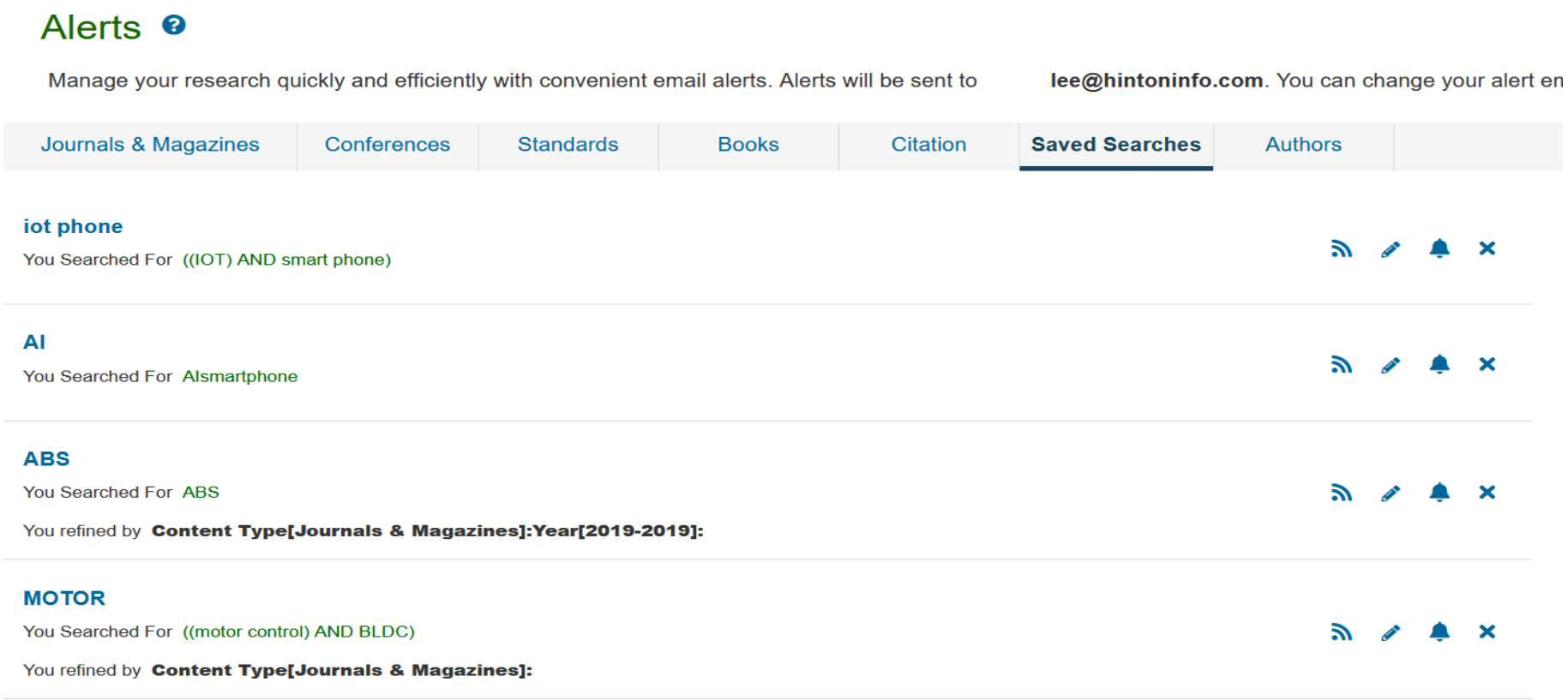

設定檢索條件通知(Set Saved Searches)

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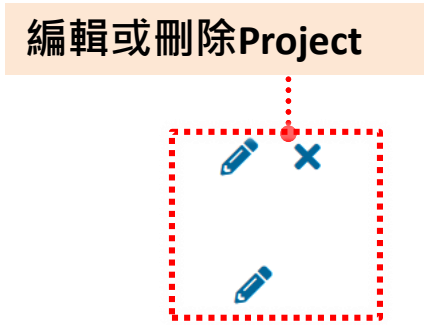
我的研究項目(My Research Projects)

分類、記錄並彙整您曾在Xplore上搜尋到的重要文獻



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Special Session: XTA: Open Source eXtensible, Scalable and Adaptable Tensor Architecture for AI Acceleration

Publisher: IEEE | Cite This | PDF

Ravikumar V Chakaravarthy ; Hua Jiang All Authors

898
Full
Text Views

將文獻存入Project

Abstract

Document Sections

I. Introduction

II. Background and Current Limitations

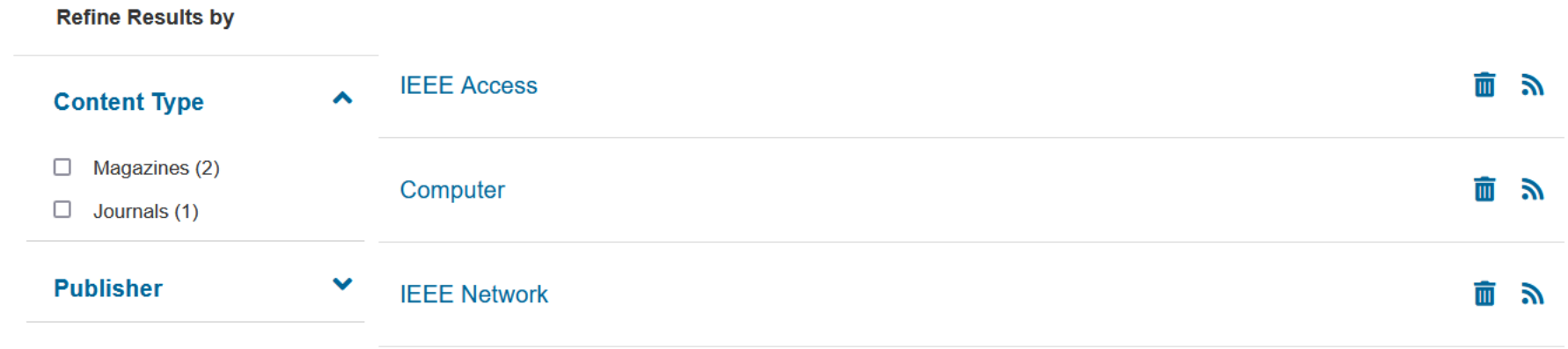
Abstract:

Accelerator frameworks have gained prominence since the advent of AI applications. The limitation with current open source accelerator solutions is that it was not designed to be scalable and adaptable for commercial MPSoC products that have different network requirements and higher performance goals. We have implemented a new AI accelerator framework, XTA, derived from TVM-VTA which is a popular, first known, open source backend AI accelerator for Xilinx MPSoC. XTA is scalable and adaptable to various network types and workloads of AI applications. XTA is a multi-core architecture that can dynamically scale and adapt to a given AI problem at both hardware and software layers. At the hardware layer it can adapt to compute

我的最愛(My Favorites)

My Favorite Journals & Magazines

可存取喜愛的期刊&雜誌



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即可加入我的最愛

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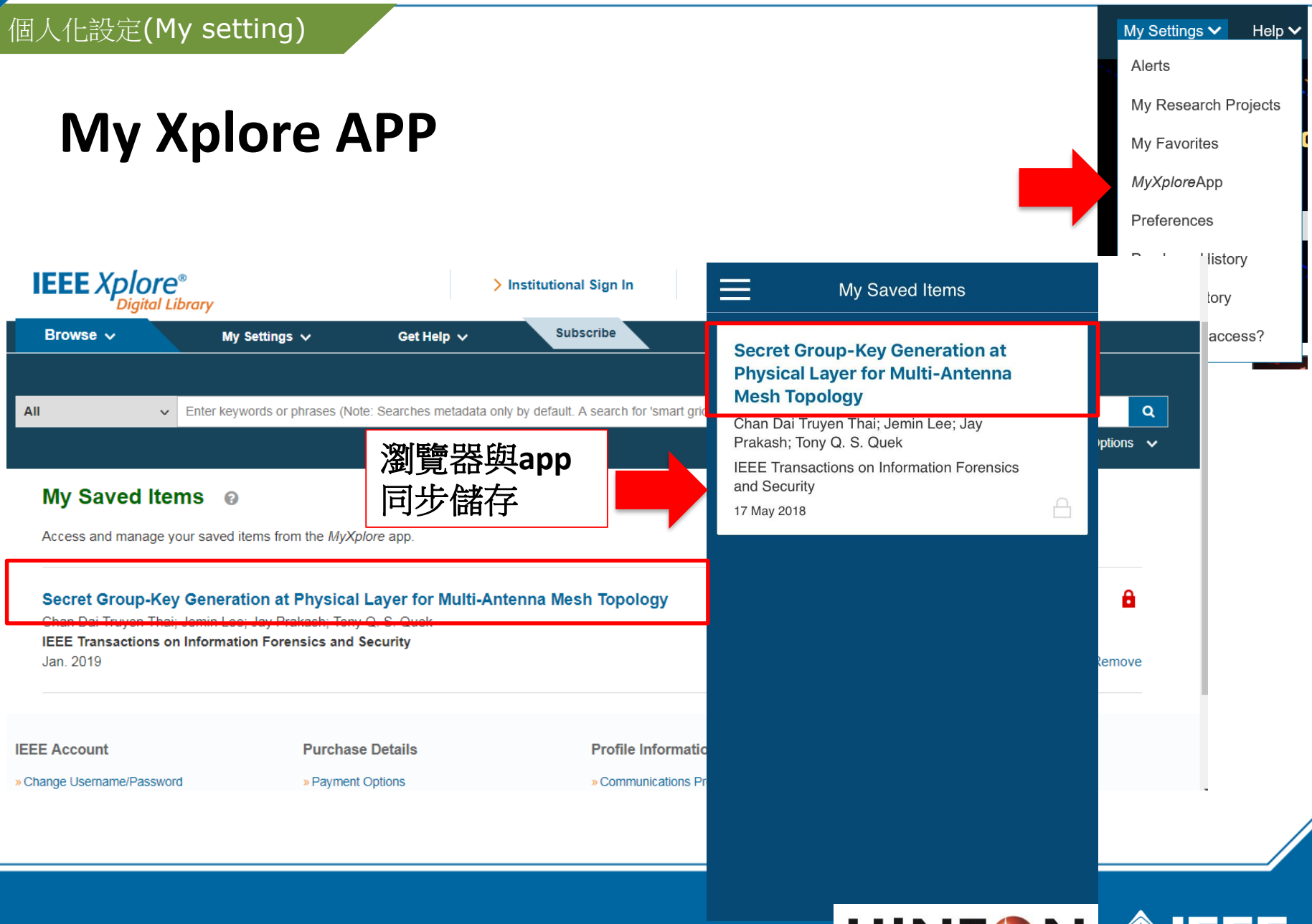
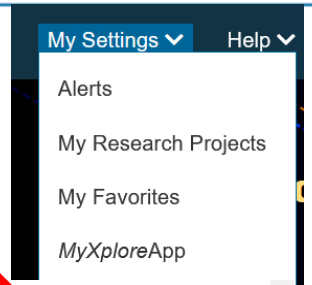


檢索偏好(Preference)



Preferences

Search Options

Search

All Metadata | Full Text & Metadata | Full Text Only

Search History Recording

On | Off

Results Layout

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Results Per Page: 25

Sort By: Relevance

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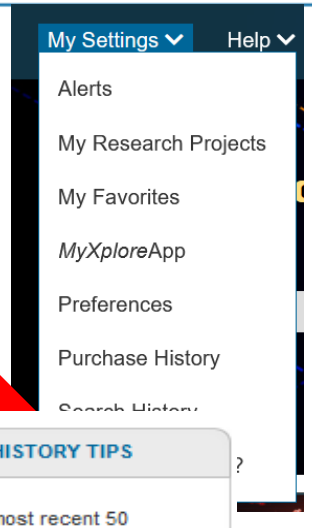

Search History

Search History provides an authoritative record of your queries. You can:

- rerun, modify, and combine previous searches
- review refinements and other details of a previous search
- store up to 50 previous searches on your account

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

Select multiple searches to combine them together.

#	Search Query	Details
☐35	("Author Affiliations":National Chung Hsing University)	1337 Metadata Sep. 21, 2017 18:20 UTC
☐34	National Chung Hsing University	1584 Metadata Sep. 21, 2017 18:18 UTC
☐33	fast steerable proncipal component analsis	12 Metadata Apr. 27, 2017 14:02 UTC
☐32	LTE, MIMO	2058 Metadata Mar. 3, 2017 21:08 UTC

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

Search alerts are not available for combined searches

生成式AI的使用

提交至 IEEE 會議或期刊的任何論文，如果使用了人工智慧（AI）生成的文字，應在 acknowledgements section 進行說明。

論文中使用 AI 生成文字的部分，應在引用來源註明所使用的 AI 系統。

Update	Citations to AI tools should use the **Software** format (IEEE Reference Guide, pp. 16-17) Format J. K. Author. *Title of Software*. Date Repository or Archive. (version or year). Publisher Name. Accessed: Date (when applicable). [Type of Medium]. Global Persistent Identifier. Available: site/path/file Example *ChatGPT*. (GPT-4). OpenAI. Accessed: Sep. 26, 2023. [Online]. Available: https://chat.openai.com/chat

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