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中原大學 2024/11/13

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# IEEE學會介紹



# The **I**nstitute of **E**lectrical and **E**lectronics **E**ngineers

電機電子工程師學會

# 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

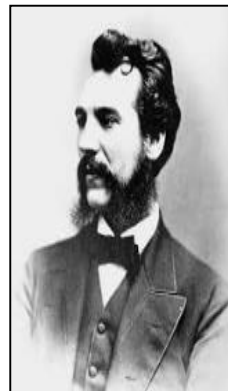
一起開會的場景嗎？

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，

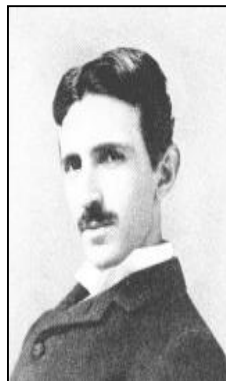
這是美國第一次舉行正式的電氣  
工程師技術會議



Thomas Edison



Alexander Graham Bell



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師技術會議

# IEEE 的歷史進程

1884

1912

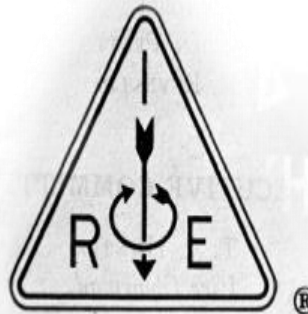
1963

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)



# IEEE 學會簡介

- 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40萬人
- 核心運作方式
  - IEEE會員
  - 舉辦研討會
  - 標準委員會制定標準
  - 出版期刊、會議論文、標準、電子書及線上課程
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智慧村莊計畫透過當地教育、企業資源，創建可持續性能源，讓撒哈拉以南非洲地區永續發展，  
網址:[smartvillage.ieee.org](http://smartvillage.ieee.org)



## IEEE 應對氣候變遷行動

IEEE開發了關於氣候變化的精選文章內容，在IEEE Xplore上可以找到。  
網址:[climate-change.ieee.org](http://climate-change.ieee.org)

# IEEE 運作方式

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43萬人



- 300多個地方分會
- 2000多個專業委員會
- 3000多個學生分會遍佈100多個國家



- IEEE Aerospace and Electronic Systems Society
- IEEE Antennas and Propagation Society
- IEEE Broadcast Technology Society
- IEEE Circuits and Systems Society
- IEEE Communications Society
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- IEEE Computer Society
- IEEE Consumer Electronics Society
- IEEE Control Systems Society
- IEEE Dielectric and Electrical Insulation Society
- IEEE Educational Activities Council
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- IEEE Geoscience and Remote Sensing Society
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- IEEE Oceanic Engineering Society
- IEEE Photonics Society
- IEEE Power Electronics Society
- IEEE Power & Energy Society
- IEEE Product Safety Engineering Society

# 39個專業分會

## IEEE Societies

- IEEE Systems, Man, and Cybernetics Society
- IEEE Technology and Engineering Management Society
- IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society
- IEEE Vehicular Technology Society

# IEEE高品質文獻產生影響力

Refer to: Journal Citation Reports® (JCR®)

## IEEE publishes:

- **15 of the top 20** journals in **Electrical and Electronic Engineering**
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- **The top 3** journals in **Computer Science: Cybernetics**
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- **3 of the top 5** journals in **Computer Science: Artificial Intelligence**
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- **2 of the top 5** journals in **Computer Science: Software Engineering**
- **3 of the top 5** journals in **Imaging Science and Photographic Technology**

Source: Journal Citation Reports (Clarivate Analytics, 2023)

每年，Web of Science Group 的期刊引用報告 (JCR) 檢視學術研究期刊的影響力和影響。JCR展示了引用和被引用期刊之間的關係，提供了一種系統性、客觀的方法來評估全球領先期刊

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在最新的報告中，在多個類別中，IEEE持續高列最常被引用的期刊。

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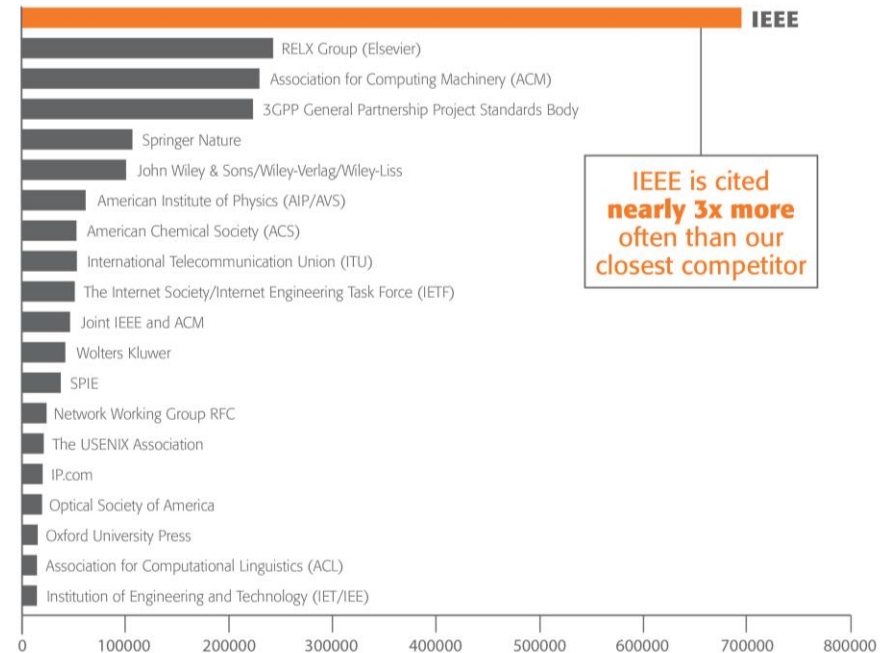
- 10 of the top 20 journals in **Electrical Engineering**
- 9 of the top 20 journals in **Computer Networks and Communications**
- 7 of the top 20 journals in **Signal Processing**
- 8 of the top 20 journals in **Computer Software**
- 3 of the top 5 journals in **Computational Theory and Mathematics**
- 3 of the top 5 journals in **Automotive Engineering**
- 3 of the top 5 journals in **Applied Mathematics**
- 3 of the top 5 journals in **Control & Systems Engineering**
- 2 of the top 5 journals in **Acoustics and Ultrasonics**



# IEEE文獻推動專利技術發展

## Number of U.S. Patent References from Top 50 Companies to Top 20 Publishers

- 自1997年以來，IEEE在專利的引用上增長了864%以上
- 科技文獻在專利中的重要性日益增加
- IEEE在人工智能、自動駕駛車輛和物聯網相關專利中佔有主導地位



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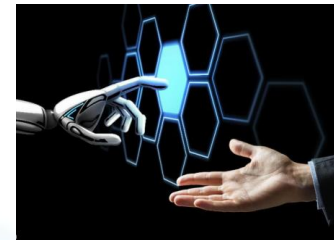
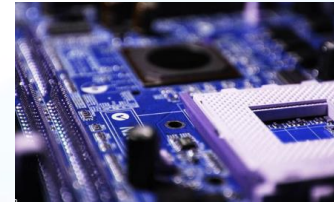
These new journal titles will soon be available and accessible via subscription:

2023:

- *IEEE Transactions on **AgriFood Electronics***
- *IEEE **Electron Devices Magazine***
- *IEEE Transactions on **Energy Markets, Policy, and Regulation***
- *IEEE Transactions on **Industrial Cyber-Physical Systems***
- *IEEE Transactions on **Radar Systems***

2024:

- *IEEE Transactions on **Circuits and Systems for Artificial Intelligence***
- *IEEE Transactions on **Materials for Electron Devices***
- *IEEE Transactions on **Field Robotics***
- *IEEE **Reliability Magazine***
- *IEEE **Robotics and Automation Practice***



# IEEE 全球舉辦研討會

為新興技術與科技領域持續注入研究能量

## Conferences Published in 2023 Innovative Technologies

- 2023 IEEE International Conference on **Acoustics, Speech and Signal Processing** (ICASSP)
- 2023 IEEE/SEMI Conf on **Advanced Semiconductor Manufacturing**
- 2023 IEEE 2nd International Conference on **AI in Cybersecurity**
- 2023 IEEE 21st Symposium on **Applied Machine Intelligence and Informatics** (SAMI)
- 2023 3rd International Conference on **Artificial Intelligence and Smart Energy** (ICAIS)
- 2023 IEEE 8th International Conference on **Big Data Analytics** (ICBDA)
- 2023 6th Conference on **Cloud and Internet of Things** (CIoT)
- 2023 IEEE 20th Consumer **Communications & Networking** Conference (CCNC)
- 2023 **Optical Fiber Communications** Conference (OFC)
- 2023 7th International Conference on **Green Energy and Applications** (ICGEA)
- 2023 IEEE Innovative **Smart Grid Technologies** Conference (ISGT)
- 2023 IEEE Conference on **Power Electronics and Renewable Energy** (CPERE)
- 2023 IEEE IAS Global Conference on **Renewable Energy and Hydrogen Technologies**
- 2023 International Conference on **Robotics and Automation in Industry** (ICRAI)



# IEEE 標準制定

**IEEE SA** STANDARDS ASSOCIATION

- IEEE 標準協會 IEEE-SA
- IEEE現有42個主持標準化工作的專業學會及委員會
- 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。
- 主要標準主題：
  - Information Technology
  - Power and Energy
  - Smart Grid Research
  - Telecommunications
  - Test Suite Specifications



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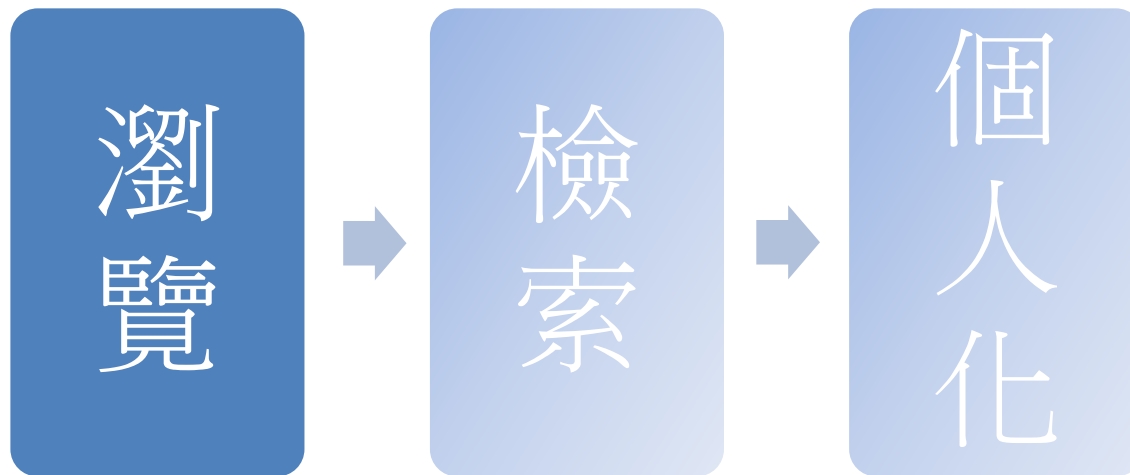
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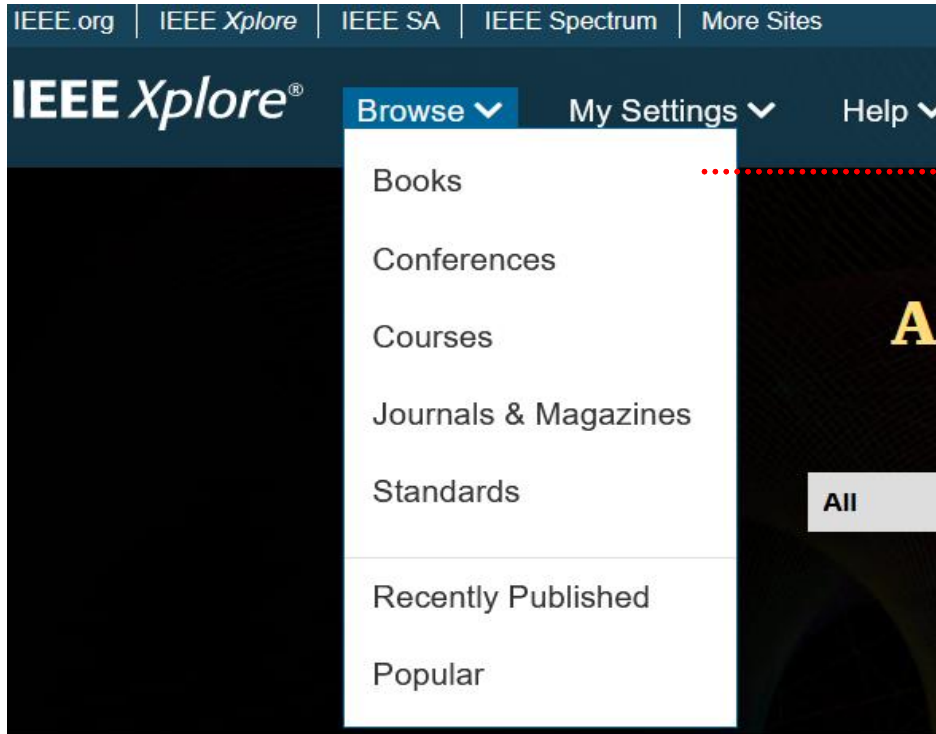
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<b>5</b> MAY	2023 IEEE Vision, Innovation, and Challenges Summit (IEEE VIC Summit) & Honors Ceremony <a href="#">REGISTER</a> <a href="#">ABOUT</a>	<a href="#">📅 5 MAY 2023   ATLANTA, GEORGIA, USA</a>
<b>21</b> MAY	2023 IEEE International Symposium on Circuits and Systems (ISCAS) <a href="#">REGISTER</a> <a href="#">ABOUT</a>	<a href="#">📅 21-25 MAY 2023   MONTEREY, CALIFORNIA, USA</a>
<b>29</b> OCT	2023 IEEE/ACM International Conference on Computer Aided Design (ICCAD) <a href="#">CALL FOR PAPERS</a> <a href="#">ABOUT</a>	<a href="#">📅 29 OCT-2 NOV 2023   SAN FRANCISCO, CALIFORNIA, USA</a>

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**Journal of Communications and Information Networks**

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**Journal of Communications and Networks**

Publisher: KICS Years: 1999 - Present [Most Recent Issue](#)

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The articles in this journal are peer reviewed in accordance with the requirements set forth in the *IEEE PSPB Operations Manual* (sections 8.2.1.C & 8.2.2.A). Each published article was reviewed by a minimum of two independent reviewers using a single-blind peer review process, where the identities of the reviewers are not known to the authors, but the reviewers know the identities of the authors. Articles will be screened for plagiarism before acceptance.

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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

Cited by: Papers (1512)

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**Integrating Sensing and Communications for Ubiquitous IoT: Applications, Trends, and Challenges** 

Yuanhao Cui; Fan Liu; Xiaojun Jing; Junsheng Mu

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

Cited by: Papers (87)

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Journals & Magazines > IEEE Network > Volume: 34 Issue: 3

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

Publisher: IEEE

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### Abstract

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» Introduction

» 6G Driving Applications, Metrics, and New Service Classes

» 6G: Enabling Technologies

» 6G: Research Agenda and Open Problems

» Conclusion and Recommendations

Authors

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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.

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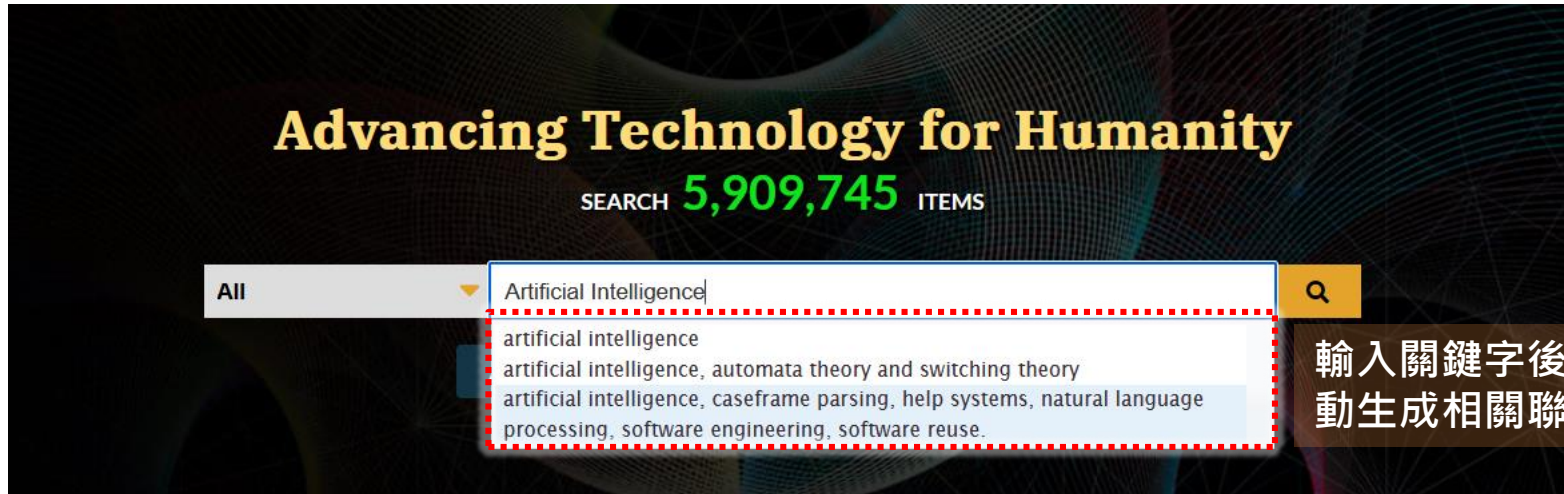
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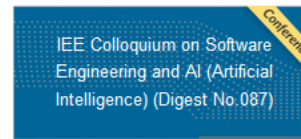
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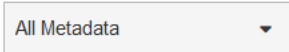


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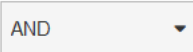

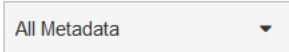



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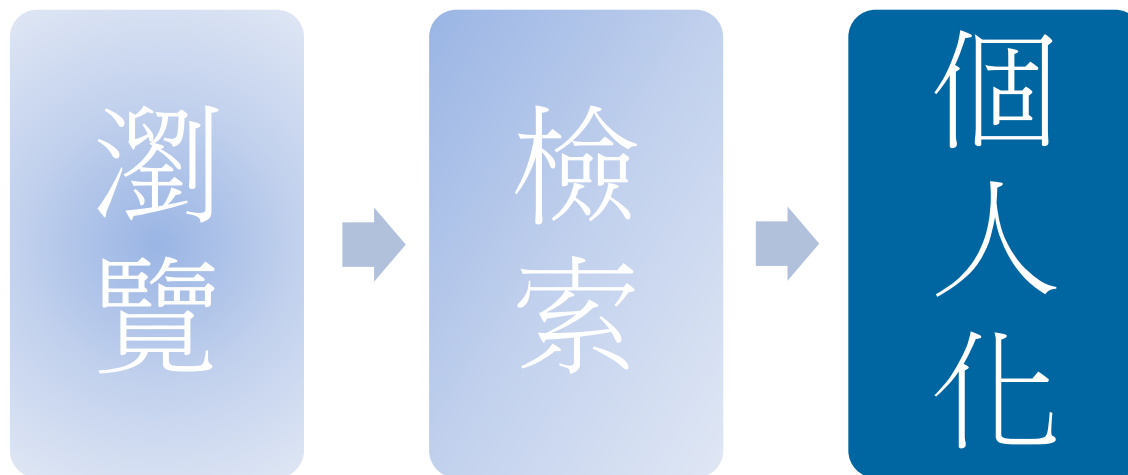
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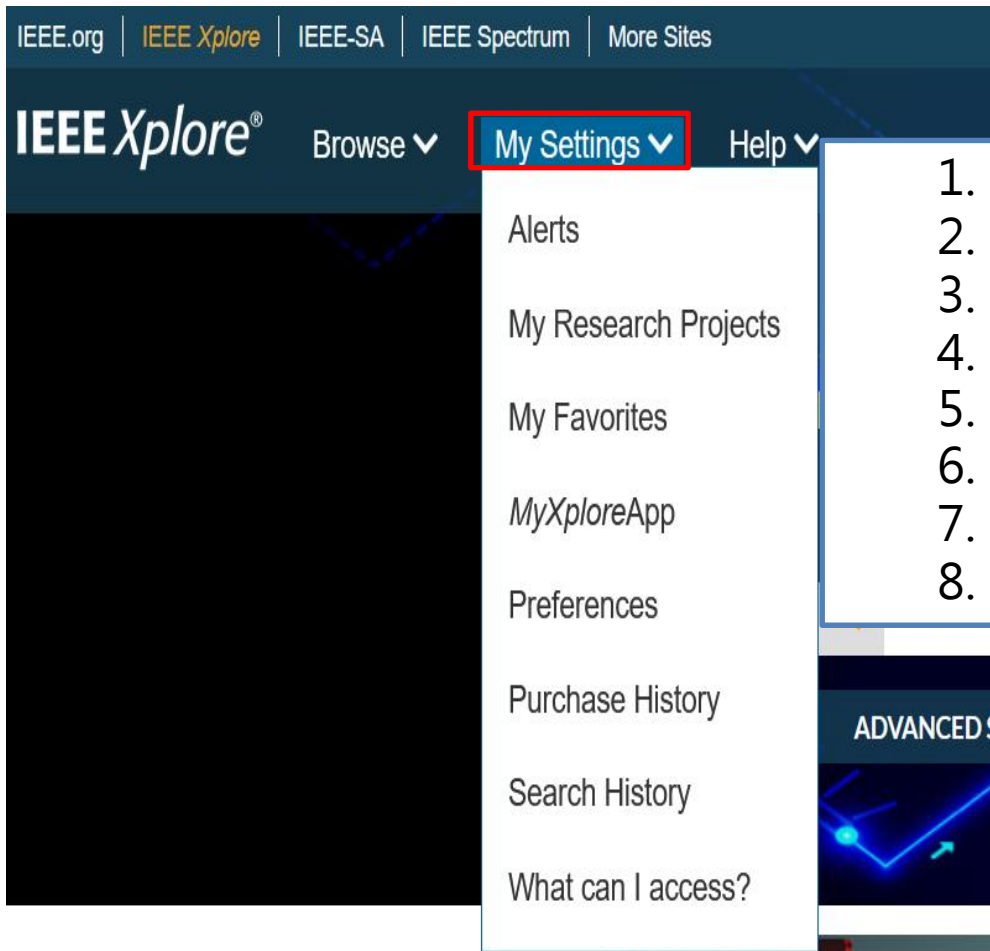
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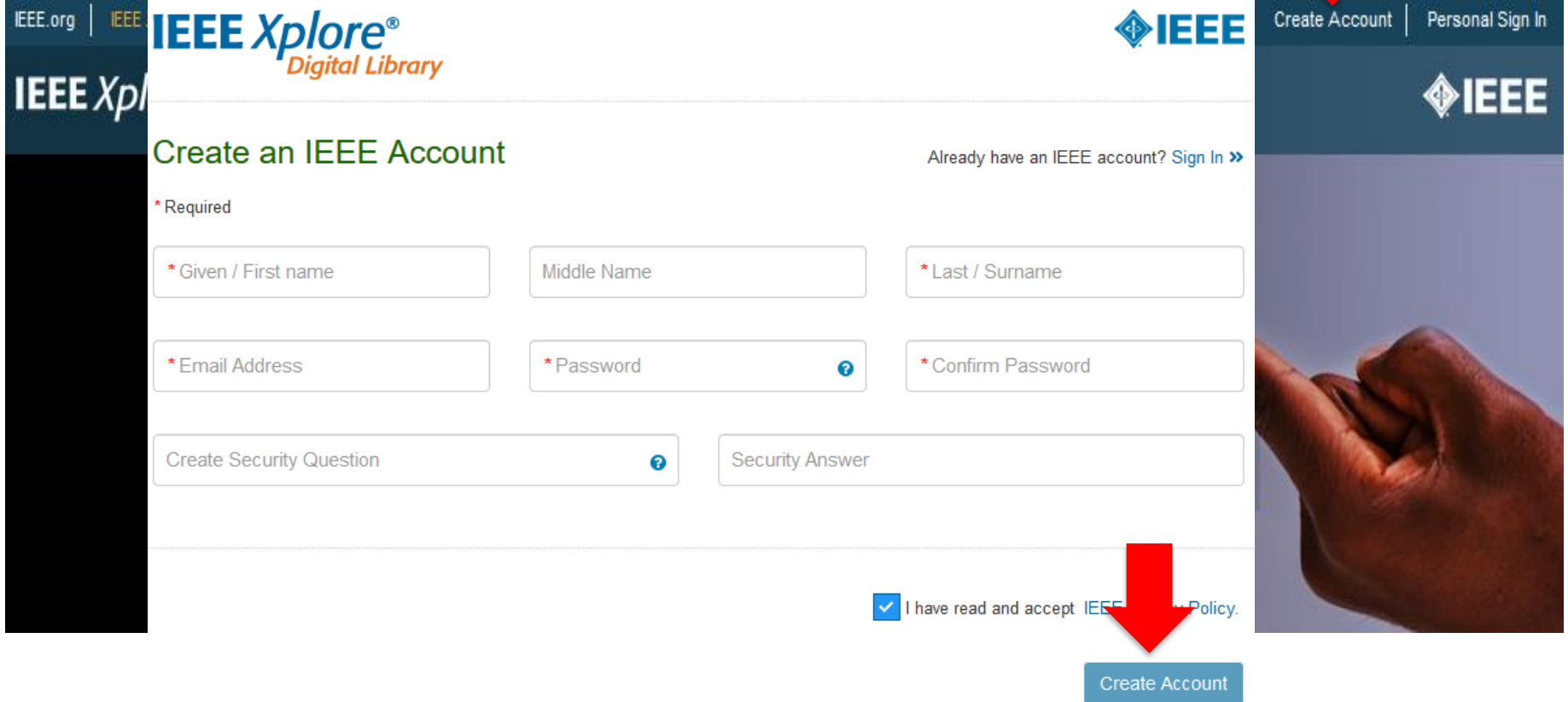
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The screenshot shows the IEEE Xplore search results page for the query 'iot'. The search bar at the top contains 'Journals & Magazines' and 'iot'. Below the search bar, there are options for 'Advanced Search' and 'Other Search Options'. The results section shows 'Displaying results 1-25 of 40 for iot x mobile x phone x'. A red dashed box highlights the search filters: 'Journals & Magazines x Early Access Articles x 2017-2018 x'. Below the filters, there are checkboxes for 'Conferences (219)', 'Courses (3)', and 'Books (2)'. A red dashed box highlights the 'Set Search Alerts' button. A callout box titled '完成檢索條件' (Complete search conditions) points to the filters. Another callout box titled '輸入檢索條件的名稱' (Enter the name of the search conditions) points to the 'Set Alert' dialog box. The dialog box has a field for 'Search Alert Name\*' and an 'Email Address' field with the value 'sharon.hsu@hintoninfo.com'. A red dashed box highlights the 'Search Alert Name\*' field. A callout box titled '建立檢索通知' (Create search notification) points to the dialog box. The main search results list includes the article 'Experimental Characterization of Mobile IoT Application Latency' by Carlos Pereira, António Pinto, Duarte Ferreira, and Ana Aguiar. The article is from the IEEE Internet of Things Journal, Year: 2017, Volume: 4, Issue: 4, Pages: 1082 - 1094. The article is cited by 1 paper. The article is available in HTML and PDF (1357 Kb) formats. The abstract text is: 'The Internet of Things (IoT) emerges as a myriad of devices and services that interact to build complex distributed applications. Interoperability and standardization are imperative for the'. There are also sidebars for 'Year' (Single Year, Range) and 'Author'. A 'Full-Text' banner for IEEE Xplore is visible on the right side of the page.

# 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

## My Research Projects

Create a New Project

建立新的Project

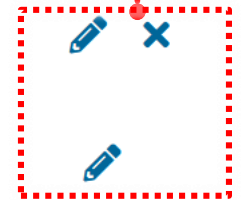
AI

1 Document(s)

Project Created: Feb 17, 2022

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# 存入重要文獻至您的Project

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

Publisher: **IEEE**

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Ravikumar V Chakaravarthy ; Hua Jiang [All Authors](#)

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### 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 ?

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Refine Results by

### Content Type



IEEE Access



Magazines (2)

Journals (1)

Computer



### Publisher



IEEE Network





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17 May 2018

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IEEE Transactions on Information Forensics and Security  
17 May 2018  
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# 檢索偏好(Preference)

## Preferences [?](#)

### Search Options

Search

All Metadata	Full Text & Metadata	Full Text Only <a href="#">?</a>
--------------	----------------------	----------------------------------

Search History Recording

On	Off
----	-----

### Results Layout

Title Only	Title & Citation	Title, Citation & Abstract
------------	------------------	----------------------------

Results Per Page

25
----

Sort By

Relevance
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### Publisher

- ALL
- IEEE
- IET
- MITP
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### Citation Download Options

Include

Citation Only	Citation & Abstract
---------------	---------------------

Format

Plain Text	BibTex	RIS	RefWorks
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### Email Alert Options

This will only be used for receiving e-mail alerts from IEEE Xplore. Changing this will not affect the e-mail address associated with your IEEE Account. [Learn more](#)

sharon.hsu@hintoninfo.com
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- Alerts
- My Research Projects
- My Favorites
- MyXploreApp



# 檢索紀錄 (Search History)

## 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
<input type="checkbox"/> 35	("Author Affiliations":National Chung Hsing University)	1337 Metadata Sep. 21, 2017 18:20 UTC
<input type="checkbox"/> 34	National Chung Hsing University	1584 Metadata Sep. 21, 2017 18:18 UTC
<input type="checkbox"/> 33	fast steerable prncipal component anlisis	12 Metadata Apr. 27, 2017 14:02 UTC
<input type="checkbox"/> 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

# 了解更多IEEE Xplore®運用

- 觀看線上教學影片：  
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- 線上申請LIVE教育訓練：  
[www.ieee.org/go/training](http://www.ieee.org/go/training)
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[www.ieee.org/ieeexplore](http://www.ieee.org/ieeexplore)

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The use of artificial intelligence (AI)–generated text in an article **shall be disclosed in the acknowledgements section of any paper** submitted to an IEEE Conference or Periodical. The sections of the paper that use AI-generated text shall have a **citation to the AI system** used to generate the text.

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

## Update

## Example

*ChatGPT*. (GPT-4). OpenAI. Accessed: Sep. 26, 2023. [Online]. Available: <https://chat.openai.com/chat>

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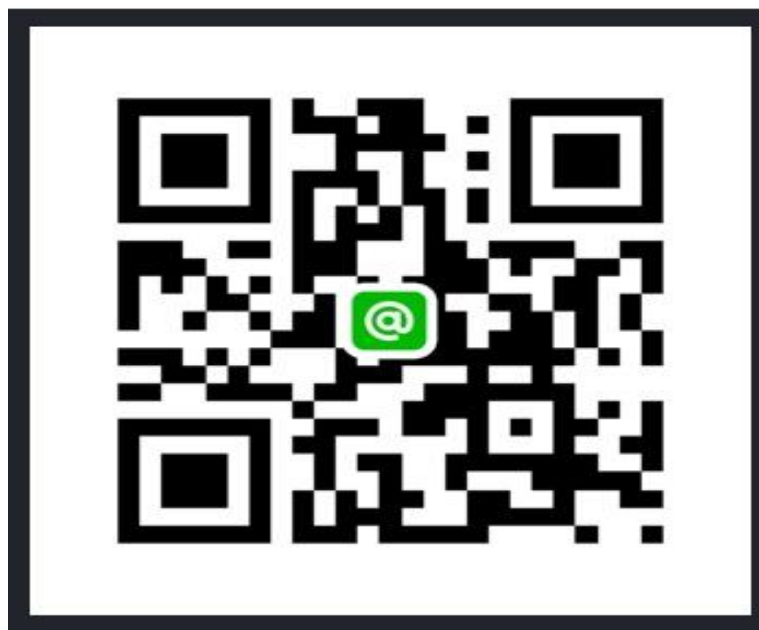
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