

# IEEE Xplore® 全文電子資料庫

學術講師 *Virginia* 陳佳慧  
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# IEEE Xplore<sup>®</sup> 全文電子資料庫

## ➤ 認識 IEEE Xplore<sup>®</sup>

- 1) 學會組織介紹
- 2) 收錄文獻類型

## ➤ IEEE Xplore<sup>®</sup> 平台功能

- 1) 瀏覽功能
- 2) 檢索功能
- 3) 個人化設定





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

電機電子工程師學會

# 最完整最具價值的參考資料庫



**IEEE 美國電子電機工程師學會**

(Institute of Electrical and Electronic Engineers)



**IET 英國電機工程師學會**

(Institute of Engineering and Technology)



# IEEE

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
- IEEE Computational Intelligence Society
- IEEE Computer Society
- IEEE Consumer Electronics Society
- IEEE Control Systems Society
- IEEE Dielectric and Electrical Insulation Society
- IEEE Educational Activities Council
- IEEE Electron Devices Society
- IEEE Electron Packaging Society
- IEEE Electron Devices Society
- IEEE Engineering in Medicine and Biology Society
- IEEE Geoscience and Remote Sensing Society
- IEEE Industrial Electronics Society
- IEEE Industry Applications Society
- IEEE Information Theory Society
- IEEE Instrumentation and Measurement Society
- IEEE Intelligent Transportation Systems Society
- IEEE Magnetics Society
- IEEE Microwave Theory and Techniques Society
- IEEE Nuclear and Plasma Sciences Society
- IEEE Oceanic Engineering Society
- IEEE Photonics Society
- IEEE Power Electronics Society
- IEEE Power & 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

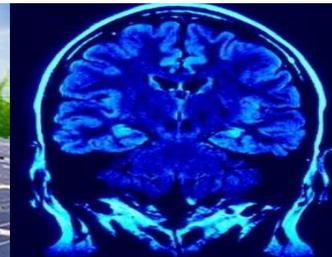
# IEEE 涵蓋各個科技領域

More than just electrical engineering & computer science

- Aerospace & Defense
- Automotive Engineering
- Biomedical Engineering
- Biometrics
- Circuits & Systems
- Cloud Computing
- Communication Systems
- Computer Software
- Electronics
- Energy
- Engineering
- Imaging
- Information Technology
- Medical Devices
- Nanotechnology
- Optics
- Petroleum & Gas
- Power Electronics
- Robotics & Automation
- Semiconductors
- Smart Grids
- Wireless Broadband and many more

出版電機電子工程和電腦領域

佔全世界 **1/3** 的文獻



# IEEE文獻 期刊引用率第一

Refer to: Journal Citation Reports® (JCR®) from Thomson Reuters

## IEEE publishes:

- **The top 20** journals in Electrical and Electronic Engineering
- **18 of the top 20** journals in Telecommunications
- **3 of the top 5** journals in Artificial Intelligence
- **The top 6** journals in Computer Science, Information Systems
- **8 of the top 10** journals in Computer Science, Hardware & Architecture
- **8 of the top 10** journals in Automation & Control Systems
- **3 of the top 5** journals in Computer Science, Cybernetics
- **3 of the top 5** journals in Imaging Science & Photographic Technology

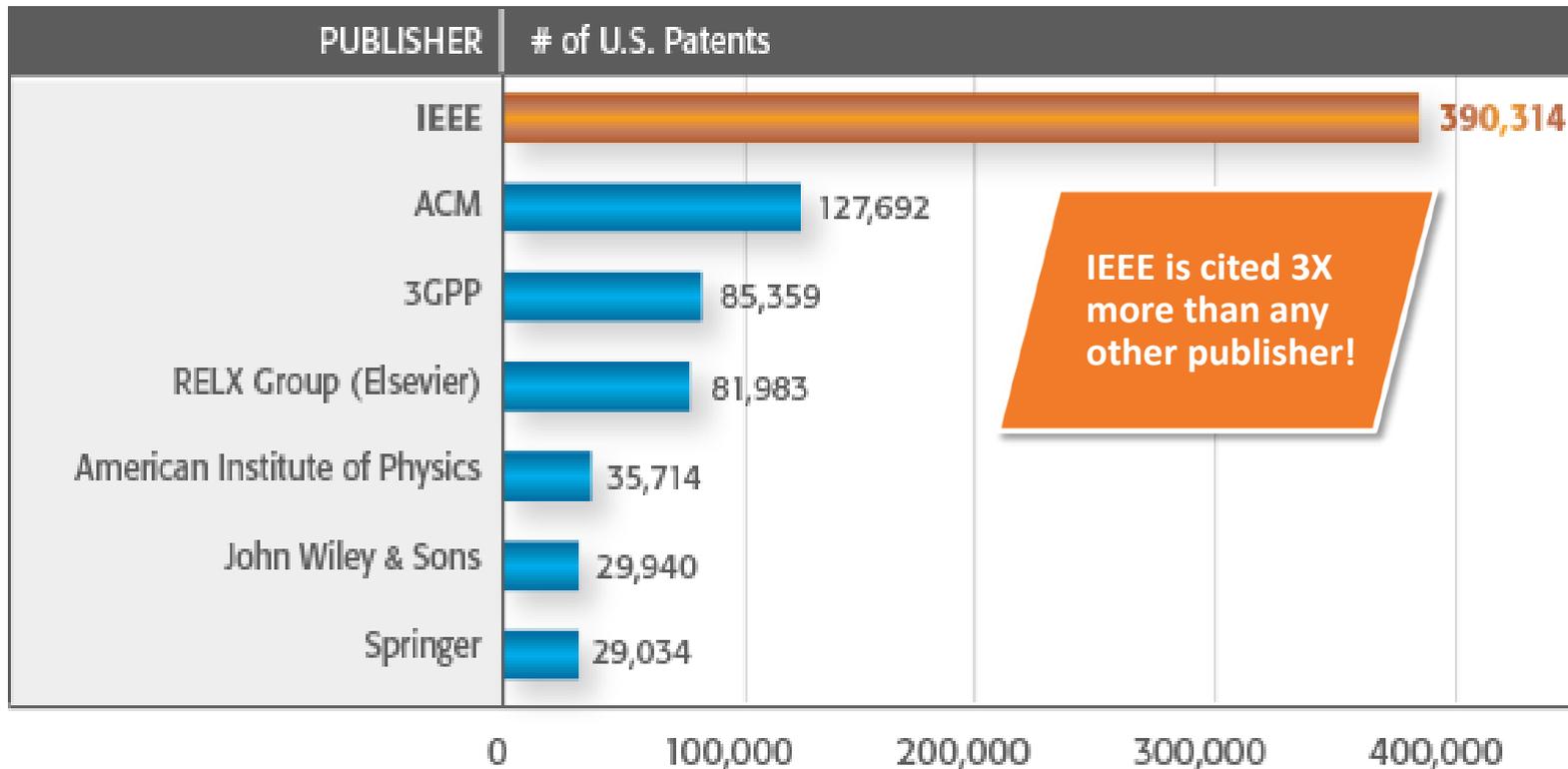
Source: 2018 Journal Citation Reports (Clarivate Analytics, 2019)

Journal Citation Reports present quantifiable statistical data that provide a systematic, objective way to evaluate the world's leading journals.

More info: [www.ieee.org/citations](http://www.ieee.org/citations)

# IEEE文獻 專利引用率第一

Top 20 Publishers Referenced Most Frequently by Top 30 Patenting Organizations



Source: 1790 Analytics LLC, Copyright 2019

More information available at: [www.ieee.org/patentcitations](http://www.ieee.org/patentcitations)

IEEE  
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- 美國電子電機工程師學會(IEEE)
- 英國電機工程師學會(IET)



## IEEE Xplore®收錄各家出版社以及學會文獻

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IEEE standards

**Over 3,600**

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**200**

IEEE journals, magazines  
and transactions

Proceedings from

**over 1,800**

IEEE and IET conference titles

**Over 400**

eLearning courses

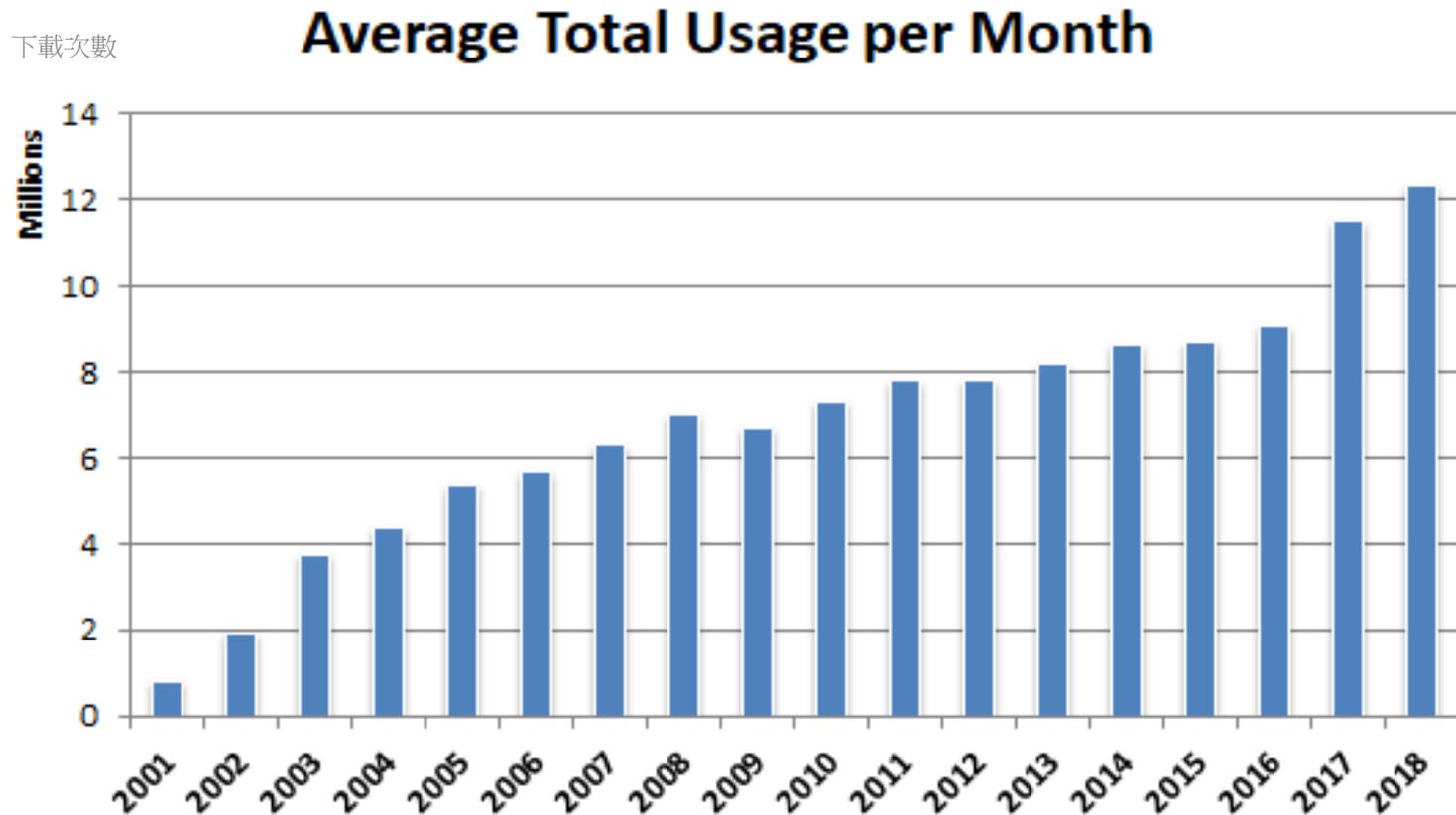
More than **1.7 million**  
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# IEEE Xplore® : 全球使用量不斷攀升

至2018年每月將近1,200萬文獻檔案被下載



Source: IEEE Xplore Internal Usage Stats

# IEEE Xplore 各國下載量排名 台灣第六

#1 USA



#2 China



#3 India



#4 South Korea



#5 United Kingdom



#6 Taiwan



#7 Germany



#8 Japan



#9 Canada



#10 Australia



Data as of January 2019

# IEEE Xplore® 收錄文獻類型

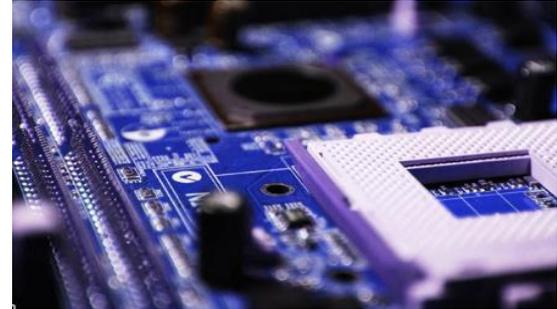


# New IEEE Journals Coming in 2020

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

- IEEE Journal of Emerging and Selected Topics in **Industrial Electronics**
- IEEE Journal on Selected Areas in **Information Theory**
- IEEE Transactions on **Technology and Society**

\*Please note this is a tentative list and is subject to change.



For a complete title listing, to go:

<http://ieeexplore.ieee.org/xpl/opacjrn.jsp>

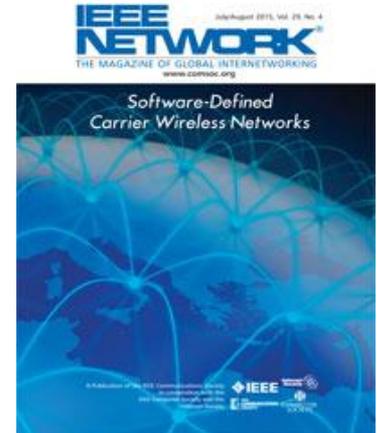
# New IEEE Journals in 2019

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

- IEEE Journal on Miniaturization for Air and Space Systems
- IEEE Networking Letters

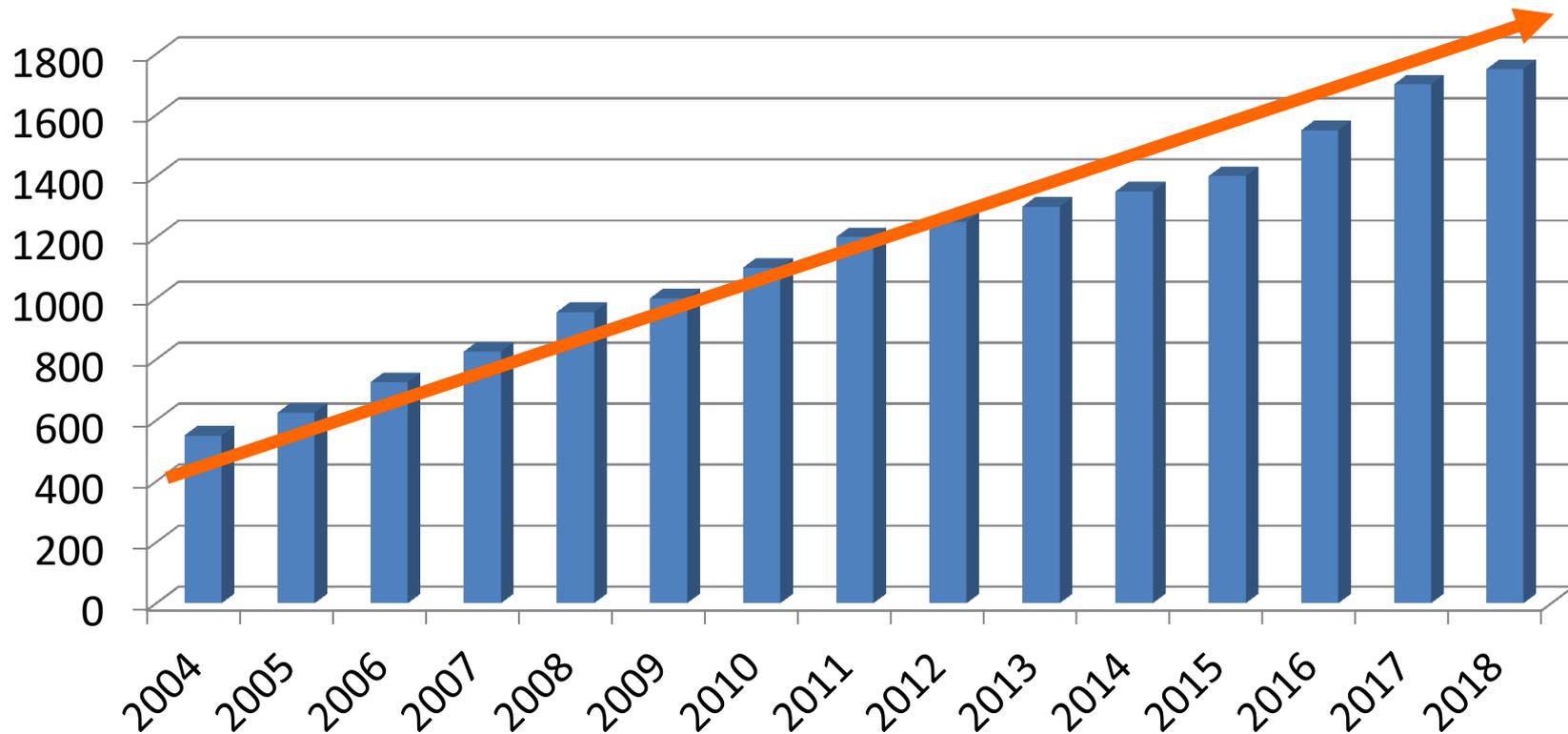
All included in an IEL subscription

For a complete title listing, go to <https://ieeexplore.ieee.org/xpl/opacjrn.jsp>



# IEEE 每年在全球舉辦研討會

Now over 1,700 annual conferences in 2018  
Over 3 million total papers in all in IEEE *Xplore*



# IEEE XPLORE New Conferences 最新研討會主題

## Conference Title

IEEE International Conf. on **Artificial Intelligence Circuits and Systems** (AICAS)

IEEE International Conf. on **Blockchain and Cryptocurrency** (ICBC)

IEEE 6th International Conf. on **Energy Smart Systems** (ESS)

IEEE **Sustainability** through ICT Summit (StICT)

IEEE International Conf. on **Artificial Intelligence** Testing (AITest)

IEEE Asia **Power and Energy** Engineering Conference (APEEC)



IEEE International Conf. on **Decentralized Applications and Infrastructures**

International Conf. on **Control of Dynamical and Aerospace Systems** (XPOTRON)

IEEE International Conf. on **Flexible and Printable Sensors and Systems** (FLEPS) Latin American **Electron Devices** Conference (LAEDC)

IEEE International Conf. on Industry 4.0, **Artificial Intelligence, and Communications Technology** (IAICT)

IEEE Decentralized **Energy Access Solutions** Workshop (DEAS)

IEEE **PES GTD** Grand International Conference and Exposition Asia (GTD Asia)



Note: this is a partial listing of new conferences and is not all-inclusive or final. Information is subject to change.

# IEEE 標準制定



- 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。
- 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...



# IEEE EBOOKS

收錄全球科技領先出版社電子書來拓展視野



**2019 NEW!**



# E-Learning-提供多元學習及了解產業趨勢

Categories

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依照不同的科技領域點選課程內容



Aerospace



Bioengineering



Communication,  
Networking &  
Broadcasting



Components,  
Circuits, Devices &  
Systems



Computing &  
Processing



Engineering  
Profession



English for  
Engineering



Fields, Waves &  
Electromagnetics



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Engineers



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Electro-Optics



Power, Energy, &  
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Applications



Robotics & Control  
Systems



Signal Processing  
& Analysis



Transportation

# E-Learning-提供多元學習及了解產業趨勢

記錄學習進度

點選TOC 看課程目錄

The screenshot displays an e-learning application interface. On the left, a table of contents (TOC) is visible, listing various slide titles and their durations. The 'Introduction' slide is marked as completed with a checkmark. The main content area shows a technical diagram of a cellular network with multiple users and base stations. A text box labeled 'intra-cell interference' is highlighted. The bottom right corner shows a score of 0/16 and a 'TOC' button.

Slide Title	Duration	Progress
Introduction	03:01	✓
Solutions	03:35	
Internal and External I...	04:41	
Empirical Based Model...	04:26	
Gathering Data	04:59	
Wireless Local Area N...	06:44	
Low Cost, Low Energy	04:13	
Cooperative Mechanis...	03:30	
Self Evaluation: Questi...	00:00	

Score: 0 / 16

TOC

# IEEE XPLORE<sup>®</sup>平台功能

瀏覽



檢索



個人化



網址：[www.ieeexplore.ieee.org](http://www.ieeexplore.ieee.org)

# 首頁總覽(I) NEW

個人化功能

顯示學校英文名稱

個人化功能登入

## 瀏覽功能:

- 依文獻類型

## 檢索工具列:

- 全文檢索
- 各類文獻檢索
- 作者檢索
- 進階檢索
- 其他檢索

## 熱搜關鍵字

The screenshot shows the IEEE Xplore Digital Library homepage. The top navigation bar includes links for IEEE.org, IEEE Xplore, IEEE-SA, IEEE Spectrum, and More Sites. On the right, there are links for SUBSCRIBE, Cart (0), Create Account, and Personal Sign In. The main header features the IEEE Xplore Digital Library logo, a 'Browse' dropdown menu, and 'My Settings' and 'Help' links. A search bar is prominently displayed with the text 'SEARCH 5,030,433 ITEMS' and an 'ADVANCED SEARCH' button. Below the search bar, the 'Top Searches and Documents' section is highlighted with a red dashed box, showing a bubble chart of popular search terms and their document counts. The 'Featured Articles' section is visible at the bottom of the screenshot.

Search Term	Document Count
Image Processing	353,989
Antenna	268,706
Artificial Intelligence	194,294
5G	19,387
Data Mining	111,692
Machine Learning	93,655
Cloud Computing	64,711
Internet of Things	38,809
Big Data	45,108
Smart Grid	37,874
Deep Learning	29,930
Blockchain	3,390

# 首頁總覽(II) NEW

## Featured Articles

### 熱門期刊內容



**Children May Trust Robots More Than Human Physical Therapists**

1 Sep 2019



**Unlocking IoT Data with 5G and AI**

26 June 2019

[READ MORE](#)



**Wanted: A Bomb Detector as Sensitive as a Dog's Nose**

2 Oct 2019

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### IEEE 最新消息



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**IEEE Authors: Manage and Store Your Research Data..**

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## IEEE 即將舉辦之研討會

### Upcoming Conferences

<b>11</b> DE C	2019 IEEE 58th Conference on Decision and Control (CDC)	<a href="#">REGISTER</a>	<a href="#">11-13 DECEMBER 2019   NICE, FRANCE</a>	<a href="#">🔗</a>
<b>18</b> JA N	IEEE International Conference on Micro Electro Mechanical Systems	<a href="#">REGISTER</a>	<a href="#">18-22 JANUARY 2020   VANCOUVER, BRITISH COLUMBIA, CANADA</a>	<a href="#">🔗</a>
<b>8</b> M AR	2020 Optical Fiber Communications Conference and Exhibition (OFC)	<a href="#">REGISTER</a>	<a href="#">8-12 MARCH 2020   SAN DIEGO, USA</a>	<a href="#">🔗</a>

# Feedback 用戶回饋 **NEW**

IEEE Xplore每個頁面右側  
Feedback功能給予回饋

The image displays the IEEE Xplore Digital Library interface. At the top, the navigation bar includes 'IEEE Xplore Digital Library', 'Browse', 'My Settings', and 'Help'. The main content area features a search bar with 'All' selected, and a section titled 'Top Searches and' with a 'Blockchain' category showing 3,393 results. A feedback modal is overlaid on the page, titled 'IEEE Xplore Digital Library' and asking 'What do you think of this?'. It provides five smiley face icons for rating and three options: 'Specific feedback' (for a specific part of the page), 'Generic feedback' (for the entire website), and 'Need Help? Contact & Support'. The modal is powered by Usabilla. On the right side of the page, a vertical orange 'Feedback' button is visible, with a red dotted line pointing to it from the text above.

# IEEE *Xplore*<sup>®</sup> 平台功能



# 瀏覽功能Browse

IEEE Xplore®  
Digital Library



## 依照文獻類別瀏覽

- a) 書籍
- b) 會議論文
- c) 線上課程
- d) 期刊雜誌
- e) 技術標準

# 1. 期刊雜誌瀏覽

All

Advanced Search | Other Search Options

Browse Journals & Magazines

**可輸入關鍵字查詢刊名**

By Title | By Topic | Virtual Journals

**依開頭字母順序查詢**

Browse Titles

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | 0-9 | All

Displaying Results 1-25 of 337  |

**期刊清單**

**預先設定顯示筆數**

Refine results by

Show active titles only

Year

Single Year | Range

1872, 2019

**IEEE Access**  
Publisher: IEEE Years: 2013 - Present Most Recent Issue

**IEEE Aerospace and Electronic Systems Magazine**  
Publisher: IEEE Years: 1986 - Present Most Recent Issue

**IEEE Transactions on Aerospace and Electronic Systems**  
Publisher: IEEE Years: 1965 - Present Most Recent Issue

# 期刊雜誌搜尋畫面

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

Advanced Search | Other Search Options

依主題領域查詢，共有16種科技領域主題

Browse Journals & Magazines

By Title

By Topic

Virtual Journals

Search by keywords

Sign Up for Alerts | Title List

Browse Titles

A | B | C | D | E | F | G | H | I | J | K | L | M | N

下關鍵字搜尋期刊名稱

- 9 | All

Displaying Results 1-25 of 337

Sort By: Publication Title A - Z | Per Page: 25

Refine results by

Show active titles only

Year

Single Year

Range

1872,

2019

IEEE Access

Publisher: IEEE Years: 2013 - Present Most Recent Issue

IEEE Aerospace and Electronic Systems Magazine

Publisher: IEEE Years: 1986 - Present Most Recent Issue

IEEE Transactions on Aerospace and Electronic Systems

Publisher: IEEE Years: 1965 - Present Most Recent Issue

# 期刊雜誌搜尋結果

Browse Journals & Magazines [?](#)

輸入關鍵字查詢

By Title

By Topic

Virtual Jour

Network



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設定排序條件

預先設定顯示筆數

Browse Titles [?](#)

A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W | X | Y | Z | 0-9 | All

Displaying Results 1-14 of 14 for Network [x](#)

Sort By: Publication Title A - Z [v](#) | Per Page: 25 [v](#)

Year

Single Year Range

1987 2019

From To

1987 2019

Publisher

IEEE (12)

IET (1)

OUP (1)

Topic

Communication, Networking & Broadcasting (12)

Computing & Processing (7)

Components, Circuits, Devices &

EE Transactions on Cognitive Communications and Networking

Publisher: IEEE Years: 2015 - Present Most Recent Issue

Journal of Communications and Networks

Publisher: IEEE Years: 1999 - Present Most Recent Issue

Journal of Complex Networks

Publisher: OUP Years: 2013 - Present Most Recent Issue

EE Transactions on Control of Network Systems

Publisher: IEEE Years: 2014 - Present Most Recent Issue

Transactions on Green Communications and Networking

Publisher: IEEE Years: 2017 - Present Most Recent Issue

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# 期刊首頁介紹

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IEEE ComSoc

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主旨

Impact Factor 期刊影響係數:  
分析期刊被引用狀況, 以呈現其影響力的指標

點選連結至IEEE Author Center 可獲得更多投稿出版資訊

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0.0091  
Eigenfactor

2.096  
Article  
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Score

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主旨

## Aims & Scope

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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

出版頻率

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Displaying Results 1-50 of 50

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Date

April 2019 

Select All on Page

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

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

文章標題

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

## 專利文獻資訊



# 期刊雜誌瀏覽-Citation Map

## Abstract

### Document Sections

1. Quality Comparisons and Classification of Metrics
2. Qualitative Relationship between QoE and QoS
3. The Exponential Relationship between QoE and QoS
4. Mapping of Weighted Session Time to Perceived Web Browsing Quality
5. Cancellation Rate of Web Browsing Users

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### Citations

### Keywords

### Metrics

mechanisms that build on QoS monitoring.

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### 2. A. Bou

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### 3. "ITU-T

2005.

## Citation Map

This view provides a high-level visual representation of references and citing documents for this article. To view the full listing, select "View All References" or "View All Citations".

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[View All Citations](#)

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後續引用本文的文獻

### References in this Article

- 6 Mapping Function for Transforming P.862 Raw Result Scores to MOS-LQO
- 7 Relationship between Quality-of-service and Quality-of-Experience for Public Internet Service
- 8 Internet Low Bit Rate Codec (iLBC)
- 9 Testing the IQX Hypothesis for Exponential Interdependency between QoS and QoE for Voice Codecs iLBC and ...
- 10 Packet Reordering Metrics

### This Article

### Citations to this Article

- 1 A Cloud-Based Architecture for the Internet of Spectrum Devices Over Future Wireless Networks
- 2 Maximizing Quality of Experience in Device-to-Device Communication Using an Evolutionary Algorithm Based on Users' Behav...
- 3 Audio-Visual Multimedia Quality Assessment: A Comprehensive Survey
- 4 Mathematical Bottom-to-Up Approach in Video Quality Estimation Based on PHY and MAC Parameters
- 5 Novel AHP-based QoE factors' selection approach

# 期刊常用功能

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

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

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

33 Paper Citations  
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### Abstract

#### Abstract:

Deep learning is a promising approach for extracting 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

### Document Sections

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

### More Like This

Internet of Things and Edge Computing Roadmap for Manufacturing and 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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# 3. 標準瀏覽

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### 1 - IEEE Standard General Principles for Temperature Limits in the Rating of Electric Equipment and for the Evaluation of Electrical Insulation

Publisher: IEEE

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1-2000 - IEEE Recommended Practice - General Principles for Temperature Limits in the Rating of Electrical Equipment and for the Evaluation of Electrical Insulation

» Revision of ANSI/IEEE Std 1-1986

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1-1986 - IEEE Standard General Principles for Temperature Limits in the Rating of Electric Equipment and for the Evaluation of Electrical Insulation

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1-1969 - IEEE General Principles for Temperature Limits in the Rating of Electric Equipment

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1-1962 - AIEE General Principles Upon Which Temperature Limits Are Based in the rating of Electric Equipment

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# 標準瀏覽-紅線標準 Redline Standards

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## C2-2017 - 2017 National Electrical Safety Code (F)

Revision of National Electrical Safety Code, C2-2012  
Status: ~~Active~~ **Redline**

**Abstract** | Figures | References | Citations | Keywords

**Abstract:**  
This Code covers basic provisions for safeguarding of persons from hazards arising from electric conductors and equipment in electric supply stations, and (2) overhead and underground lines. It includes work rules for the construction, maintenance, and operation of electric systems. This Code is applicable to the systems and equipment operated by utilities, or similar systems, and to the complex under the control of qualified persons. This Code consists of the introduction and the following parts:

### 1.3 Application

The environmental performance criteria are contained in the standards that are members of this IEEE 1680 family of standards. The principles and procedures identified in Clause 1 apply to notebook computers, desktop personal computers, and personal computer monitors. The principles and procedures identified in Clause 1, Clause 2, and Clause 3 apply to personal computer electronic products and will apply to future standards developed for additional electronic products.

Different configurations of a product, as defined in the standards in this family, may include options for processors, memory, hard disks, etc. A product, for the purpose of this family of standards, is every configuration that could be offered in a specific marketing model and chassis type. If there is a specific configuration within a marketing model and chassis type that would change configurations do not meet the environmental performance substantially, especially if that configuration would no longer meet a criterion criteria as declared, then the manufacturer could not claim conformance to this Standard for that configuration, even if the same model in other configurations did conform to this Standard. The manufacturer shall clearly report such special to the Product Registration Entity which configurations that do not conform to meet the Standard to the Product Registration Entity criteria as declared.

A product includes a desktop computer, a notebook computer or monitor, an electronic product and all the peripherals that are integral to its operation. For example, the desktop computer together with the keyboard, the mouse, and the power cord would be a product.

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**The Case for VM-Based Cloudlets in Mobile Computing**

Mahadev Satyanarayanan ; Paramvir Bahl ; Ramon Caceres ; Nigel Davies

IEEE Pervasive Computing

Year: 2009 , Volume: 8 , Issue: 4

Page s: 14 - 23

Cited by: Papers (1385) | Patents (16)

IEEE Journals & Magazines

▶ Abstract ((html)) (1704 Kb)

**((html))**

# 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  
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6  
Patent  
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12157  
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#### 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

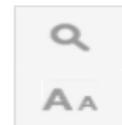
**Date of Publication:** 08 April 2010

**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



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- 3.可輸入布林邏輯指令  
AND、OR、NOT

選擇文獻類型/作者  
/citations下關鍵字

未使用引號:cloud computing

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

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)

The screenshot shows a search interface with a top navigation bar containing 'Browse', 'My Settings', and 'Get Help'. Below this is a search bar with a search icon. To the left of the search bar is a 'Year' filter section with a 'Range' tab selected, showing a slider from 1930 to 2019 and input fields for 'From' and 'To'. Below the search bar are 'Advanced Search' and 'Other Search Options' links, along with 'Set Search Alerts' and 'Search History' options. A list of filters is on the left, including 'Year', 'Author', 'Affiliation', 'Publication Title', 'Publisher', 'Supplemental Items', 'Conference Location', 'Standard Status', 'Standard Type', and 'Index Terms'. A list of document types is on the right, including 'Early Access Articles (892)' and 'Standards (10)'. A 'Sort By: Relevance' dropdown menu is open, showing options like 'Relevance', 'Newest First', 'Oldest First', 'Most Cited [By Papers]', 'Most Cited [By Patents]', 'Publication Title A-Z', and 'Publication Title Z-A'. A search result snippet is visible, mentioning 'Cloud Computing' and 'White Paper'.

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作者

所屬單位

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# 多重檢索範圍總結

更加精確的搜索及利用更多選項來擴大結果

作者

所屬單位

出版品標題

出版商

Author	Affiliation	Publication Title	Publisher
<input type="text" value="Enter Author Name"/> <input type="checkbox"/> Rajkumar Buyya (152) <input type="checkbox"/> Hai Jin (143) <input type="checkbox"/> Albert Y. Zomaya (127) <input type="checkbox"/> Schahram Dustdar (118) <input type="checkbox"/> Hui Li (99) <a href="#">View more...</a>	<input type="text" value="Enter Affiliation"/> <input type="checkbox"/> University of Western Sydney (60) <input type="checkbox"/> School of Computer Engineering, Nanyang Technological University, Singapore (56) <input type="checkbox"/> Alcatel-Lucent Reliability (47) <input type="checkbox"/> School of Computer Science and Technology, Huazhong University of Science and Technology, Wuhan, China (40) <input type="checkbox"/> Beijing University of Posts and Telecommunications, Beijing 100876, China (39) <a href="#">View more...</a>	<input type="text" value="Enter Title"/> <input type="checkbox"/> IEEE Access (769) <input type="checkbox"/> IEEE Cloud Computing (584) <input type="checkbox"/> IEEE Transactions on Cloud Computing (566) <input type="checkbox"/> IEEE Transactions on Parallel and Distributed Systems (377) <input type="checkbox"/> 2018 IEEE SmartWorld, Ubiquitous Intelligence & Computing, Advanced & Trusted Computing, Scalable Computing & Communications, Cloud & Big Data Computing, Internet of People and Smart City Innovation (SmartWorld/SCALCOM/UIC/ATC /CBDCOM/IOP/SCI) (358) <a href="#">View more...</a>	<input type="checkbox"/> IEEE (55,810) <input type="checkbox"/> IET (304) <input type="checkbox"/> OUP (200) <input type="checkbox"/> Wiley (72) <input type="checkbox"/> TUP (69) <a href="#">View more...</a>

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- Code (2)
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## 研討會舉辦地點

### Conference Location

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- Beijing (1,327)
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## 標準狀態

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### Standard Type

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## 關鍵字

### Index Terms

Enter Terms

- cloud computing (34,565)
- resource allocation (5,691)
- mobile computing (4,813)
- virtual machines (4,520)
- security of data (3,852)

# 作者檢索與分析

Author



Enter Author Name

- Rajkumar Buyya (152)
- Hai Jin (143)
- Albert Y. Zomaya (127)
- Schahram Dustdar (118)
- Hui Li (99)
- Wei Wang (95)
- Bo Li (94)
- Laurence T. Yang (91)
- Jie Wu (90)
- Rajiv Ranjan (83)
- Meikang Qiu (82)
- Cong Wang (81)
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前25位作者

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## Publisher



- IEEE (55,810)
- IET (304)
- OUP (200)
- Wiley (72)
- TUP (69)
- IBM (65)
- MITP (48)
- SMPTE (43)
- VDE (19)
- Morgan & Claypool (16)
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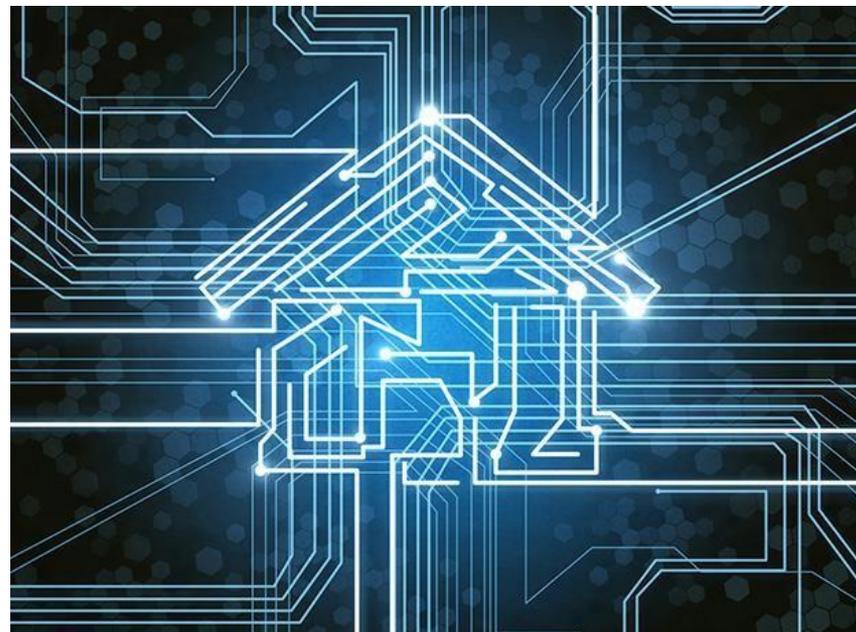
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# Alert I. 快報通知 (Content Alert)

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# 檢索條件通知 (Save Search Alerts)

The screenshot shows a search engine interface with the following elements:

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- Search Bar:** 'All' dropdown, search input field with placeholder 'Enter keywords or phrases (Note: Searches metadata only by default. A search for 'smart grid' = 'smart AND grid')', and search icon.
- Advanced Search:** 'Advanced Search' and 'Other Search Options' links.
- Search Results:** 'Showing 1-25 of 59,378 for ROBOT x automation x'. Filter categories include Conferences (50,988), Journals (6,906), Magazines (1,243), Books (13), Courses (13), and Standards (6).
- Alerts:** 'Set Search Alerts' dropdown menu is open, showing 'Set Alert' dialog with 'Search Alert Name\*' (2020 PLAN A) and 'Email Address' (virginia.chen@hintoninfo.com). A 'Save' button is highlighted.
- Annotations:** Three callout boxes with arrows pointing to the search criteria, the alert name field, and the save button.

**檢索條件** (Search Criteria)

**設定檢索條件名稱** (Set Search Alert Name)

**點選檢索條件通知** (Click to set search alert notification)

Alerts

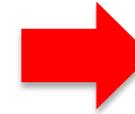
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# Alerts II. 檢索條件通知 (Save Search Alerts)

23 new results for 'iot mobile' Inbox x

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Saved Search Name:  
iot mobile

Search Query:  
iotmobile::Content Type[Journals & Magazines,Early Access Articles]:

23 NEW RESULTS

View Results ( [https://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=mobile&contentType=periodicals&refinements=ContentType%3AJournals+.AND.+Magazines&refinements=ContentType%3AEarly+Access+Articles&sortType=&searchField=Search\\_All&queryText=iot&ranges=20180808\\_20180822\\_Search%20Latest%20Date&dld=aGludG9uaW5mby5jb20=&source=SEARCHALERT](https://ieeexplore.ieee.org/search/searchresult.jsp?searchWithin=mobile&contentType=periodicals&refinements=ContentType%3AJournals+.AND.+Magazines&refinements=ContentType%3AEarly+Access+Articles&sortType=&searchField=Search_All&queryText=iot&ranges=20180808_20180822_Search%20Latest%20Date&dld=aGludG9uaW5mby5jb20=&source=SEARCHALERT) )

A Dynamic Edge Caching Framework for Mobile 5G Networks

<https://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=8443597&contentType=Early+Access+Articles&dld=aGludG9uaW5mby5jb20=&source=SEARCHALERT>

Posted Online: 08/22/2018

Author(s): Dinh Thai Hoang; Dusit Niyato; Diep N. Nguyen; Eryk Dutkiewicz; Ping Wang; Zhu Han

Published In: IEEE Wireless Communications

Multi-Access Mobile Edge Computing for Heterogeneous IoT

<https://ieeexplore.ieee.org/xpl/articleDetails.jsp?tp=&arnumber=8436038&contentType=Journals+%26+Magazines&dld=aGludG9uaW5mby5jb20=&source=SEARCHALERT>

Posted Online: 08/14/2018

Author(s): Yan Zhang; Yuan Wu; Hassnaa Moustafa; Danny H. K. Tsang; Alberto Leon-Garcia; Usman Javaid

Published In: IEEE Communications Magazine

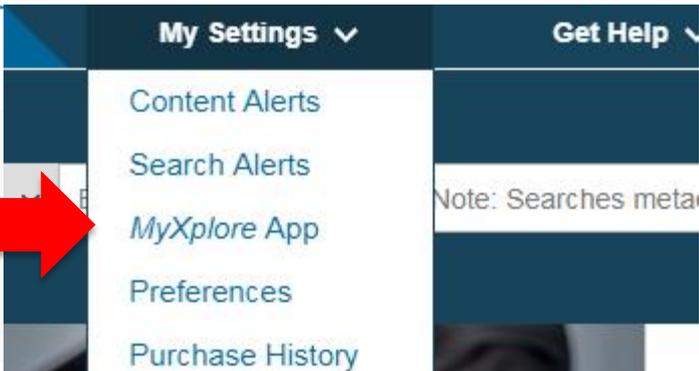
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" Content Type[Journals & Magazines] "

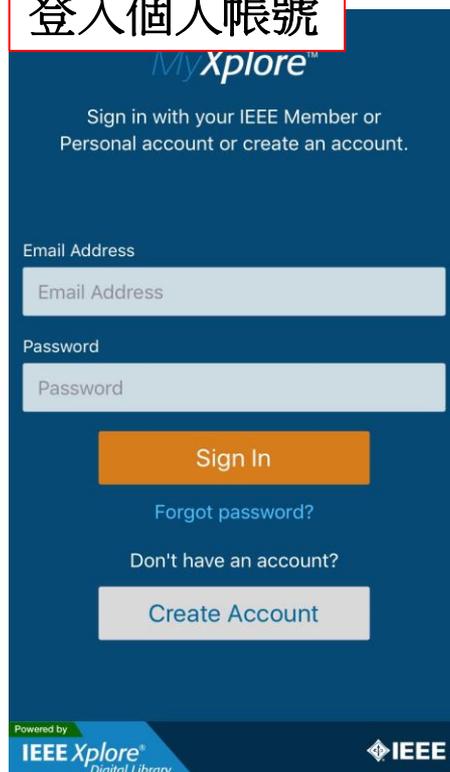
4 car with iot

You Searched For

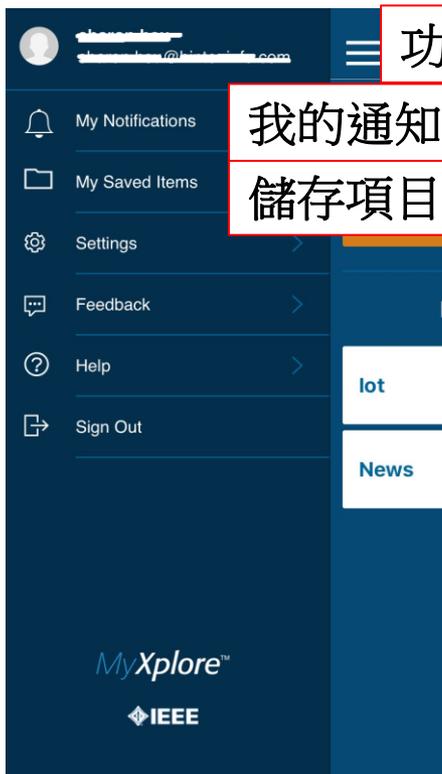
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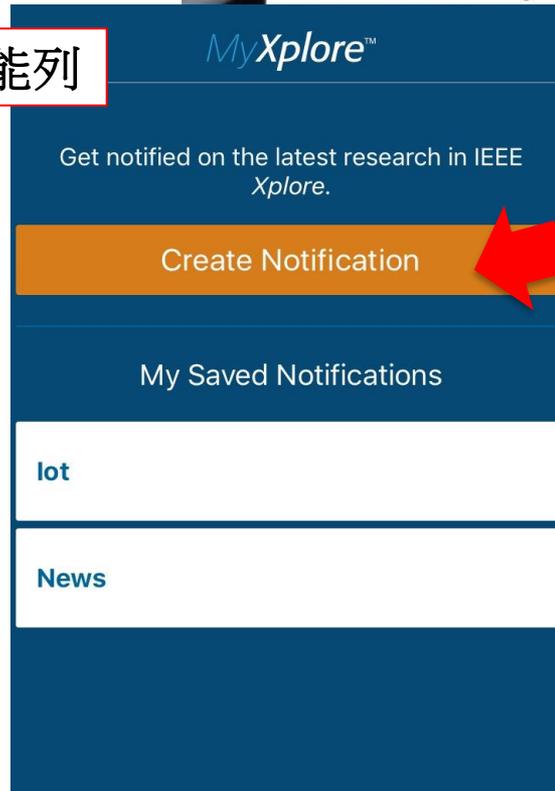
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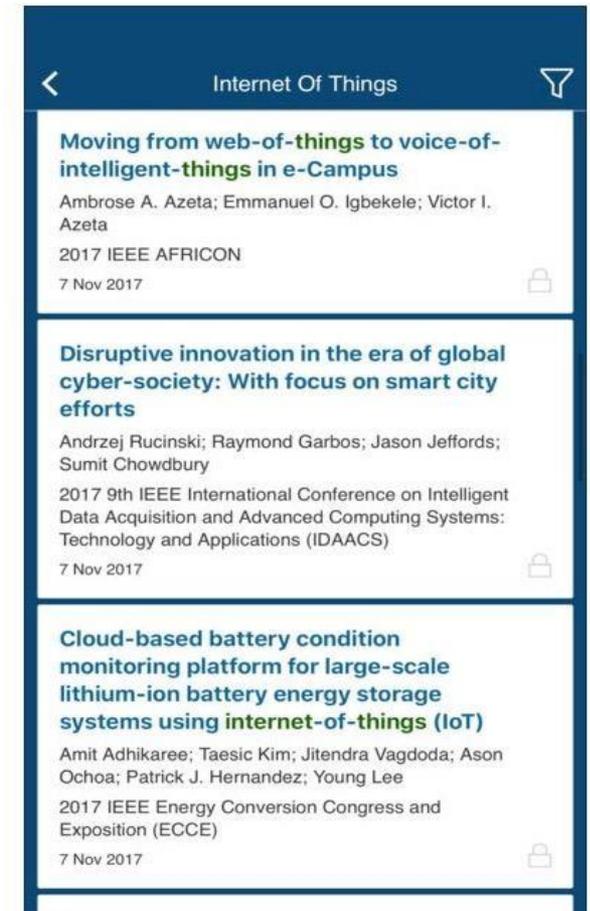
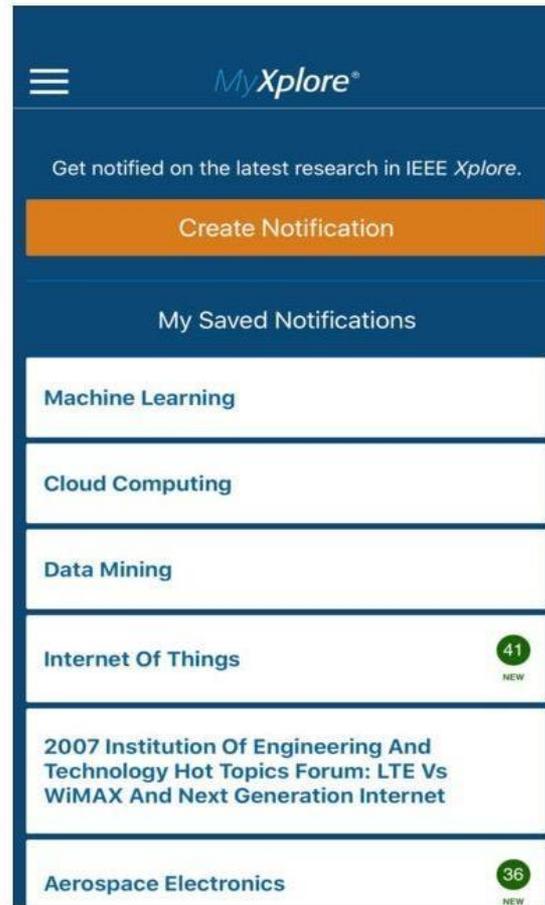
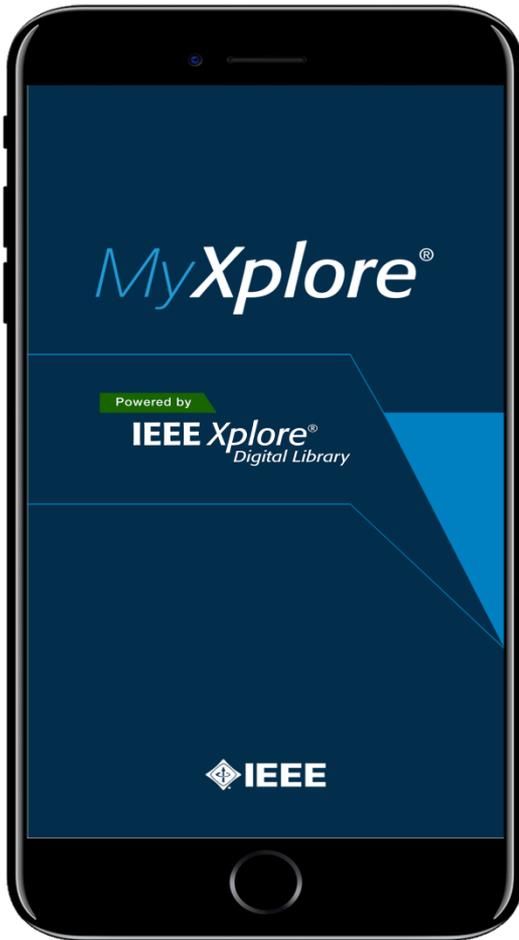
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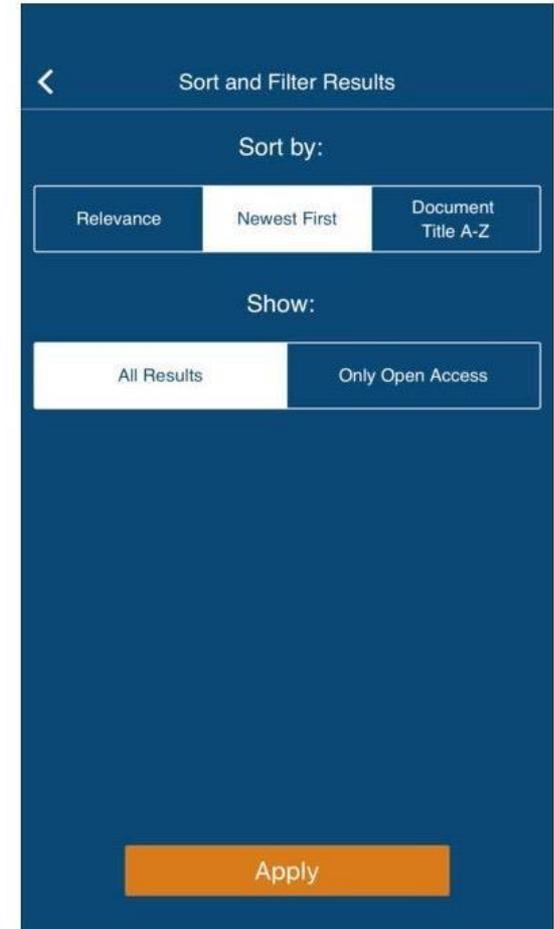
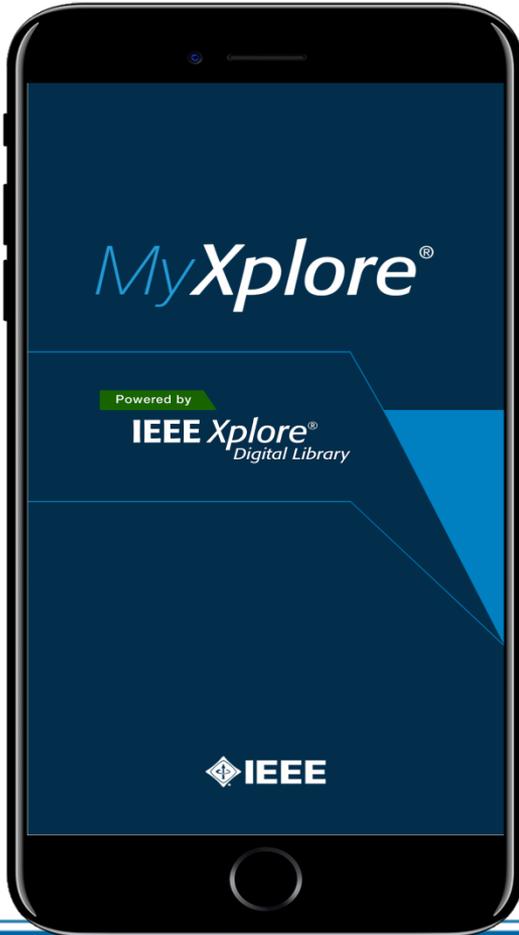
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# My Xplore App

The image displays a comparison between the IEEE Xplore website and its mobile app. On the left, the website interface shows the 'My Saved Items' section with a search bar and a list of saved items. A red box highlights a specific item: 'Secret Group-Key Generation at Physical Layer for Multi-Antenna Mesh Topology'. On the right, the mobile app interface shows the 'My Saved Items' screen with the same item highlighted by a red box. A red arrow points from the website's highlighted item to the app's highlighted item. Another red arrow points from the website's search bar area to the app's search bar area. A central text box with Chinese characters '瀏覽器與app 同步儲存' (Browser and app synchronization storage) is positioned between the two interfaces, with red arrows pointing towards both.

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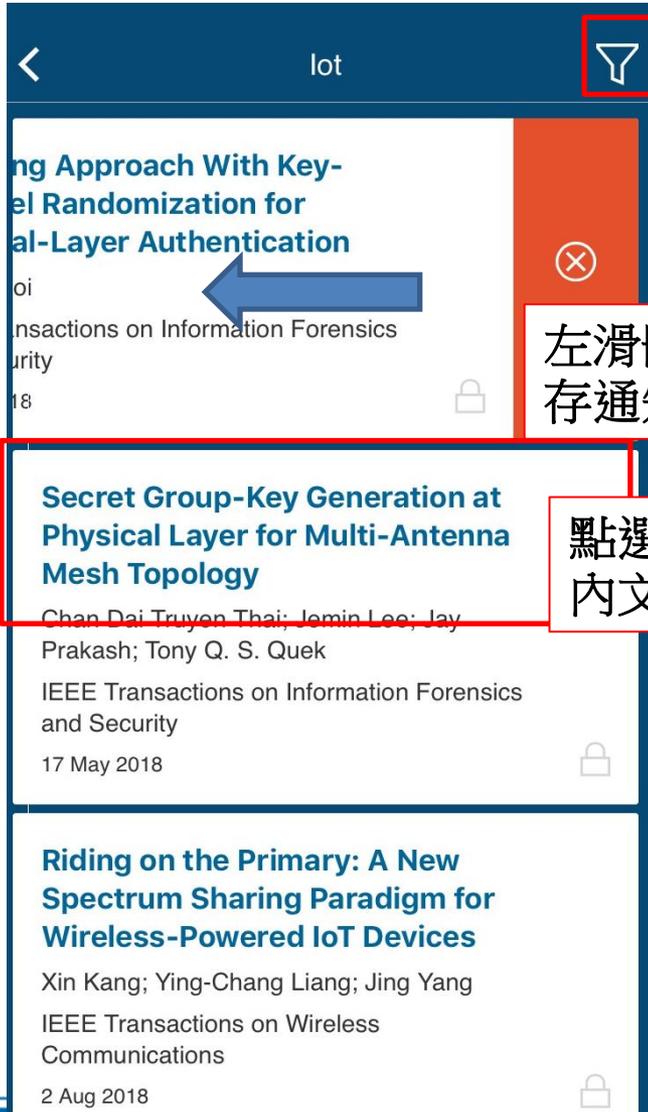
Access and manage your saved items from the *MyXplore* app.

**Secret Group-Key Generation at Physical Layer for Multi-Antenna Mesh Topology**  
Chan Dai Truyen Thai; Jemin Lee; Jay Prakash; Tony Q. S. Quek  
IEEE Transactions on Information Forensics and Security  
17 May 2018

**Secret Group-Key Generation at Physical Layer for Multi-Antenna Mesh Topology**  
Chan Dai Truyen Thai; Jemin Lee; Jay Prakash; Tony Q. S. Quek  
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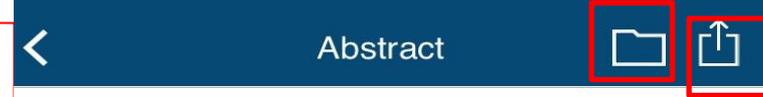
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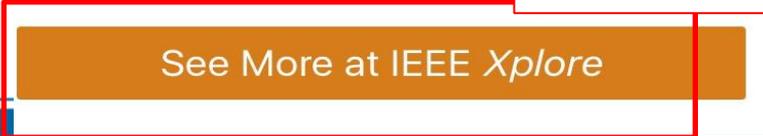
### A Coding Approach With Key-Channel Randomization for Physical-Layer Authentication

**AUTHOR(S)**  
Jinho Choi

**JOURNAL/CONFERENCE**  
IEEE Transactions on Information Forensics and Security  
15 Jun 2018

**ABSTRACT**  
We propose a physical-layer challenge-response authentication approach in this paper based on combined shared secret key and channel state information between two legitimate nodes in an orthogonal frequency division multiplexing system. The proposed approach can be used even if the correlation of channel coefficients exists, which can be exploited to extract the shared secret key in conventional a...

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# 檢索偏好(Preference)

## Preferences ?

### Search Options

Search

All Metadata	Full Text & Metadata	Full Text Only ?
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Search History Recording

On	Off
----	-----

### Results Layout

Title Only	Title & Citation	Title, Citation & Abstract
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Results Per Page

25
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Sort By

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- ALL
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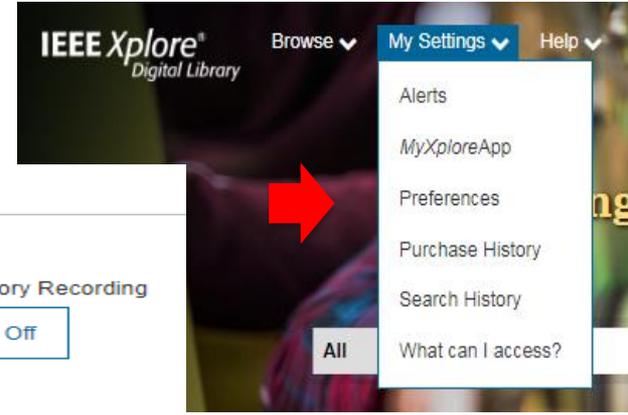
Plain Text	BibTex	RIS	RefWorks
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### Email Alert Options

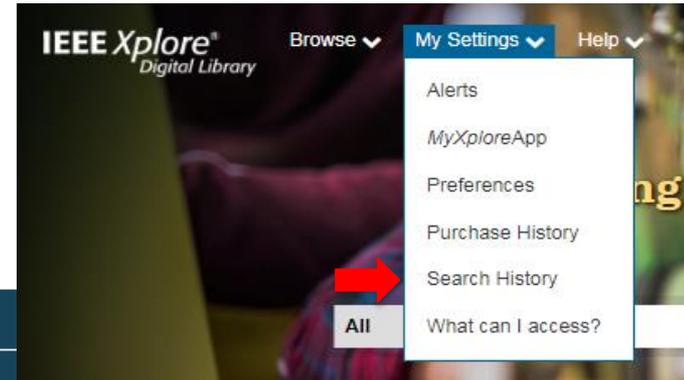
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Update



# 檢索紀錄 (Search History)



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

Advanced Search

## 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)

### 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

Select multiple searches to combine them together.

#	Search Query	Details
<input type="checkbox"/> 6	Artificial Intelligence You Refined By: Content Type: Conferences Journals    Year: 2015-2020	84082 Dec. 6, 2019 16:12 UTC
<input type="checkbox"/> 2	ROBOT, automation	59378 Dec. 6, 2019 16:04 UTC

3-D Metal Printing



### 3D Metal Printing

**Breakthrough:** Printers can now make metal objects quickly and cheaply.

**Why It Matters:** The ability to make large and complex metal objects on demand could transform manufacturing.

**Availability:** Now

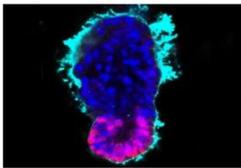
### Artificial Embryos

**Breakthrough:** Without eggs or sperm cells, researchers have made embryo-like structures from stem cells alone, providing a whole new route to creating life.

**Why It Matters:** Will make it easier for researchers to study the mysterious beginnings of human life.

**Availability:** Now

Artificial Embryos



### Sensing City

**Breakthrough:** A Toronto neighborhood to be the first place to successfully integrate cutting-edge urban design with state-of-the-art digital technology.

**Why It Matters:** Smart cities could make urban areas more affordable, liveable, and environmentally friendly..

**Availability:** Now

Sensing City



### AI for Everybody

**Breakthrough:** Cloud-based AI is making the technology cheaper and easier to use.

**Why It Matters:** Right now the use of AI is dominated by a relatively few companies, but as a cloud-based service, it could be widely available to many more, giving the economy a boost.

**Availability:** Now

AI for Everybody



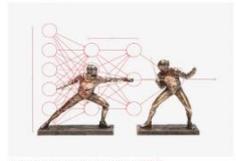
### Dueling Neural Networks

**Breakthrough:** Two AI systems can spar with each other to create ultra-realistic original images or sounds, something machines have never been able to do before.

**Why It Matters:** Gives machines something akin to a sense of imagination, which may help them become less reliant.

**Availability:** Now

Dueling Neural Networks



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- 7,000+ articles on "metal fabrication"
- 5,000+ articles on "3-D printing"

### IEEE Xplore:

- 600+ articles on "stem cell" research
- 500+ articles on "embryo research", "embryology, "embryonic development"

### IEEE Xplore:

- 9,000+ articles on "smart cities"
- 35,000+ articles on "sensor networks"

### IEEE Xplore:

- 140,000+ articles on "artificial intelligence"
- 49,000+ articles on "machine learning"
- 41,000+ articles on "cloud computing"

### IEEE Xplore:

- 6,000+ articles on "deep learning"
- 80,000+ articles on "neural networks"

## Babel-Fish Earbuds

**Breakthrough:** Near-time translation now works for a large number of languages and is easy to use.

**Why It Matters:** In an increasingly global world, language is still a barrier to communication.

**Availability:** Now

Babel-Fish Earbuds



## Zero-Carbon Natural Gas

**Breakthrough:** A power plant efficiently and cheaply captures carbon released by burning natural gas, avoiding greenhouse-gas emissions.

**Why It Matters:** Around 32 percent of US electricity is produced with natural gas, accounting for around 30 percent of the power sector's carbon emissions.

**Availability:** 3 to 5 Years

Zero-Carbon Natural Gas



## Perfect Online Privacy

**Breakthrough:** Computer scientists are perfecting a cryptographic tool for proving something without revealing the information underlying the proof.

**Why It Matters:** If you need to disclose personal information to get something done online, it will be easier to do so without risking your privacy or exposing yourself to identity theft.

Perfect Online Privacy



## Genetic Fortune-Telling

**Breakthrough:** Scientists can now use your genome to predict your chances of getting heart disease or breast cancer, and even your IQ.

**Why It Matters:** DNA-based predictions could be the next great public health advance, but they will increase the risks of genetic discrimination.

**Availability:** Now

Genetic Fortune-Telling



## Materials' Quantum Leap

**Breakthrough:** IBM has simulated the electronic structure of a small molecule, using a seven-qubit quantum computer.

**Why It Matters:** Understanding molecules in exact detail will allow chemists to design more effective drugs and better materials for generating and distributing energy.

**Availability:** 5-10 Years

Materials' Quantum Leap



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- 1,700+ articles on "clean energy"
- 3,200+ articles on "natural gas"

## IEEE Xplore:

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- 15,000+ articles on "data privacy"

## IEEE Xplore:

- 3,900+ articles on "genome" research
- 70,000+ articles on "genetics"

## IEEE Xplore:

- 6,600+ articles on "quantum computing"
- 2,000+ articles on "molecular dynamics"

# QUIZS : Search IEL - IEEE Xplore

導航系統： Navigation System	智慧控制 Intelligent Control	光纖網路： Optical Networks
社群網路分析： Social Network Analysis	流體力學： Fluid mechanics	綠色能源開發： Green-Energy Exploration
資料探勘： Data mining	半導體裝置： Semiconductor Devices	生物識別系統： Biometric Systems
智慧型遠端監控： Smart Remote Monitoring	無人飛機：UAV 衛星定位系統：GPS	雷達感測技術： Radar Sensing Technology
醫療科技輔具： Medical Assistive Tech	視訊處理： Video processing	衛星通訊 Satellite Communication

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資料探勘： Data mining	半導體裝置： Semiconductor Devices	生物識別系統： Biometric Systems
智慧型遠端監控： Smart Remote Monitoring	無人飛機：UAV 衛星定位系統：GPS	雷達感測技術： Radar Sensing Technology
醫療科技輔具： Medical Assistive Tech	視訊處理： Video processing	衛星通訊 Satellite Communication

# QUIZS : Search IEL - IEEE Xplore

人工智慧： Artificial intelligence	燃料電池：Fuel cell	光纖通訊 Fiber Optic Communication
嵌入式系統： Embedded System	智慧電網：Smart grid	有機發光二極體： OLED：Light-emitting diode
有機光電元件： OLED, Solar Cell	馬達驅動： Motor drive	軌道電力系統： Railway Power System
天線工程 Antenna Engineering	無線射頻辨識：RFID	光纖雷射 / 光纖感測： Fiber laser / Fiber Sensing
紅外線技術： Infrared Technology	紅外線技術： Infrared Technology	超大型積體電路：( VLSI ) Very-Large-Scale integration

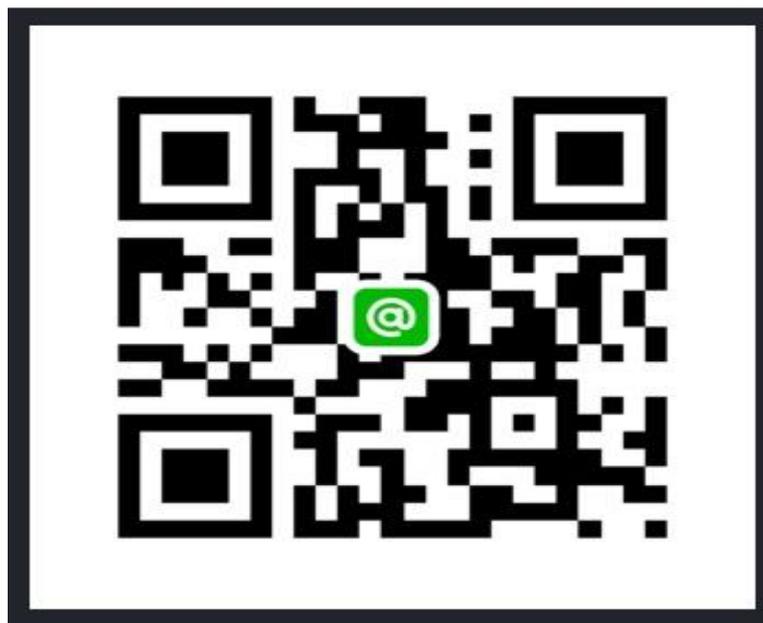
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