

IEEE Xplore® 全文電子資料庫

學術講師 *Virginia* 陳佳慧
涵堂資訊有限公司

HINTON
INFORMATION SERVICES

IEEE Xplore[®] 全文電子資料庫

➤ 認識 IEEE Xplore[®]

- 1) 學會組織介紹
- 2) 收錄文獻類型

➤ IEEE Xplore[®] 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



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

39個專業分會

IEEE Societies

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

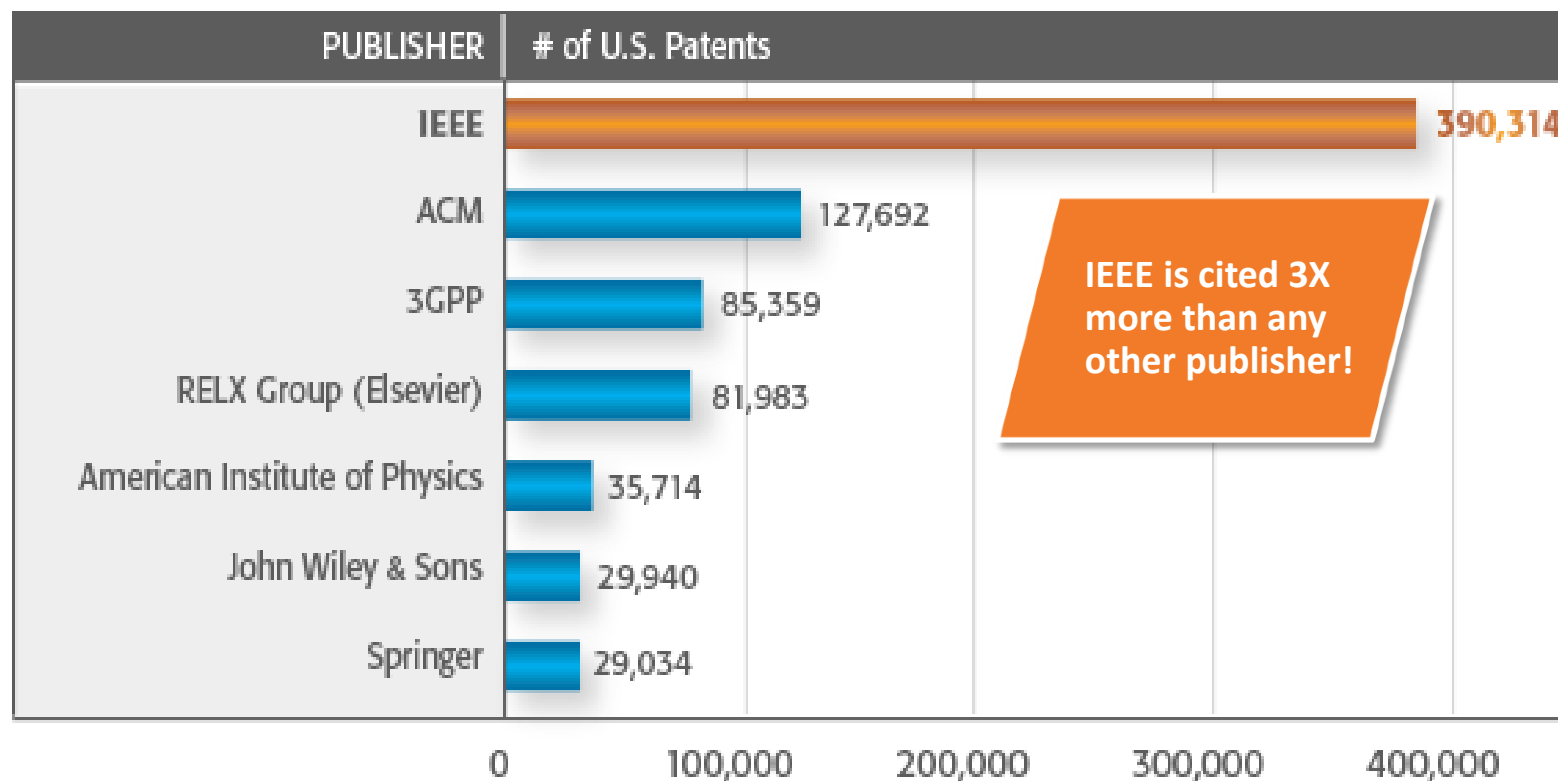
Source: 2018 Journal Citation Reports (Clarivate Analytics, 2019)

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

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

IEL (IEEE/IET Electrical Library)

IEL收錄量最多

完整收錄兩個學會的出版文獻

- 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



IEEE Xplore® 豐富的文獻量

5 Million

documents in full text PDF format

Over 3,900

approved and published
IEEE standards

Over 3,600

eBooks Titles

200

IEEE journals, magazines
and transactions

Proceedings from

over 1,800

IEEE and IET conference titles

Over 400

eLearning courses

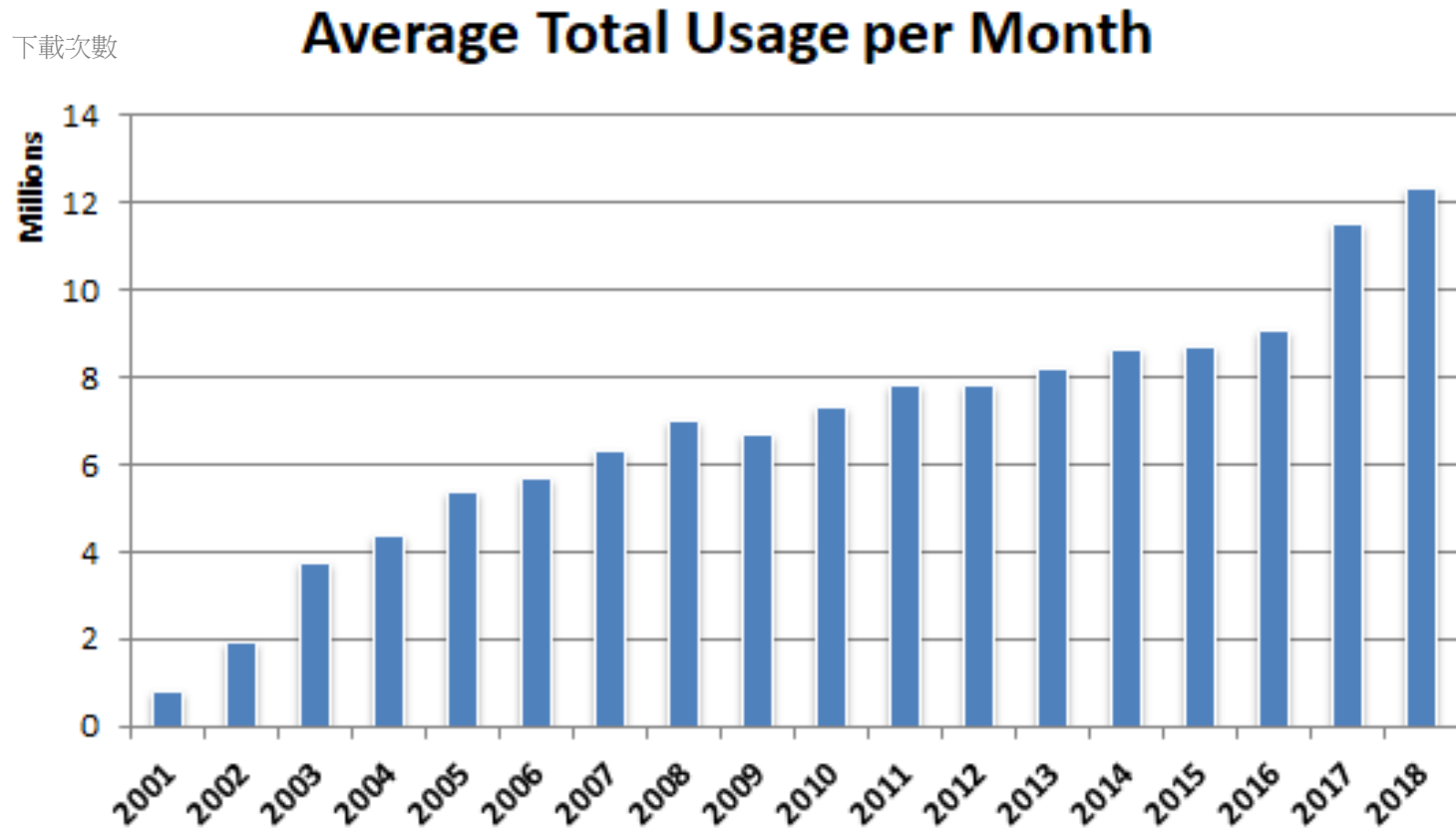
More than **1.7 million**
contributing authors

HINTON
INFORMATION SERVICES



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

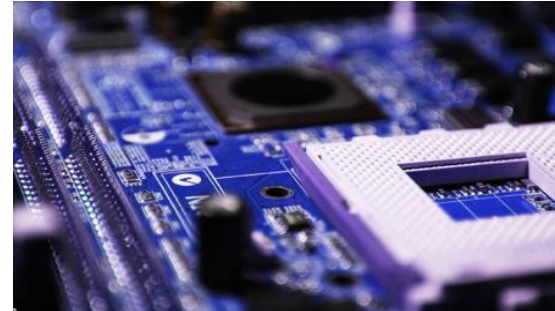


New IEEE Journals Coming in 2020

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>

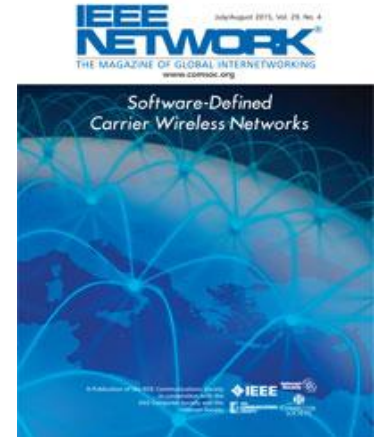
New IEEE Journals in 2019

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

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

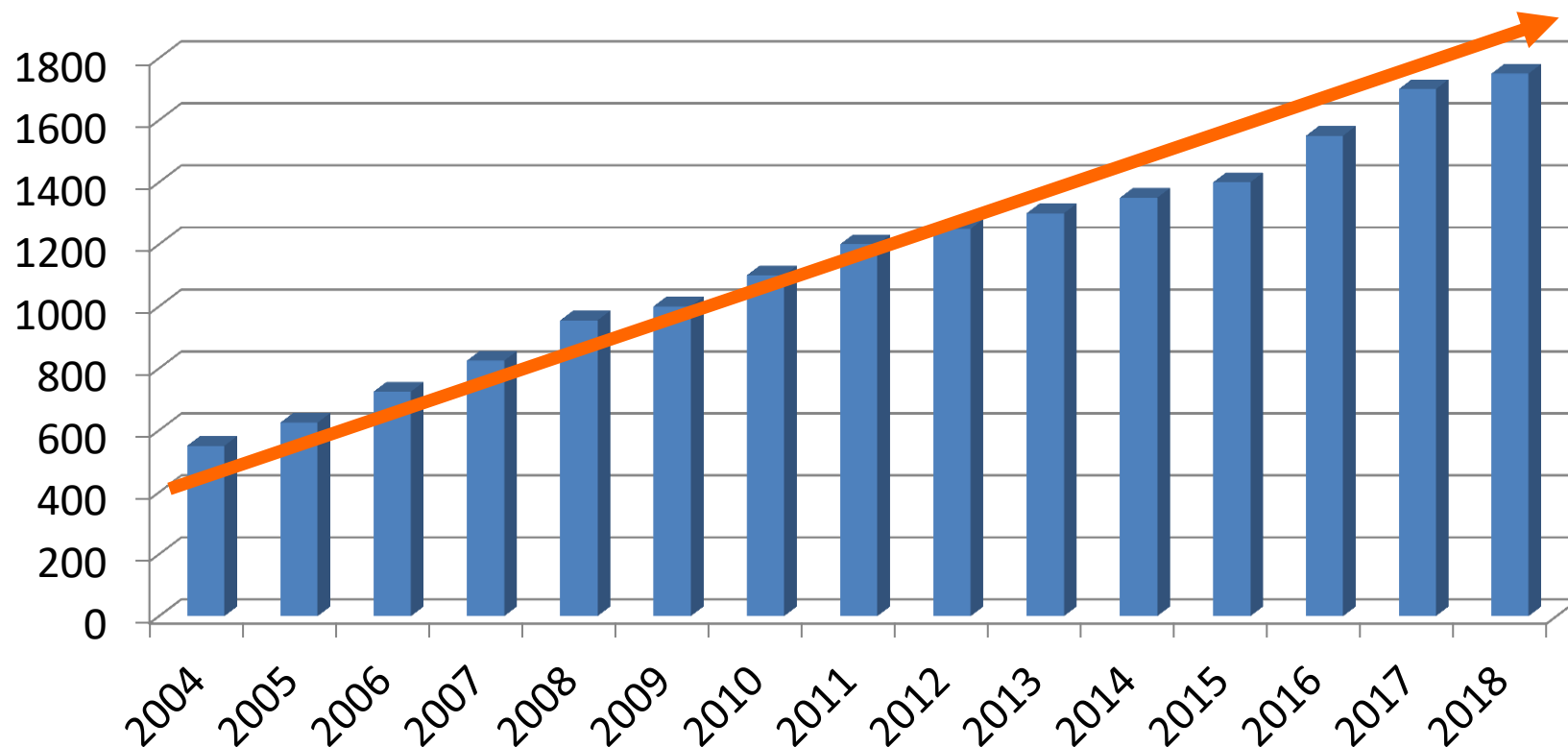
All included in an IEL subscription

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

依照不同的科技領域點選課程內容

[All Subscribed Courses >](#)



Aerospace



Bioengineering



Communication,
Networking &
Broadcasting



Components,
Circuits, Devices &
Systems



Computing &
Processing



Engineering
Profession



English for
Engineering



Fields, Waves &
Electromagnetics



Free Tutorials



General Topics for
Engineers



Photonics &
Electro-Optics



Power, Energy, &
Industry
Applications



Robotics & Control
Systems



Signal Processing
& Analysis



Transportation

E-Learning-提供多元學習及了解產業趨勢

Slide Title	Duration
Introduction	03:01 <input checked="" type="checkbox"/>
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
Self Evaluation: Questi...	00:00
Self Evaluation: Questi...	00:00
Self Evaluation: Questi...	00:00
Self Evaluation: Questi...	00:00
Self Evaluation: Questi...	00:00

記錄學習進度

點選TOC 看課程目錄



IEEE XPLORE[®]平台功能

瀏覽



檢索



個人化



網址：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. Annotations include:

- A red dotted line connects the '瀏覽功能' (Browse) link in the top navigation bar to the '依文獻類型' (By Document Type) list.
- A red dotted line connects the '檢索工具列' (Search Tools) list to the search bar area.
- A red dotted line connects the '熱搜關鍵字' (Hot Search Keywords) text to the 'Top Searches and Documents' section.
- A green box highlights the '個人化功能' (Personalization) area, which includes 'Browse', 'My Settings', and 'Help'.
- An orange box highlights the '顯示學校英文名稱' (Display School English Name) area, which is a text input field.
- A green box highlights the '個人化功能登入' (Personalization Login) area, which is a 'Personal Sign In' link.

The 'Top Searches and Documents' section displays the following data:

Keyword	Count
Image Processing	353,989
Antenna	268,706
Artificial Intelligence	194,294
Machine Learning	93,655
5G	19,387
Internet of Things	38,809
Big Data	45,108
Smart Grid	37,874
Deep Learning	29,930
Cloud Computing	64,711
Data Mining	111,692
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
[READ MORE](#)

Featured Content and News

IEEE 最新消息



New Course Program Explores IEEE Standard 1547TM - 2018
[READ MORE](#)



IEEE Launches TechRxiv Preprint Server
[READ MORE](#)



IEEE Announces Call for Papers for New Open..
[READ MORE](#)



IEEE Authors: Manage and Store Your Research Data..
[READ MORE](#)

IEEE 即將舉辦之研討會

Upcoming Conferences

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

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 the IEEE Xplore Digital Library logo, and links for Browse, My Settings, and Help. The main content area features a large banner with the text "Advancing" and a section titled "Top Searches and" with a "Blockchain 3,393" tag. A feedback widget is overlaid on the page, titled "IEEE Xplore Digital Library" and "Powered by Usabilla". It asks "What do you think of this?" and provides five smiley face icons for rating. Below the rating, there are three options: "Specific feedback" (I'd like to give feedback on a specific part of this page.), "Generic feedback" (I'd like to give general feedback on the entire website.), and "Need Help? Contact & Support". A red dotted line points from the "Feedback" button in the top right corner of the page to the feedback widget.

IEEE Xplore[®] Digital Library

Browse ▾ My Settings ▾ Help ▾

Advancing

All

Top Searches and

Blockchain 3,393

Feedback

Feedback

What do you think of this?

☹️ 😞 😐 😊 😄

Powered by Usabilla

Specific feedback
I'd like to give feedback on a specific part of this page.

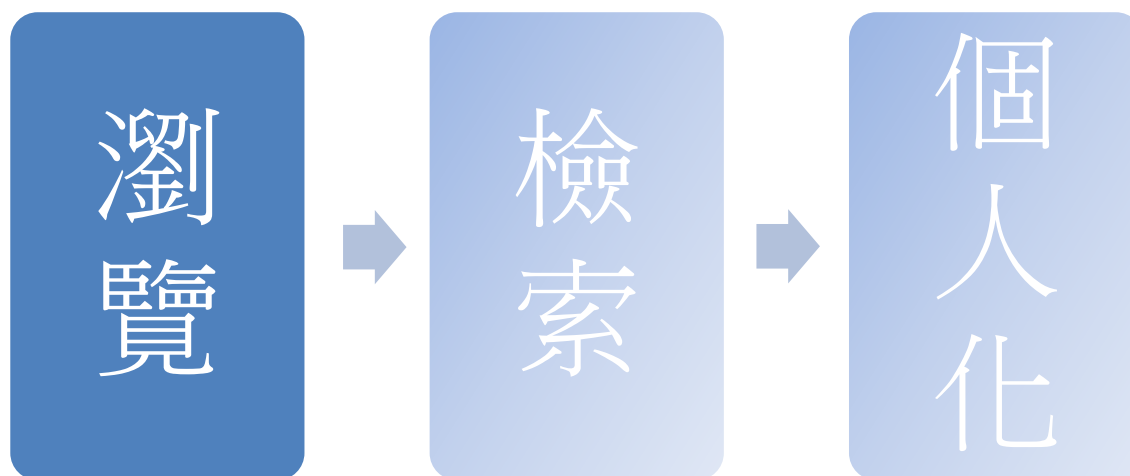
Generic feedback
I'd like to give general feedback on the entire website.

Need Help?
Contact & Support

Powered by Usabilla

Antenna 268,753

IEEE *Xplore*[®]平台功能



瀏覽功能Browse



The screenshot displays the IEEE Xplore Digital Library website. The 'Browse' menu is open, showing a list of document categories. A red callout box highlights the '依照文獻類別瀏覽' (Browse by Document Category) section, which lists five categories: a) 書籍 (Books), b) 會議論文 (Conference Papers), c) 線上課程 (Online Courses), d) 期刊雜誌 (Journals and Magazines), and e) 技術標準 (Technical Standards). The background of the website shows a banner for 'What is the Fourth Industrial Revolution?' with an illustration of a city and industrial elements.

IEEE Xplore[®]
Digital Library

Browse ▾ My Settings ▾

Books
Conferences
Courses
Journals & Magazines
Standards

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

What is the
Fourth Industrial Revolution?

IEEE

1. 期刊雜誌瀏覽

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

Advanced Search | Other Search Options ▾

Browse Journals & Magazines ⓘ

可輸入關鍵字查詢刊名

By Title | By Topic | Virtual Journals

Search by keywords **Q** Sign Up for Alerts **Title List**

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

期刊清單

Refine results by

☐ Show active titles only

Year ^

Single Year Range

1872, 2019

預先設定顯示筆數

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



Sign Up for Alerts | Title List

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 | Per Page: 25

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

ublisher: IEEE Years: 2015 - Present Most Recent Issue

Journal of Communications and Networks

ublisher: IEEE Years: 1999 - Present Most Recent Issue

Journal of Complex Networks

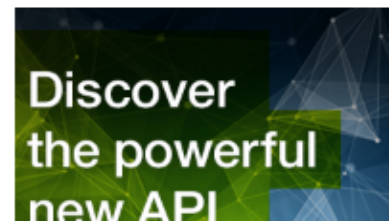
ublisher: OUP Years: 2013 - Present Most Recent Issue

EE Transactions on Control of Network Systems

ublisher: IEEE Years: 2014 - Present Most Recent Issue

actions on Green Communications and Networking

IEEE Years: 2017 - Present Most Recent Issue



左邊檢索欄可以進階篩選年份/出版社/主題

期刊首頁介紹

Browse Journals & Manuscripts - IEEE Network

IEEE Network

熱門文獻

提前文獻

Submit Your Manuscript

Add Title To My Alerts

IEEE ComSoc
IEEE Communications Society

Home Popular Early Access Current Issue All Issues About Journal

7.197 Impact Factor

0.0091 Eigenfactor

2.096 Article Influence Score

當期出版

所有文獻

期刊介紹

Advertisement

Need Full-Text

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

主旨

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. [View Full Aims & Scope](#)

Advertisement

MyXplore®
Mobile App

點選連結至IEEE Author Center 可獲得更多投稿出版資訊


IEEE Author Center

Publish with IEEE IEEE Journals IEEE Conferences

期刊資訊介紹

Browse Journals & Magazines > IEEE Network 

IEEE Network

 Submit
Your Manuscript

 Add Title
To My Alerts



IEEE
ComSoc
IEEE Communications Society

Home

Popular

Early Access

Current Issue

All Issues

About Journal

7.197
Impact
Factor

0.0091
Eigenfactor

2.096
Article
Influence
Score



[View Title History](#)

Aims & Scope

主旨

Author Resources

[Submission
Guidelines](#)

[Submit Your
Manuscript](#)

[Author Center](#)

[Become a
Reviewer](#)

[Additional
Information](#)

[Open Access
Publishing Options](#)

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

Advertisement

**Need
Full-Text**
access to IEEE Xplore
for your organization?

[REQUEST A FREE TRIAL >](#)

Advertisement

MyXplore®
Mobile App

get
the latest
IEEE
Research
Anytime, anywhere


HINTON
INFORMATION SERVICES

 **IEEE**

期刊瀏覽-熱門文獻

Browse Journals & Magazines > IEEE Network 

IEEE Network

 Submit
Your Manuscript

 Add Title
To My Alerts



IEEE
ComSoc
IEEE Communications Society


Home

Popular

Early Access

Current Issue

每月熱門Top 50

Popular Documents - April 2019  Popular Article Feed


Includes the 50 most frequently accessed documents for this publication.

Download PDFs ▾ | Export ▾ | Email Selected Results ▾


Displaying Results 1-50 of 50

點選標題查看更多資訊

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) 

HINTON
INFORMATION SERVICES

 IEEE

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

See the top organizations
patenting in technologies
mentioned in this article



Click to Expand >

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

Show Full Outline ▾

Authors

Figures

References

Citations

Keywords

Metrics

mechanisms that build on QoS monitoring.

ACKN

The spo
through
Founda
acknow
German
alone an

Authors

Figures

Referenc

Citati

1. "ITU-T

2008.

► Show

2. A. Bou

for Intern

► Show

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".

[View All References](#)

[View All Citations](#)

查看本文所引用的文獻

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

10510
Full
Text
Views

PDF下載

Email 本文鏈結

下載Citation

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 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

More Like This

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

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

[View More](#)



See the top organizations patenting in technologies mentioned in this article



[Click to Expand >](#)

2. 會議論文瀏覽

Browse Conferences

主題領域查詢

By Title | **By Topic**

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 | O | P | Q | R | S | T | U | V | W | X | Y | 0-9 | All

Displaying Results 1-25 of 7,946

Per Page 25 | v

依開頭字母順序查詢

所有會議論文清單

Refine results by ?

Year

Single Year | Range

1936 2019

From To

1936 2019

Publisher

Topic

Winter Applications and Computer Vision Workshops (WACVW), IEEE
Publisher: IEEE
[Show Title History](#)

ARFTG Conference
Publisher: IEEE
[Show Title History](#)

China-Qatar International Workshop on Artificial Intelligence and Applications to Intelligent Manufacturing (AIAIM)
Publisher: IEEE
[Show Title History](#)

3. 標準瀏覽


Browse Standards

依標準編號範圍查詢

By Collection | **By Number** | By Topic | By ICS Code | Reading Room | IEEE GET Program™

Select Publisher: IEEE | SMPTE | **依主題領域查詢**

Show: All Content | Subscribed Content

Search by keywords or by standards number 

[Sign Up for Alerts](#) [Title List](#)

All Collections >	2017 National Electrical Safety Code (NESC) and Handbook Online	Power and Energy >
Information Technology >	2017 National Electrical Safety Code (NESC) Online	Robotics and Automation
Power and Energy >	Aerospace Electronics	Smart Grid Research >
Smart Grid Research >	eHealth	Storage Systems Collection
Telecommunications >	Foundations for Smart Grid	Telecommunications >
Test Suite Specifications >	Information Technology >	Test Suite Specifications >
	Learning Technology	Vehicular Technology
	Nuclear Engineering	Wake-Up Radio



Browse Standards

By Collection

By Number

Select Publisher: IEEE

Search by keywords or by standard number

Browse Standard Range

0 - 99 | 100 - 199 | 200 - 299 | 300 - 399 | 400 - 499 | 500 - 599 | 600 - 699 | 700 - 799 | 800 - 899 | 900 - 999 | 1000 - 1099 | 1100 - 1199 | 1200 - 1299 | 1300 - 1399 | 1400 - 1499 | 1500 - 1599 | 1600 - 1699 | 1700 - 1799 | 1800 - 1899 | 1900 - 1999 | 2000 - 2099 | 2100 - 2199 | 2200 - 2299 | 2300 - 2399 | 2400 - 2499 | 2500 - 2599 | 2600 - 2699 | 2700 - 2799 | 2800 - 2899 | 2900 - 2999 | 3000 - 3099 | 3100 - 3199 | 3200 - 3299 | 3300 - 3399 | 3400 - 3499 | 3500 - 3599 | 3600 - 3699 | 3700 - 3799 | 3800 - 3899 | 3900 - 3999 | 4000 - 4099 | 4100 - 4199 | 4200 - 4299 | 4300 - 4399 | 4400 - 4499 | 4500 - 4599 | 4600 - 4699 | 4700 - 4799 | 4800 - 4899 | 4900 - 4999 | 5000 - 5099 | 5100 - 5199 | 5200 - 5299 | 5300 - 5399 | 5400 - 5499 | 5500 - 5599 | 5600 - 5699 | 5700 - 5799 | 5800 - 5899 | 5900 - 5999 | 6000 - 6099 | 6100 - 6199 | 6200 - 6299 | 6300 - 6399 | 6400 - 6499 | 6500 - 6599 | 6600 - 6699 | 6700 - 6799 | 6800 - 6899 | 6900 - 6999 | 7000 - 7099 | 7100 - 7199 | 7200 - 7299 | 7300 - 7399 | 7400 - 7499 | 7500 - 7599 | 7600 - 7699 | 7700 - 7799 | 7800 - 7899 | 7900 - 7999 | 8000 - 8099 | 8100 - 8199 | 8200 - 8299 | 8300 - 8399 | 8400 - 8499 | 8500 - 8599 | 8600 - 8699 | 8700 - 8799 | 8800 - 8899 | 8900 - 8999 | 9000 - 9099 | 9100 - 9199 | 9200 - 9299 | 9300 - 9399 | 9400 - 9499 | 9500 - 9599 | 9600 - 9699 | 9700 - 9799 | 9800 - 9899 | 9900 - 9999 | C | N | S | T | Y | All

Refine results by ?

Standard Status

- ☐ Active (1,241)
- ☐ Inactive (1,621)

Standard Type

- ☐ Standard Docs (1,886)
- ☐ Research Documents (8)

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

Publisher: IEEE

Hide Version Details

Active

現行

Approved

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

Inactive

歷史

Superseded

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

» Superseded by IEEE Std 1-2000

» Revision of ANSI/IEEE Std 1-1986

Superseded

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

» Superseded by ANSI/IEEE Std 1-1986

Superseded

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

List

99 | 3000 - >

IEEE Standards Dictionary

Access using your IEEE Account.

Need an account? Sign-up for free today!

Related Links

Standards Status Report
Data and Creation Sheets

標準瀏覽-紅線標準 Redline Standards

Browse ▾

My Settings ▾

Get Help ▾

All ▾

Enter keywords or phrases (Note: Searches metadata only)

Search

Other Search Options ▾

Browse Standards ?

C2-2017 - 2017 National Electrical Safety Code(F

Revision of [National Electrical Safety Code, C2-2012](#)

Status: Active - Redline

View Document

1626
Full
Text Views

改版出處

Abstract

Figures

References

Citations

Keywords

Abstract:

This Code covers basic provisions for safeguarding of persons from hazards arising from 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 operated by other complex under the control of qualified persons. This Code consists of the introduction and the following parts:

The environmental performance criteria of the IEEE 1680 family of standards are intended to define a measure of environmental leadership in: the design and manufacture of ~~personal computer~~ electronic products ~~that are marketed to institutions~~; the delivery of specified services that are associated with the sale of the product ~~to institutions~~; and in associated corporate performance characteristics.

This family of standards is defined with the intention that the criteria are technically feasible to achieve, but that only products demonstrating the leading environmental performance currently available in the marketplace would meet them at the time of their adoption. As the environmental performance of products that are available in the marketplace improves, it is intended that the criteria will be updated and revised to set a higher performance standard for leadership products.

This standard is intended to serve as a baseline for further environmental standards for additional electronic products to be developed in the future. References to IEEE Std 1680 likewise reference, unless otherwise specified, the individual product standards in the IEEE 1680 family of standards.

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~~ personal 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.

HINTON
INFORMATION SERVICES

IEEE 45

HTML 全文瀏覽(A)

全新互動式閱讀，提升效率

Search within results  Download PDFs ▼ | Per Page: 25 ▼ | Export ▼ | Set Sea

Displaying results 1-25 of 48,455 for "cloud computing" x

☐ Conferences (41,115) ☐ Journals & Magazines (6,185) ☐ Early Access Articles (804)


☐ Books (291) ☐ Courses (55) ☐ Standards (5)

Show

☒ All Results


☐ My Subscribed Content

☐ Open Access

Year 

Single Year Range

☐ Select All on Page Sort By: Most Cited [By Papers] ▼

☐ **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
Citations6
Patent
Citations12157
Full
Text Views

快速掌握全文關鍵



Abstract

Document Sections

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

[Authors](#)[Figures](#)[References](#)[Citations](#)[Keywords](#)[Metrics](#)

Abstract:

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

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

Page(s): 51 - 56

INSPEC Accession Number: 11228200

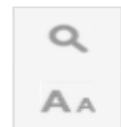
Date of Publication: 08 April 2010 [?](#)

DOI: 10.1109/MC.2010.98

► ISSN Information:

Publisher: IEEE

利用左方列表跳轉至作者、圖像公式、引用 / 被引用文獻 等 資 訊



IEEE *Xplore*[®]平台功能



基本檢索Basic Search工具列

IEEE Xplore®
Digital Library

> Institutional Sign In



Browse ▾

My Settings ▾

Get Help ▾

Subscribe

Search 4,825,371 items

All ▾

Intelligent Control



Advanced Search

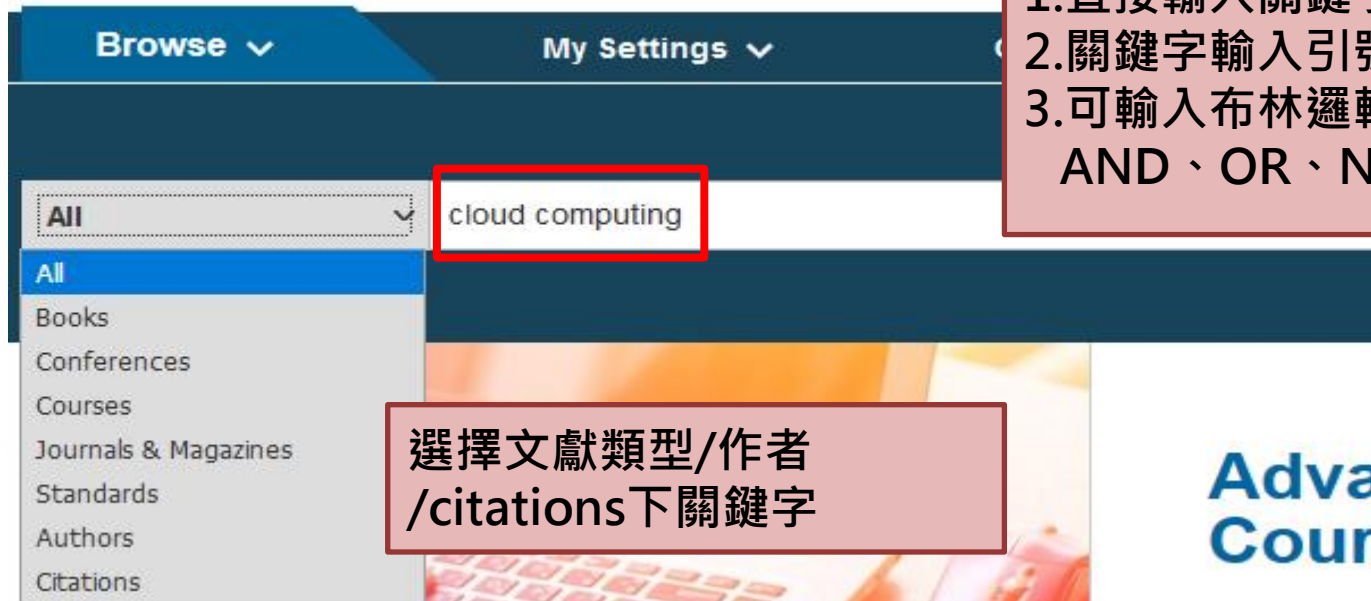
Other Search Options ▾

進階檢索 其他檢索

HINTON
INFORMATION SERVICES



基本檢索Basic Search-更精確的檢索結果



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

未使用引號:cloud computing

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

使用引號:"cloud computing"

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

Browse ▾ My Settings ▾ Get Help ▾

Year **檢索列** Single Year Range

From 1930 To 2019

Advanced Search | Other Search Options ▾

Set Search Alerts ▾ | Search History

依目前搜尋結果再次輸入關鍵字搜尋

勾選文獻類型

Publications & Magazines (7,126) ☐ Early Access Articles (892)

Standards (10) ☐ Standards (10)

出版年份

作者

所屬單位

出版刊物

出版商

補充項目

研討會舉辦地點或國家

標準狀態

標準種類

關鍵字

Sort By: Relevance ▾

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

排序可以依照

- 出版新舊
- 文獻引用程度
- 專利引用程度
- 字母排序

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

<p>Author ^</p> <p>Enter Author Name</p> <ul style="list-style-type: none"><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) <p>View more...</p>	<p>Affiliation ^</p> <p>Enter Affiliation</p> <ul style="list-style-type: none"><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) <p>View more...</p>	<p>Publication Title ^</p> <p>Enter Title</p> <ul style="list-style-type: none"><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) <p>View more...</p>	<p>Publisher ^</p> <ul style="list-style-type: none"><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) <p>View more...</p>
---	---	--	--

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

補充項目

Supplemental Items

- ☐ Media (432)
- ☐ Code (2)
- ☐ Datasets (1)

研討會舉辦地點

Conference Location

Enter Location

- ☐ Beijing (1,327)
- ☐ San Francisco, CA (1,218)
- ☐ Shanghai (822)
- ☐ New York, NY (796)
- ☐ Chengdu (792)

[View more...](#)

標準狀態

Standard Status

- ☐ Active (5)
- ☐ Inactive (4)

標準種類

Standard Type

- ☐ Standard Docs (6)
- ☐ Whitepapers (3)

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)
- ☐ Antonio Puliafito (81)

快速定位該領域專家

顯示發表文章數量最高的
前25位作者

機構檢索與分析

快速定位該領域的領先研究機構；深度了解該關注的研究機構，為申請學校和進入公司做準備

Affiliation

Enter Affiliation

- ☐ University of Western Sydney (60)
- ☐ School of Computer Engineering, Nanyang Technological University, Singapore (56)
- ☐ Alcatel-Lucent Reliability (47)
- ☐ School of Computer Science and Technology, Huazhong University of Science and Technology, Wuhan, China (40)
- ☐ Beijing University of Posts and Telecommunications, Beijing 100876, China (39)
- ☐ Department of Computer Science and Technology, Tsinghua University, Beijing, China (37)
- ☐ State Key Laboratory of Networking and Switching Technology, Beijing University of Posts and Telecommunications, Beijing, China (37)

前25名出版機構

可檢索機構名、地名和國家

Affiliation

intel

- ☐ Beijing Key Laboratory of Intelligent Telecommunications Software and Multimedia, Beijing University of Posts and Telecommunications, Beijing, China (12)
- ☐ Intel (8)
- ☐ Intel Corporation (8)

Affiliation

Taiwan

- ☐ Department of Computer Science, National Chiao Tung University, Hsinchu, Taiwan (13)
- ☐ Department of Computer Science, National Tsing Hua University, Hsinchu, Taiwan (12)
- ☐ Department of Electrical Engineering, National Taiwan University, Taipei, Taiwan (11)
- ☐ Institute of Information Science, Academia Sinica, Taipei, Taiwan (11)

多重縮小檢索範圍

了解哪些期刊、會議可能是投稿對象

Publication Title ^	Publisher ^	Conference Location ^
<input type="text" value="Enter Title"/>		<input type="text" value="Enter Location"/>
<div><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)</div>	<div><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) <input type="checkbox"/> IBM (65) <input type="checkbox"/> MITP (48) <input type="checkbox"/> SMPTE (43) <input type="checkbox"/> VDE (19) <input type="checkbox"/> Morgan & Claypool (16) <input type="checkbox"/> AGU (14) <input type="checkbox"/> Nokia Bell Labs (14)</div>	<div><input type="checkbox"/> Beijing (1,327) <input type="checkbox"/> San Francisco, CA (1,218) <input type="checkbox"/> Shanghai (822) <input type="checkbox"/> New York, NY (796) <input type="checkbox"/> Chengdu (792) <input type="checkbox"/> Guangzhou (734) <input type="checkbox"/> London (723) <input type="checkbox"/> Washington, DC (678) <input type="checkbox"/> Hangzhou (642) <input type="checkbox"/> Singapore (642) <input type="checkbox"/> Noida (628)</div>

Advanced Search Options

Advanced Keyword/Phrases

Command Search

Citation Search

Preferences

ENTER KEYWORDS OR PHRASES, SELECT FIELDS, AND SELECT OPERATORS

Note: Refresh page to reflect updated preferences.

輸入關鍵字

欄位設定

Metadata Only

Full Text & Metadata

in Metadata Only

AND

in Metadata Only

AND

in Metadata Only

增加欄位

Add New Line

Reset All

SEARCH

CONTENT FILTER

CONTENT TYPES

PUBLICATION YEAR

All Results

Open Access

PUBLISHER

Return Results from

IEEE(4,377,041)

IET(243,517)

OUP(78,765)

MITP(26,270)

SMPTE(25,498)

VDE(11,507)

AGU(8,027)

IBM(6,496)

BIAI(3,319)

TUP(2,719)

URSI(1,130)

Morgan & Claypool(81)

now(492)

SAIEE(381)

CSEE(222)

CES(119)

文獻類型

Conferences (3,372,094)

Journals & Magazines (1,359,601)

Books (43,812)

Early Access Articles (17,765)

Standards (9,421)

Courses (487)

出版單位

出版年份

Documents Added Between: (01/30/2019 and 02/06/2019)

Specify Year Range From: All To: Present

All Available Years

SEARCH

HINTON
INFORMATION SERVICES

IEEE

操作練習：檢索功能


1. 用檢索功能。

關鍵字：**Big Data**。年代：**2017-2019**年
查找 *被期刊引用次數高* 的文章。

2. 請開啟並下載：



((html))

 Download Citations



3. 滾雪球研究：



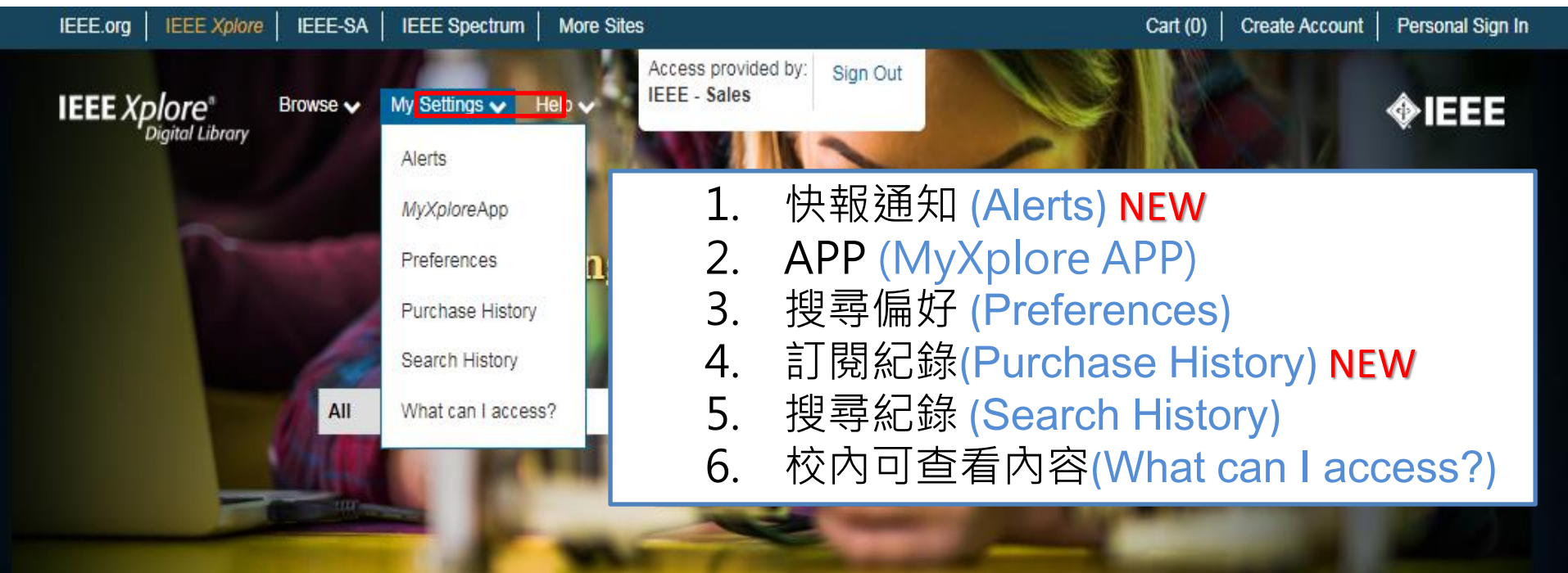
Citation Map

相關文獻瀏覽

IEEE *Xplore*[®]平台功能



個人化設定 **My Setting** **NEW**



The screenshot shows the IEEE Xplore Digital Library website. 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 Cart (0), Create Account, and Personal Sign In. The main header area features the IEEE Xplore Digital Library logo, a 'Browse' dropdown, and a 'My Settings' dropdown menu. The 'My Settings' menu is open, showing options: Alerts, MyXploreApp, Preferences, Purchase History, Search History, and What can I access?. A red box highlights the 'My Settings' dropdown. A 'Sign Out' button is visible next to the 'Access provided by: IEEE - Sales' text.

1. 快報通知 (Alerts) **NEW**
2. APP (MyXplore APP)
3. 搜尋偏好 (Preferences)
4. 訂閱紀錄(Purchase History) **NEW**
5. 搜尋紀錄 (Search History)
6. 校內可查看內容(What can I access?)

免費申請帳號 (Create Account)



IEEE.org | IEEE Xplore | IEEE-SA | IEEE Spectrum | More Sites | SUBSCRIBE | Cart (0) | Create Account | Personal Sign In

IEEE Xplore® Digital Library | Browse ▼ | My Settings ▼ | Help ▼ | Institutional Sign In | IEEE

Create an IEEE Account ?

*Required fields

Provide your personal information

*Given/First name:

*Last/Family/Surname:

Enter e-mail address & password

The e-mail address provided here will be the username of your account

*E-mail address:

*Re-enter e-mail address:

*Password: [What is a valid password?](#)

*Confirm Password:

Password Strength

Alert I. 快報通知 (Content Alert)

The screenshot displays the IEEE Xplore Digital Library interface. At the top, there is a search bar with a dropdown menu set to 'All' and a search input field. Below the search bar, the 'Alerts' section is highlighted with a red box. The 'Alerts' section includes a heading 'Alerts' with a help icon, a description 'Manage your research quickly and efficiently with convenient email alerts. Alerts will be sent to sharon.hsu@hint', and a row of tabs: 'Journals & Magazines', 'Conferences', 'Standards', 'Books', and 'Citation'. The 'Journals & Magazines' tab is selected and highlighted with a red box. Below the tabs, there is a 'Refine Results by' section with three categories: 'Content Type', 'Publisher', and 'IEEE Access'. Under 'Content Type', 'Journals (249)' and 'Magazines (49)' are listed. Under 'Publisher', 'IEEE Transactions on Aerospace and Electronic Systems' is listed. The 'IEEE Access' section is also visible. On the right side of the interface, a 'My Settings' dropdown menu is open, showing options: 'Alerts', 'MyXploreApp', 'Preferences', 'Purchase History', 'Search History', and 'What can I access?'. A red arrow points to the 'My Settings' dropdown menu. At the bottom right, there is an advertisement for 'Accessibility Testing' by Hinton Information Services, which includes the text 'We are recruiting assistive technology users to share their experience on IEEE Xplore' and 'Honorarium Included'.

IEEE Xplore® Digital Library

My Settings ▾ Help ▾

Alerts

MyXploreApp

Preferences

Purchase History

Search History

What can I access?

All

Alerts ?

Manage your research quickly and efficiently with convenient email alerts. Alerts will be sent to sharon.hsu@hint

Journals & Magazines Conferences Standards Books Citation

Refine Results by

Select All

Content Type ^

IEEE Access

Journals (249)

Magazines (49)

Publisher ▾

IEEE Transactions on Aerospace and Electronic Systems

Advertisement

Accessibility Testing

We are recruiting assistive technology users to share their experience on IEEE Xplore®

Honorarium Included


Alert I. 快報通知 (Content Alert)

< Journal Alert 期刊雜誌追蹤訂閱 >

[Browse Journals & Magazines](#) > [IEEE Aerospace and Electronic ...](#) ?

IEEE Aerospace and Electronic Systems Magazine

 [Submit Your Manuscript](#)

 [Add Title To My Alerts](#)



[Home](#)

[Popular](#)

[Current Issue](#)

[All Issues](#)

[About Journal](#)

2.113
Impact Factor

0.00162
Eigenfactor

0.448
Article Influence Score



IEEE Aerospace and Electronic Systems Magazine is a monthly magazine that publishes articles concerned with the various aspects of systems for space, air, ocean, or ground environments as well as news and information of interest to IEEE Aerospace and Electronic Systems Society members.

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.

檢索條件通知 (Save Search Alerts)



Browse ▾ My Settings ▾ Get Help ▾

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

Advanced Search | Other Search Options ▾

Search within results 🔍

Download PDFs ▾ | Per Page: 25 ▾ | Export ▾ | **Set Search Alerts ▾** | Search History

Showing 1-25 of 59,378 for **ROBOT** x **automation** x

☐ Conferences (50,988) ☐ Journals (6,906) ☐ Magazines (1,243)

☐ Books (13) ☐ Courses (13) ☐ Standards (6)

檢索條件

設定檢索條件名稱

點選檢索條件通知

Set Alert

Search Alert Name*
2020 PLAN A

Email Address
virginia.chen@hintoninfo.com

Cancel Save

Any Terms ?

• Straight-through processing (STP)
• activity
• artificial general intelligence (AGI)
• artificial intelligence (AI)
• artificial intelligence (AI) learning

Show

☒ All Results
☐ My Subscribed Content
☐ Open Access

Year ^

☐ Select All on Page

☐ An auto-teach/re-teach implementation of industrial **robots** for bio-product manufacturing **automation**
Weimin Tao ; B. Larson ; K. Clay
2003 IEEE International Conference on Robotics and **Automation** (Cat. No.03CH37422)
Year: 2003 | Volume: 2 | Conference Paper | Publisher: IEEE
▶ Abstract [\(\(html\)\)](#) [PDF \(283 Kb\)](#) [©](#)

☐ A fast method for mobile **robot** transportation in life science **automation**

Alerts

MyXplore App

Preferences

Purchase History

Search History

What can I access?

Alerts II.檢索條件通知 (Save Search Alerts)

23 new results for 'iot mobile'

Inbox x



IEEE Xplore Search Alerts <no-reply@ieee.org>

to me

IEEE Xplore Search Alerts

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)

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

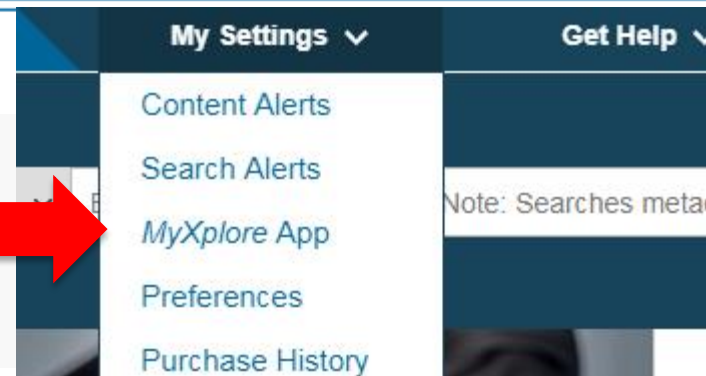
發送檢索條件下最新文章的通知至e-mail

" Content Type[Journals & Magazines] "

4 car with iot

You Searched For

My Xplore App



登入個人帳號

MyXplore™

Sign in with your IEEE Member or Personal account or create an account.

Email Address

Password

Sign In

[Forgot password?](#)

[Don't have an account?](#)

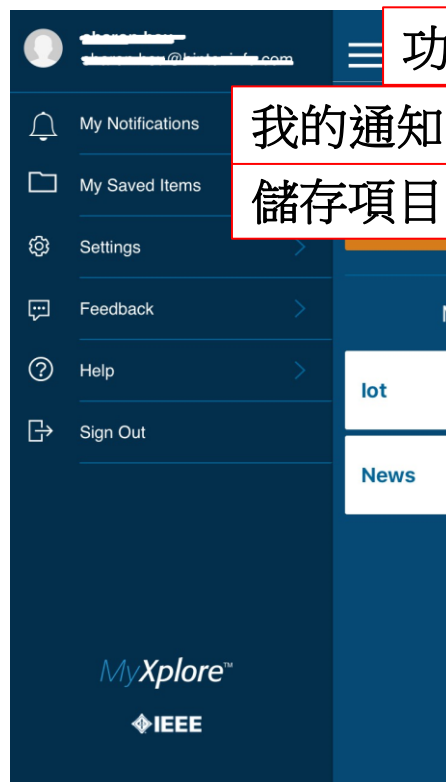
Create Account

Powered by
IEEE Xplore®
Digital Library

IEEE

功能列

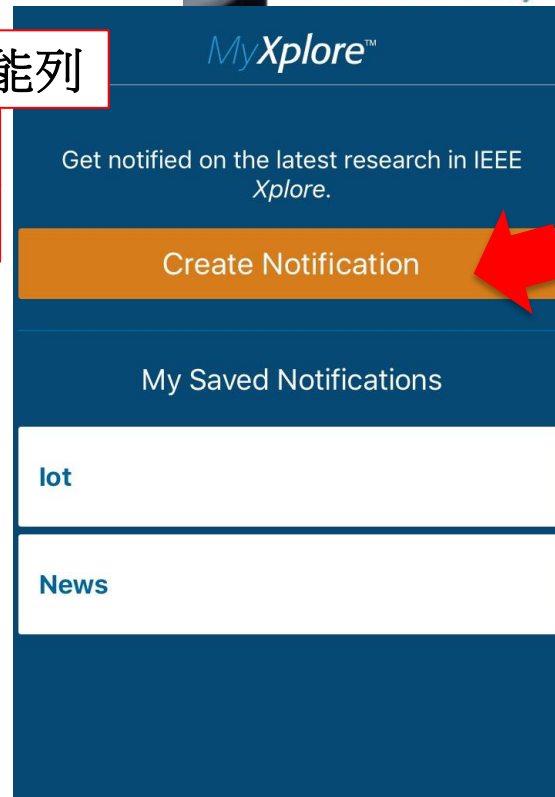
我的通知
儲存項目



Create Notification



新增關注主題



MyXplore®



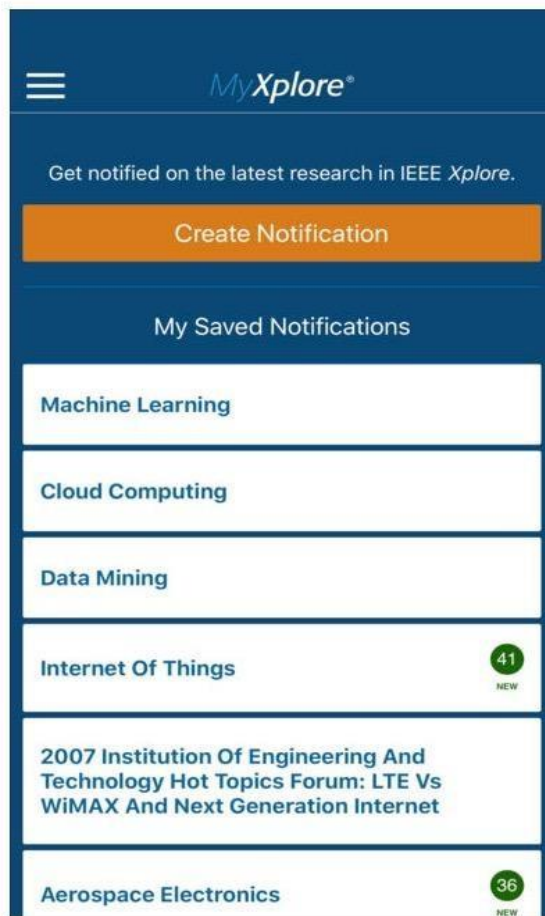
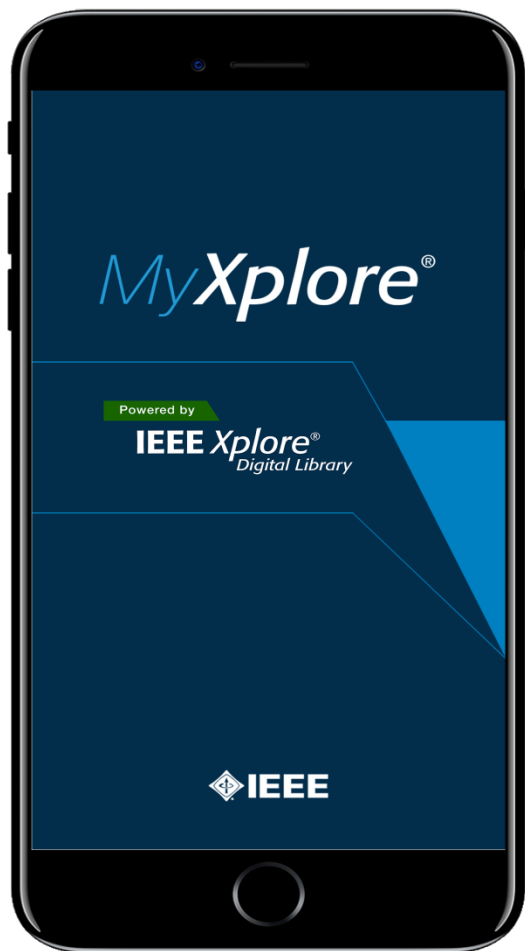
"My Xplore" App



Download on the
App Store



GET IT ON
Google Play



在平板或手機也可使用相同之查找檢索功能。

HINTON
INFORMATION SERVICES



MyXplore®



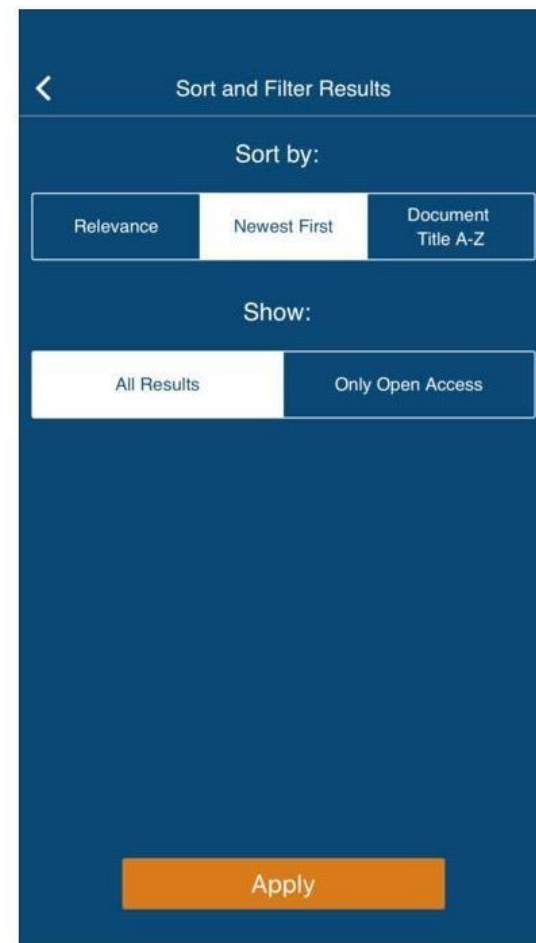
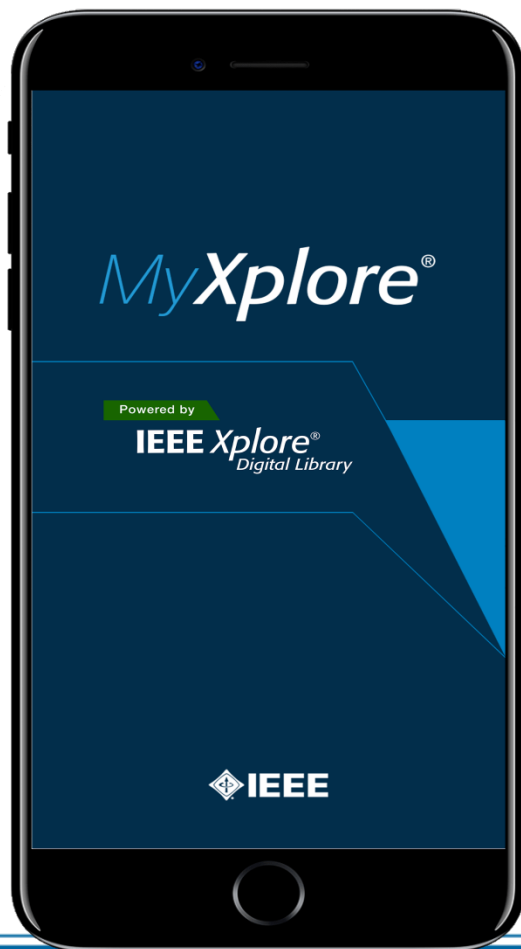
"My Xplore" App



Download on the
App Store



GET IT ON
Google Play



在平板或手機也可使用相同之查找檢索功能。

HINTON
INFORMATION SERVICES



IEEE

My Xplore App

IEEE Xplore®
Digital Library

Browse ▾ My Settings ▾ Get Help ▾ Institutional Sign In

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

My Saved Items ?

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
IEEE Transactions on Information Forensics and Security
Jan. 2019

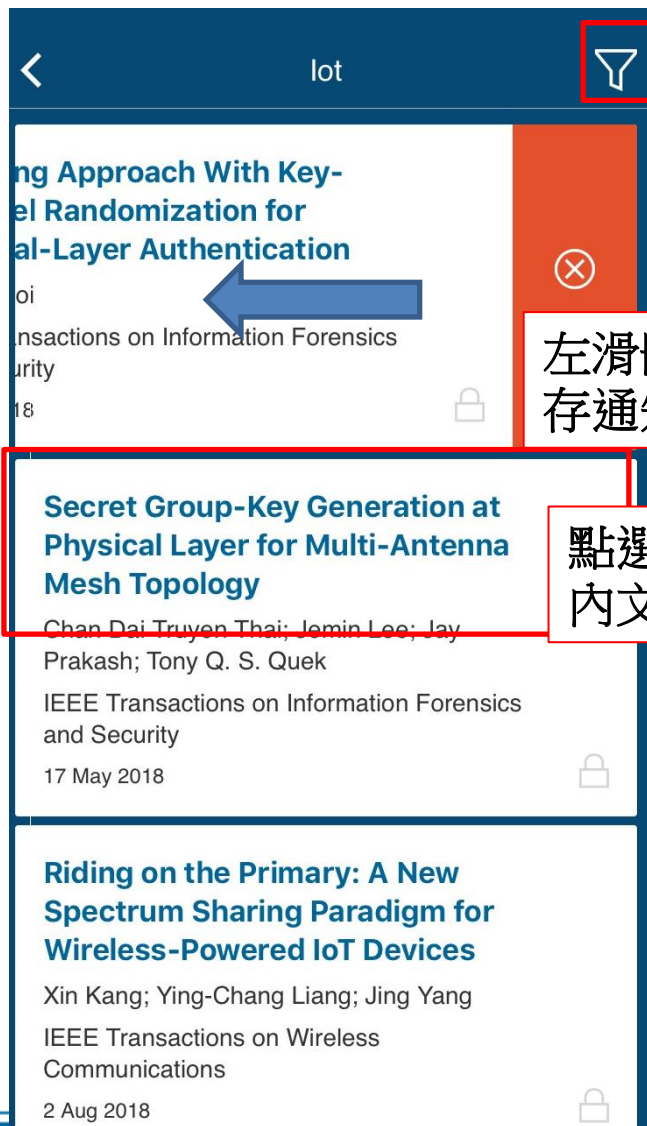
IEEE Account Purchase Details Profile Information
» Change Username/Password » Payment Options » Communications Pr...

My Settings ▾ Get Help ▾
Content Alerts
Search Alerts
MyXplore App
Preferences
Purchase History

My Saved Items
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

Options ▾
Remove

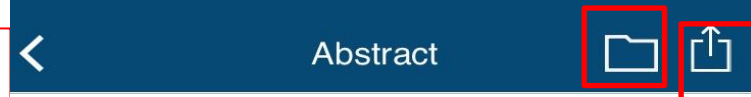
瀏覽器與app
同步儲存



選擇排序方式

左滑刪除或儲存通知

點選標題查看內文



分享

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...

至瀏覽器詳看全文

See More at IEEE Xplore

檢索偏好(Preference)

Preferences ?

Search Options

Search

All Metadata	Full Text & Metadata	Full Text Only ?
--------------	----------------------	------------------

Search History Recording

On	Off
----	-----

Results Layout

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

Results Per Page

25

Sort By

Newest First

Publisher

- ☒ ALL
- ☐ IEEE
- ☐ IET
- ☐ MITP
- ☐ SMPTE

[View more...](#)

Citation Download Options

Include

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

Format

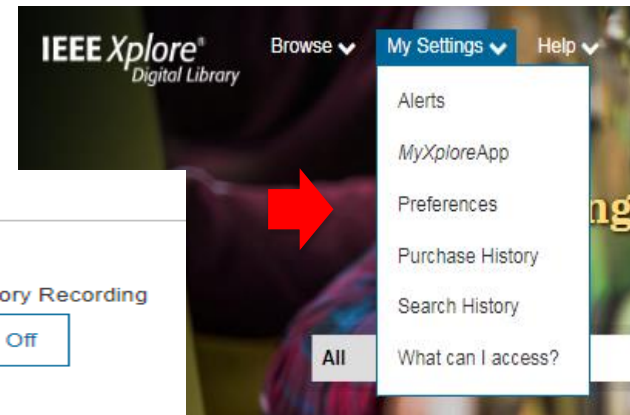
Plain Text	BibTex	RIS	RefWorks
------------	--------	-----	----------

Email Alert Options

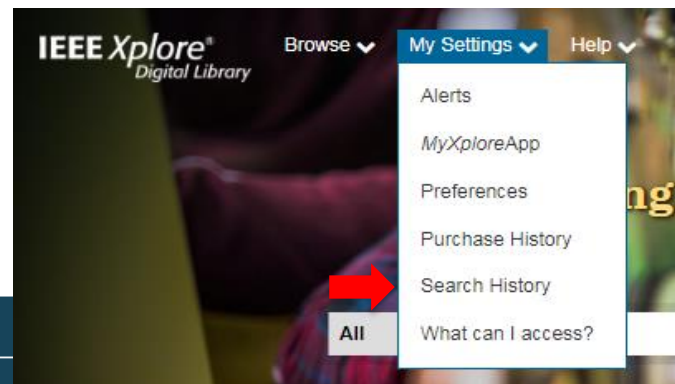
This will only be used for receiving e-mail alerts from IEEE Xplore. Changing this will not affect the e-mail address associated with your IEEE Account. [Learn more](#)

virginia.chen@hintoninfo.com

Update



檢索紀錄 (Search History)



Browse ▾

My Settings ▾

Get Help ▾

All ▾

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

Select multiple searches to combine them together.

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

#	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

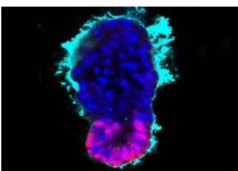
Artificial Embryos

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



IEEE Xplore:

- 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



IEEE Xplore:

- 24,000+ articles on "speech recognition"
- 20,000+ articles on "language processing"

IEEE Xplore:

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

IEEE Xplore:

- 48,000+ articles on "cryptography"
- 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

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

QUIZS : Search IEL - IEEE Xplore

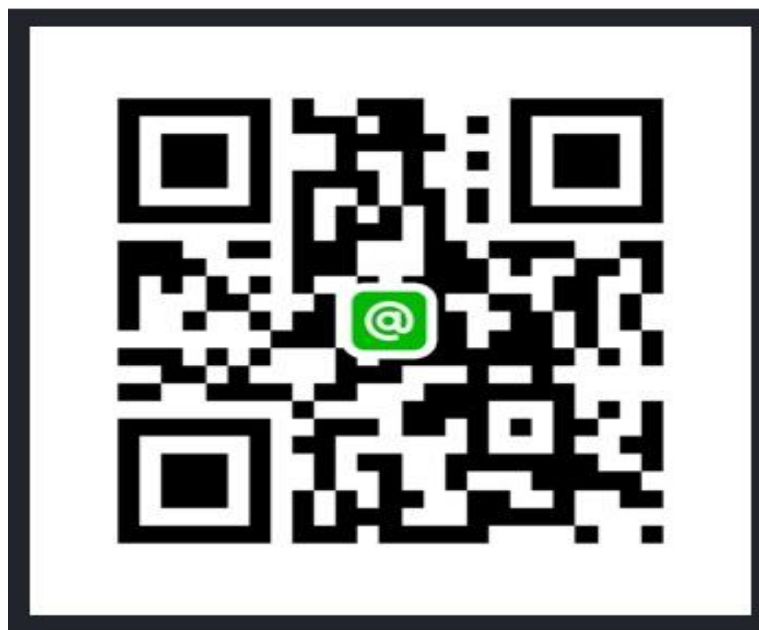
人工智慧： Artificial intelligence	燃料電池：Fuel cell	光纖通訊 Fiber Optic Communication
嵌入式系統： Embedded System	智慧電網：Smart grid	有機發光二極體： OLED：Light-emitting diode
有機光電元件： OLED, Solar Cell	馬達驅動： Motor drive	軌道電力系統： Railway Power System
天線工程 Antenna Engineering	無線射頻辨識：RFID	光纖雷射 / 光纖感測： Fiber laser / Fiber Sensing
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

立刻掃描加入涵堂資訊LINE@好友

資料庫最新消息及功能 x 抽獎活動 x 系統異常回覆 一手掌握



Hinton Info
@qwr7188d



HINTON
INFORMATION SERVICES

如有問題，歡迎
透過此與我們聯絡

HINTON
INFORMATION SERVICES



TAKEAWAY

- 使用IEEE Xplore® Digital library 文獻
 - 提升研究學習與國際俱進
- 熟悉平台收錄內容 獲取更完整多元文獻訊息
- 運用瀏覽、檢索、個人化設定功能提升工作效率

了解更**IEEE Xplore**®運用

- 觀看線上教學影片：
<http://ieeexplore.ieee.org/Xplorehelp/#/ieee-xplore-training/video-tutorials>
- 線上申請**LIVE**教育訓練：
www.ieee.org/go/training
- 體驗資料庫，請至：
www.ieee.org/ieeexplore

Contact us at service@hintoninfo.com
涵堂資訊有限公司 學術部門



The Best Professional Development Activity Winner – - IEEE University of Southampton Student Branch (STB09551) ,UK&RI Section

Questions?



涵堂資訊有限公司 陳佳慧 Virginia

Tel: (02) 2799-3110 ext. 216

Fax: (02) 2799-5560

Email: service@hintoninfo.com

HINTON
INFORMATION SERVICES
基泰國際關係企業

涵堂資訊有限公司

www.hintoninfo.com.tw

台北市11494內湖區瑞湖街103號(波昂科技中心)6樓之3

TEL :+886 2 27993110 FAX :+886 2 27995560