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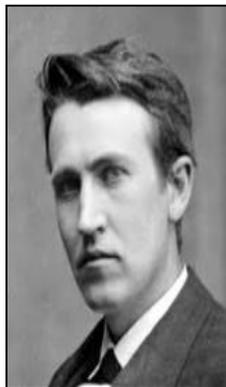
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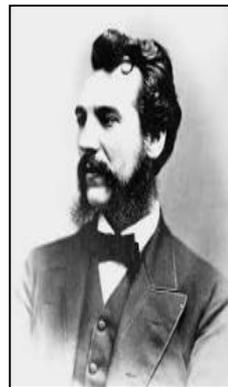
一起開會的場景嗎？

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與其他著名電氣工程師在費城的
會議上會面，

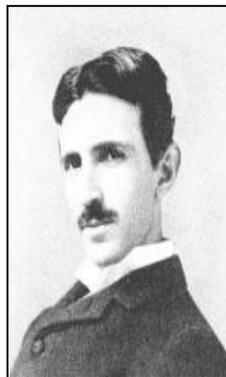
這是美國第一次舉行正式的電氣
工程師技術會議



Thomas Edison



Alexander Graham Bell



Nikola Tesla



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

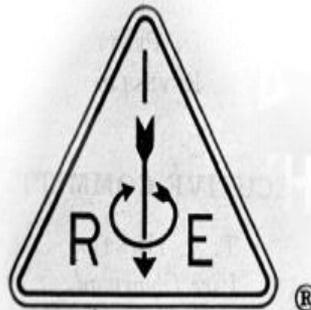
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1884 1912 1963 Present

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American Institute
of Electrical Engineers



IRE
Institute of Radio
Engineers



60年前的1月1號，AIEE和IRE合併成為
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1912年，無線技術和電子領域的先驅們創立了更具國際性的無線電工程師學會 (Institute of Radio Engineers)

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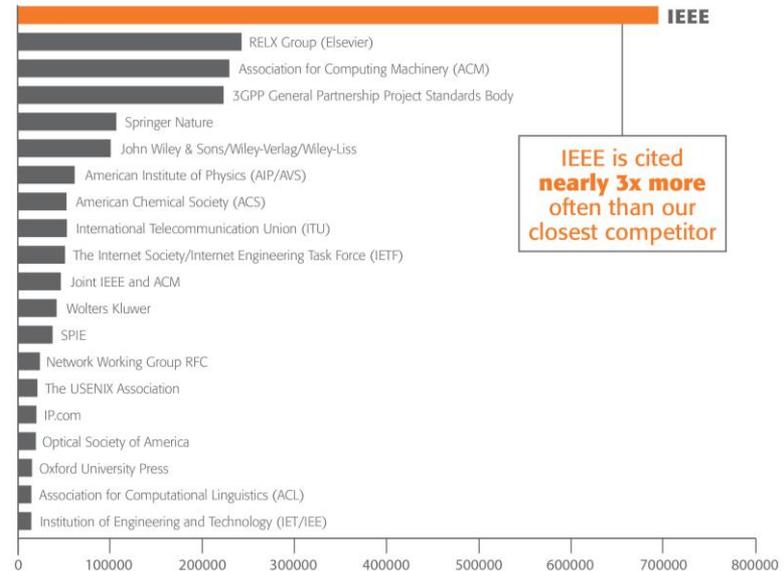
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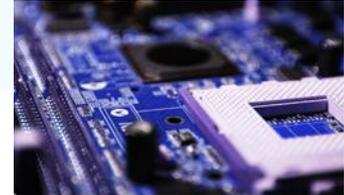
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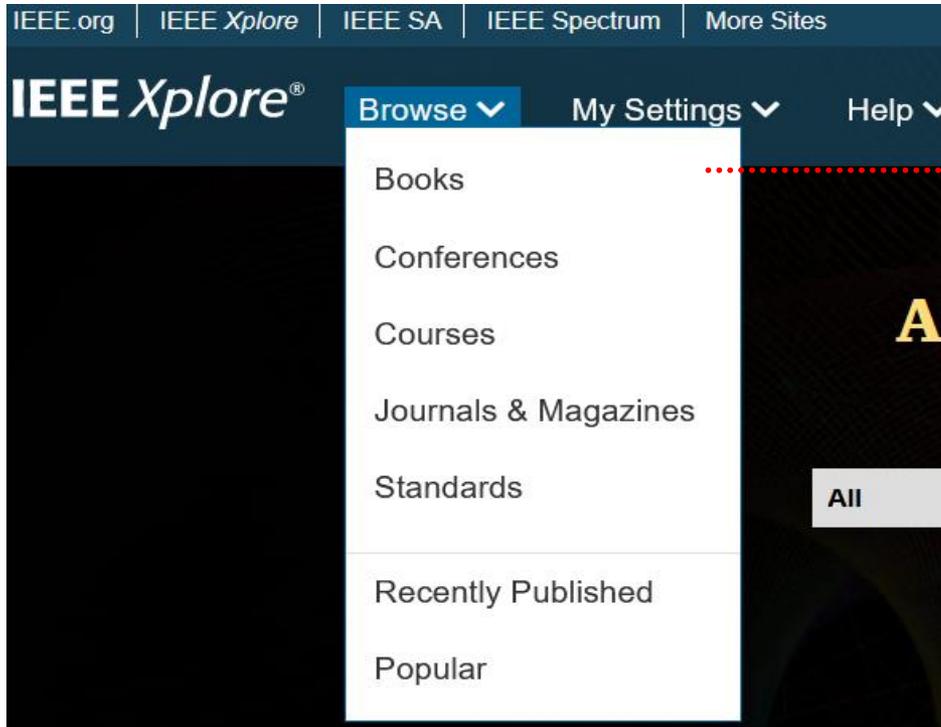
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Walid Saad; Mehdi Bennis; Mingzhe Chen

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

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» Conclusion and Recommendations

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Abstract:

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

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

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Date of Publication: 16 October 2019

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- 1. Artificial Neural Networks-Based Machine Learning for Wireless Networks: A Tutorial
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Short Packets", *Proc. IEEE*, vol. 104, no. 9, pp. 1711-26, Sept. 2016.

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system, compared to its worldwide activities ons ranging from (ject in Finland), the e present a holistic, 450 to more spectrum at ting, underlying services. ying technological trends. Ve then identify the leverages those ely, the intent of this article

58

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常用功能

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

Publisher: **IEEE**

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Walid Saad ; Mehdi Bennis ; Mingzhe Chen [All Authors](#)

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Abstract

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- » 6G: Enabling Technologies
- » 6G: Research Agenda and Open Problems
- » Conclusion and Recommendations

Authors

Abstract:

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

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

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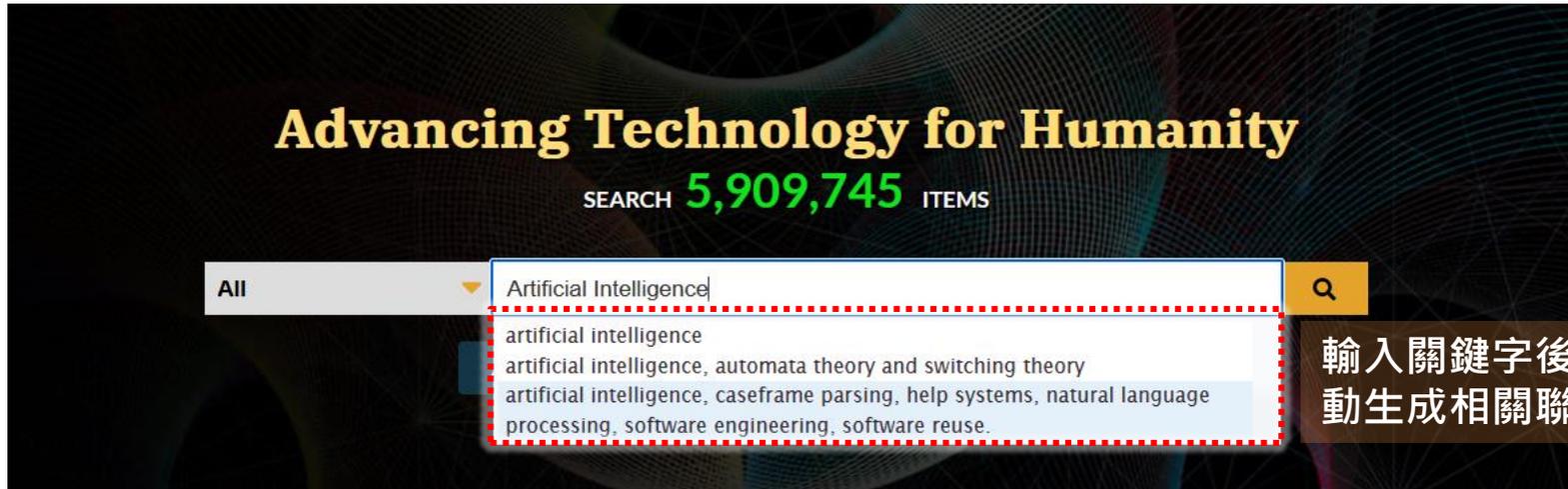
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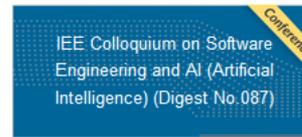
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HAOYU WANG; YONG LIU; ZIFENG HAN; JIANZHANG WU
2020 International Conference on Artificial Intelligence and Education (ICAIE)
Year: 2020 | Conference Paper | Publisher: IEEE
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Arwin Datumaya Wahyudi Sumari; Rosa Andrie Asmara; Dimas Rossiawan Hendra Putra; Ika Noer Syamsiana
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作者檢索與分析

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- Hai Jin (143)
- Albert Y. Zomaya (127)
- Schahram Dustdar (118)
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- Wei Wang (95)
- Bo Li (94)
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A Voting-Mechanism based Ensemble Framework for Constraint Handling Techniques 

Guohua Wu; Xupeng Wen; Ling Wang; Witold Pedrycz; P. N. Suganthan
IEEE Transactions on Evolutionary Computation
Year: 2021 | Early Access Article | Publisher: IEEE

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Media



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Abdulahdi Shoufan
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Open Source RFNoC-Based Testbed for Millimeter-Wave Experimentation using USRP Software Defined Radios

2020 IEEE International Symposium on Circuits and Systems Virtual, October 10-21, 2020

Adriana Moreno *^o, Jesús Omar Lacruz *, Joerg Widmer *

* IMDEA Networks Institute, ^o Universidad Carlos III de Madrid, Spain

2020 IEEE International Symposium on Circuits and Systems Virtual, October 10-21, 2020

The slide also features logos for IMDEA, Universidad Carlos III de Madrid, and Orca. A transcript on the right side of the player shows the following text:

[00:03] JESUS OMAR LACRUZ Hello. I am Jesus Omar Lacruz, IMDEA Networks Institute, Madrid, Spain. I will be in charge of presenting the 2020 International Symposium On Circuits and Systems, entitled "Open source RFNoC-based testbed for millimeter-wave experimentation using USRP software defined radios." A millimeter-wave communication requires suitable platforms to speed up data collection and validation.

[00:38] JESUS OMAR LACRUZ If we list the [INAUDIBLE] testbed, we'll always [INAUDIBLE] flexibility, the configuration to different conditions, and of course, affordability. We can provide solutions for millimeter-wave testbed with different characteristics ideal for different scenarios. Some works use commercial devices as research platforms.

[01:06] JESUS OMAR LACRUZ The main problem is the physical layer information. On the other hand, commercial devices that could be not affordable for all research groups that USRPs has proven efficacy in sub-6-gigahertz networks, millimeter-wave systems will bring the desired flexibility, a wide online open-source community.

[01:35] JESUS OMAR LACRUZ Besides enhancing its full RFNoC framework, [INAUDIBLE] the implementation of software blocks in the FPGA, which is very important to reduce latency in a hardware-in-the-loop manner. Keeping this in mind, we designed and implemented a millimeter-wave experiment using USRPs and 60-gigahertz transceivers. We take advantage of the RFNoC framework to implement the hardware processing blocks in the preamble of IEEE 802.11ad compliant frames in real-time.

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A Novel Mean-Shift Algorithm for Data Clustering
Claude Cariou; Steven Le Moan; Kacem Chehdi
IEEE Access
Year: 2022 | Volume: 10 | Journal Article | Publisher: IEEE

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Robust MeanShift clustering algorithm (Claude Cariou)

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Computer Science **Robust MeanShift clustering algorithm**
Claude Cariou
A data clustering algorithm which mixes the classical Mean-Shift algorithm an its blurring version, and uses a nearest neighbor (NN) search. The only parameter is K, the number of NNs.

Clustering Data Mining meanshift

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Multi-Modal Remote Sensing Image Matching Considering Co-Occurrence Filter

Yongxiang Yao; Yongjun Zhang; Yi Wan; Xinyi Liu; Xiaohu Yan; Jiayuan Li
IEEE Transactions on Image Processing
Year: 2022 | Volume: 31 | Journal Article | Publisher: IEEE

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Citation Author(s): Yongxiang Yao
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ABSTRACT

This CoFSM dataset contains the supplemental material of TIP3157450 (Multimodal remote sensing image datasets). The CoFSM dataset contains six types of modal images (multi temporal-optical, infrared-optical, depth-optical, map-optical, SAR-optical and night-day). Each modal type includes 10 groups of images, and each set of images has corresponding ground truth points. These ground truth data are stored in the "Ground_truth" folder. For more details, see the following URL link: <https://skyearth.org/publication/project/CoFSM/>

Instructions:

Introduction of the CoFSM dataset

This CoFSM dataset contains the supplemental material of TIP3157450 (Multimodal remote sensing image datasets). The CoFSM dataset contains six types of modal images (multi temporal-optical, infrared-optical, depth-optical, map-optical, SAR-optical and night-day). Each modal type includes 10 groups of images, and each set of images has corresponding ground truth points. These ground truth data are stored in the "Ground_truth" folder.

CoFSM dataset of Multimodal remote sensing image

—from "Multi-modal Remote Sensing Image Matching Considering Co-occurrence Filter", to be published in IEEE Transactions on Image Processing.

Dataset introduction:

It contains 6 multi-modal data types:

1-->optical-optical include 10 sets of images;

DATASET FILES

- CoFSM dataset: contains multi-modal images data CoFSM.zip (37.48 MB)

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

Dongrui Wu; Ruimin Peng; Jerry M. Mendel
IEEE Computational Intelligence Magazine
Year: 2023 | Volume: 18, Issue: 1 | Magazine Article | Publisher: IEEE
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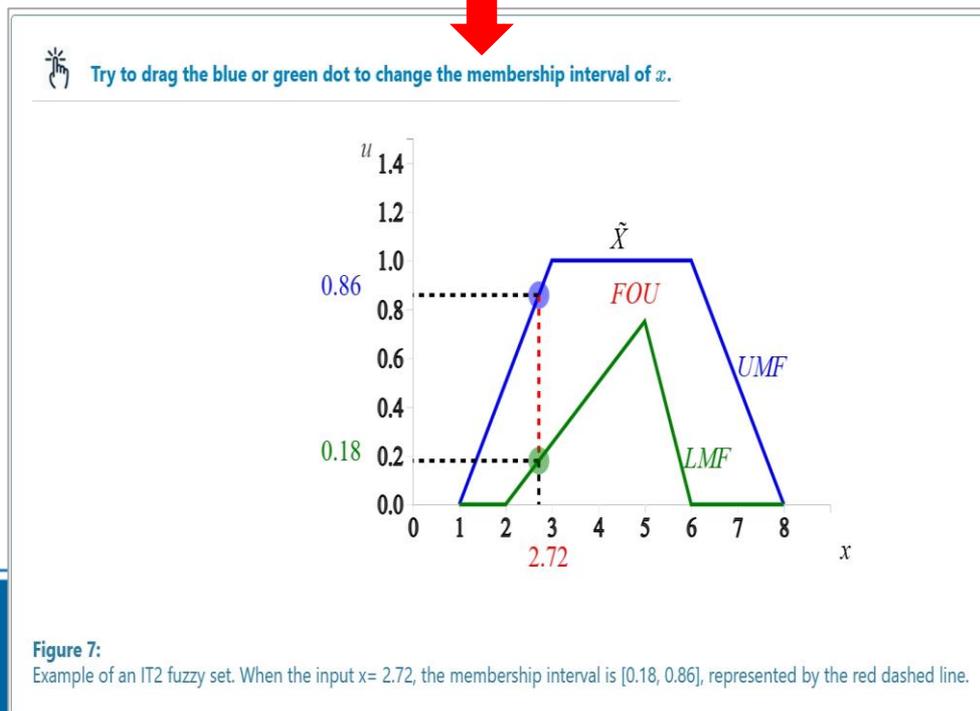


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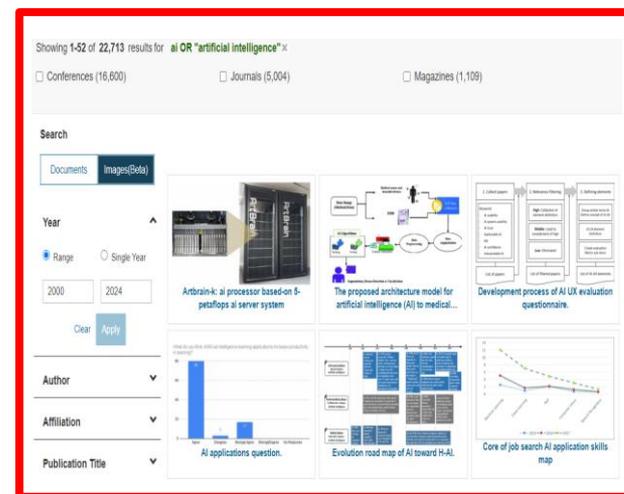


Image Search (Beta)最新上線

Search within results

Showing 1-52 of 41,222 results for **Artificial Intelligence**

Conferences (30,384) Journals (9,811) Magazines (1,027)

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Search Sort By

Year Range Single Year

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Affiliation

Publication Title

Publisher

Keywords

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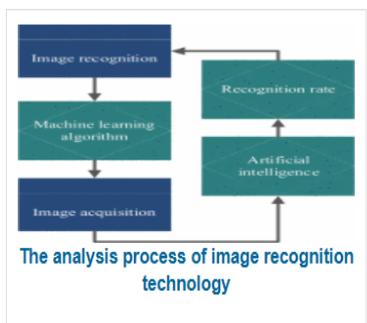
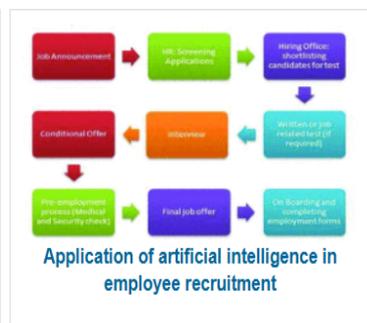
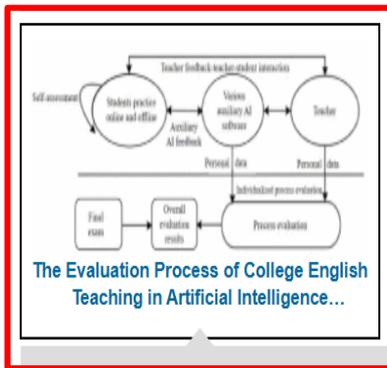
Statistics on the number of articles published on related topics by different publishers

Image acquisition by machine learning algorithms artificial intelligence

A revised Visual Analytics model with a human in the loop method in Artificial

Intelligent Logistics Warehousing and Distribution Path Optimization Diagram

Image Search (Beta)最新上線



Research on College English Teaching Mode Based on Artificial Intelligence

Ma Yuan
2021
©

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

Abstract

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

Show in Context

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 - Publication Title

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

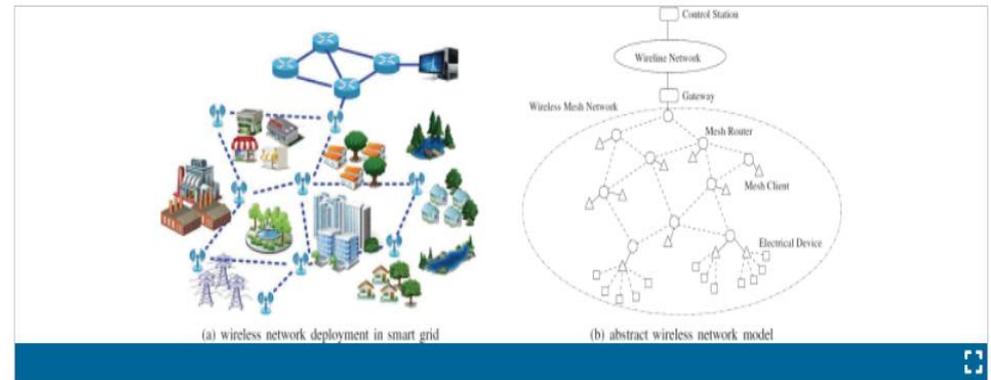


Fig. 1. Wireless mesh network in the smart grid, where a solid line denotes a wireline link and a dash line denotes a wireless link.

進階檢索介紹-關鍵字搜尋

Advanced Search 

Advanced Search | Command Search | Citation Search

Enter keywords and select fields.

Search Term **輸入關鍵字** in All Metadata **欄位設定**

AND Search Term in All Metadata **各欄位說明**

AND Search Term in All Metadata **增加欄位**

Publication Year

Documents Added Between: 03/15/2023 and 03/22/2023

Specify Year Range

1884 2023 **查詢出版年份範圍**

From 1884 To 2023

Reset All Search

進階檢索介紹-指令搜尋

Advanced Search 

輸入關鍵字、詞句搭配布林運算子進行指令搜尋

Advanced Search

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Enter keywords, phrases, or a Boolean expression

Use the drop down lists to choose Data Fields and Operators.

[Learn how to use Boolean expressions in Command Search.](#)

Data Fields



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Search Expression Examples 

```
"Document Title":"renewable energy sources" OR  
"Document Title":"sustainable energy systems"
```

Reset All

Search

進階檢索介紹-引用搜尋

Advanced Search [?](#)

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OR

Publication Title

Volume

Issue

Year

Start Page

End Page

Author Name

Document Title

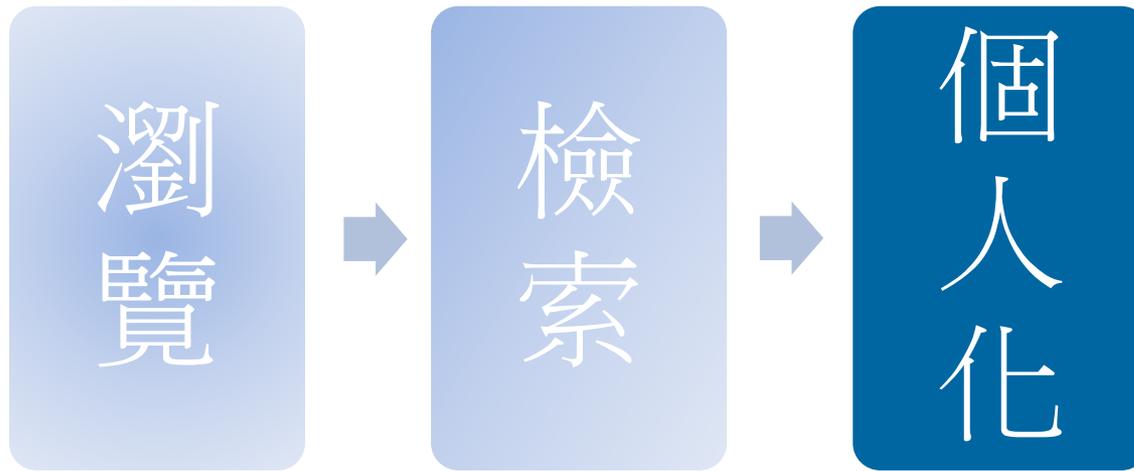
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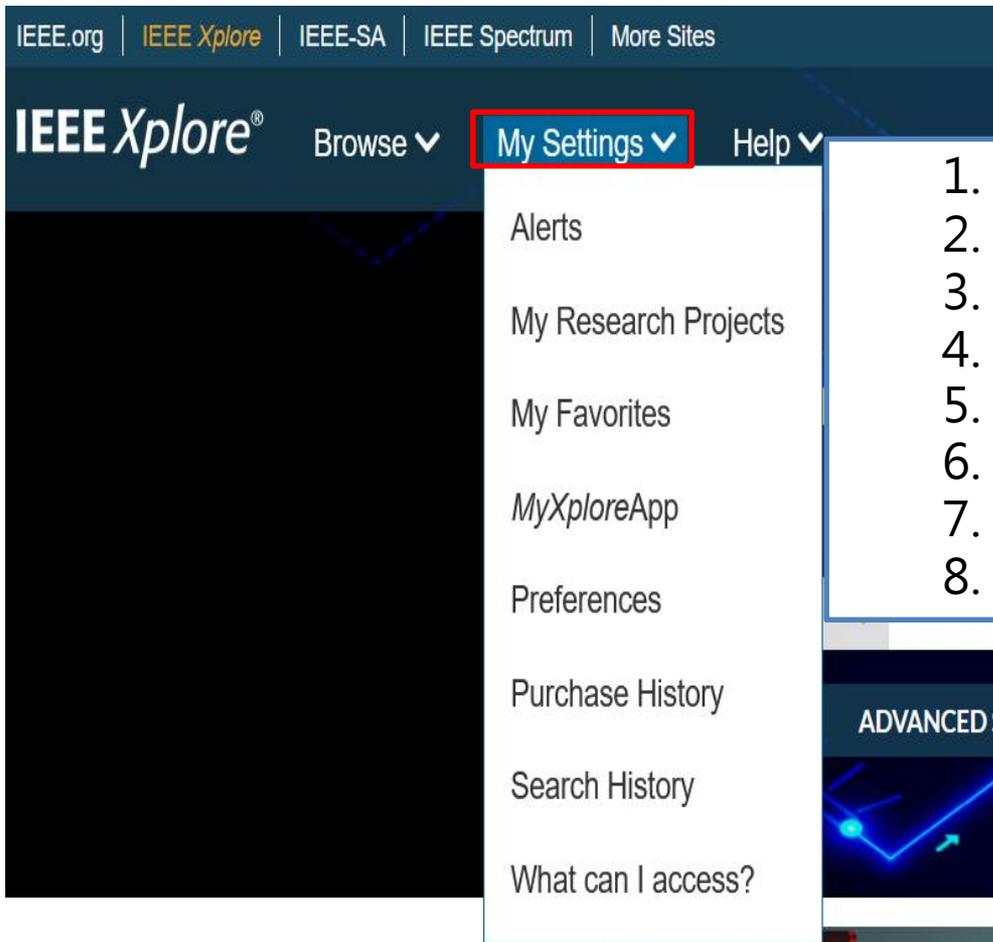
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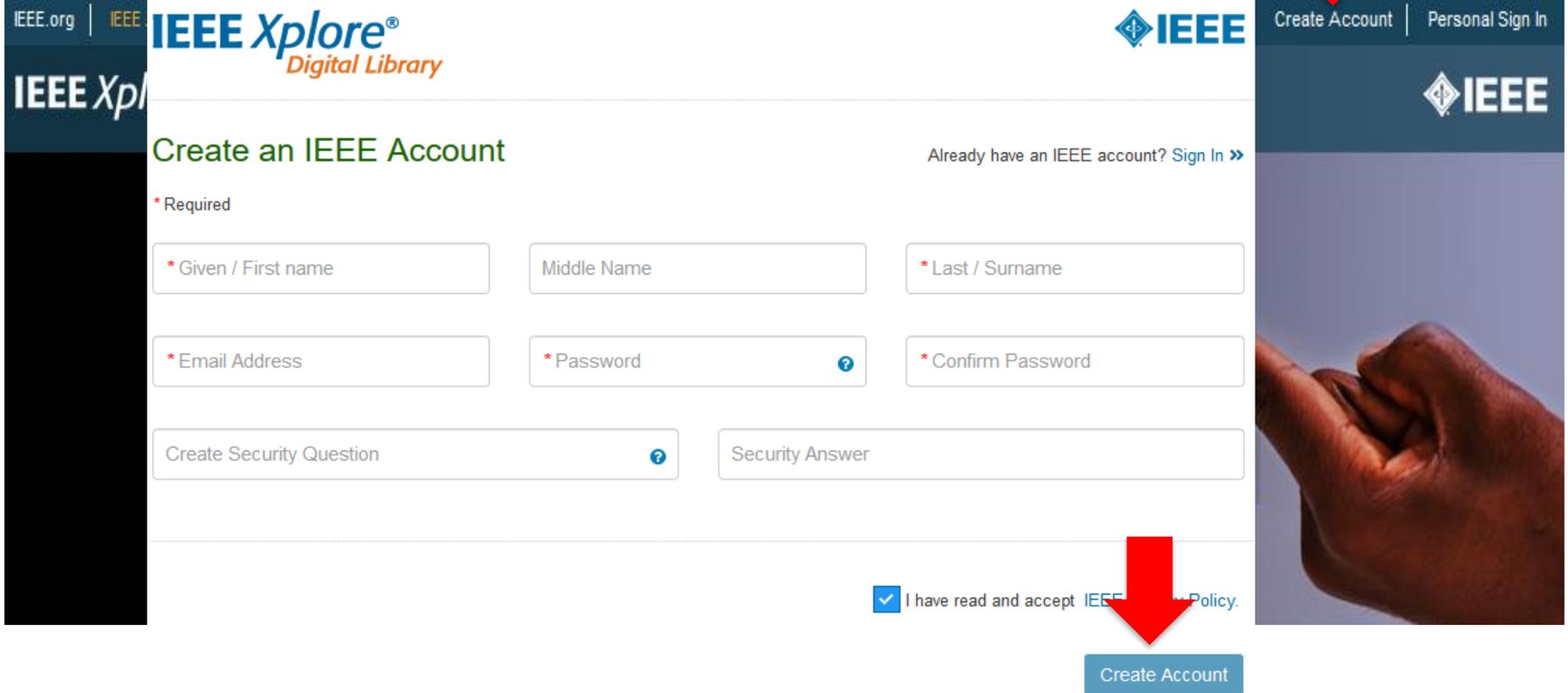


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3. 我的最愛(My Favorites)
4. APP (MyXplore APP)
5. 搜尋偏好 (Preferences)
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You Searched For **((motor control) AND BLDC)**



You refined by **Content Type[Journals & Magazines]:**

設定檢索條件通知(Set Saved Searches)

The screenshot shows the IEEE Xplore search results interface. At the top, there is a search bar with 'Journals & Magazines' selected and 'iot' entered. Below the search bar, there are options for 'Advanced Search' and 'Other Search Options'. The main search area shows 'Search within results' and 'Show: All Results | Per Page: 25 | Export | Set Search Alerts | Search History'. A red dashed box highlights the search filters: 'Displaying results 1-25 of 40 for iot x mobile x phone x' and 'Filters Applied: Journals & Magazines x Early Access Articles x 2017-2018 x'. A callout box labeled '完成檢索條件' (Complete search conditions) points to the filter area. Another callout box labeled '輸入檢索條件的名稱' (Enter the name of the search conditions) points to the 'Set Alert' dialog box. The dialog box has a field for 'Search Alert Name*' and an 'Email Address' field with 'sharon.hsu@hintoninfo.com'. A callout box labeled '建立檢索通知' (Create search notification) points to the dialog box. The search results list includes 'Experimental Characterization of Mobile IoT Application Latency' by Carlos Pereira, António Pinto, Duarte Ferreira, and Ana Aguiar, published in the IEEE Internet of Things Journal in 2017. The page also features a 'Full-Text' banner for IEEE Xplore and an 'IEEE RFIC' banner.

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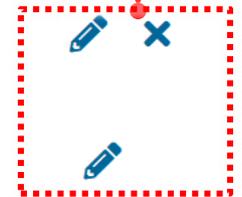
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AI

1 Document(s)

Project Created: Feb 17, 2022

瀏覽Project資訊



存入重要文獻至您的Project

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

Publisher: **IEEE**

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

898

Full

Text Views



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Abstract

Document Sections

I. Introduction

II. Background and Current Limitations

Abstract:

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

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My Xplore APP

The screenshot displays the IEEE Xplore Digital Library interface. At the top, there is a navigation bar with 'Browse', 'My Settings', 'Get Help', and 'Subscribe' options. A search bar is present with the text 'Enter keywords or phrases (Note: Searches metadata only by default. A search for 'smart grid'. Below the search bar, the 'My Saved Items' section is visible, listing a document titled 'Secret Group-Key Generation at Physical Layer for Multi-Antenna Mesh Topology'. A red box highlights this document title in both the main list and a detailed view on the right. A red arrow points from the main list to the detailed view. Another red arrow points from the 'My Settings' menu to the 'MyXploreApp' option. A central text box with a red border contains the Chinese text '瀏覽器與app 同步儲存' (Browser and app sync storage) with a red arrow pointing to the right.

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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

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Search History Recording

On	Off
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Results Layout

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

25

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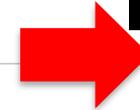
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Search History Recording: **ON**
(Modify settings in your preferences)

Select multiple searches to combine them together.

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

SEARCH HISTORY TIPS

- Only the most recent 50 searches are displayed
- Searches including "NEAR" or "ONEAR" operators cannot be combined
- 50 Keyword limit for combined searches
- 5 Wildcard limit for combined searches
- Search alerts are not available for combined searches

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

論文中使用 AI 生成文字的部分，應在引用來源註明所使用的 AI 系統。

Update

Citations to AI tools should use the **Software** format (IEEE Reference Guide, pp. 16-17)

Format

J. K. Author. *Title of Software*. Date Repository or Archive. (version or year). Publisher Name. Accessed: Date (when applicable). [Type of Medium]. Global Persistent Identifier. Available: site/path/file

Example

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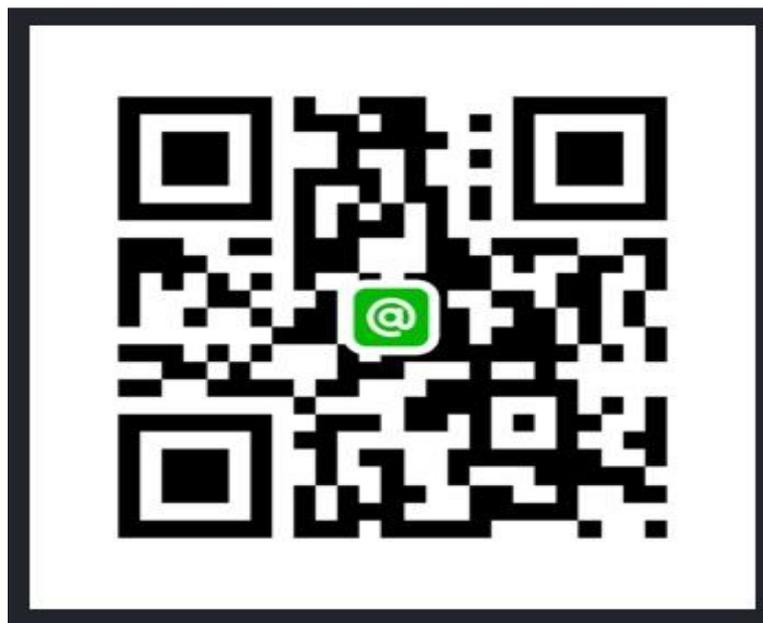
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