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- 3) 個人化設定



IEEE學會介紹



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

電機電子工程師學會

IEEE 簡介

- 非營利組織，全球最大的技術學會之一，成員遍佈160多個國家地區，會員超過42萬人
- 核心運作方式：
IEEE會員、舉辦研討會、制定標準、出版期刊、會議論文、標準、電子書及線上課程
- IEEE Xplore 資料庫涵蓋：
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 - 超過500萬的用戶

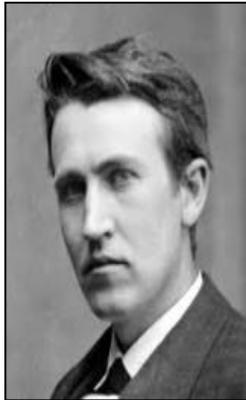


IEEE 能源領域學者 RazanGafbin 在薩爾瓦多從事淨水專案

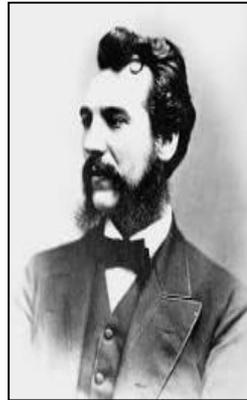


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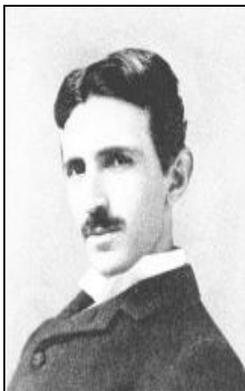
IEEE 的起源



Thomas Edison



Alexander Graham Bell



Nikola Tesla

Landmark exhibition at Franklin Inst. in Philadelphia, the American Institute of Electrical Engineers held its first conference on 7–8 Oct. 1884. This was the first formal technical conference on electrical engineering held in the U.S.



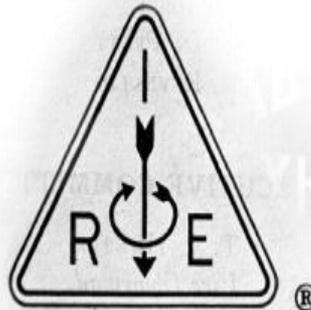
IEEE 學會組織演進

1884 1912 1963 Present



AIEE
American Institute
of Electrical Engineers

Thomas Edison,
Alexander Graham Bell,
and other notables
founded the **American
Institute of Electrical
Engineers.**



IRE
Institute of Radio
Engineers

Pioneers of wireless technologies
and electronics founded the more
internationally focused
Institute of Radio Engineers.



AIEE and IRE merged to become the Institute of
Electrical and Electronics Engineers, or **IEEE.**

當今科技領域頂尖學者的卓越成就 皆仰賴IEEE文獻



IEEE 榮譽徽章獲獎者：

2016

G. David Forney, Jr.

戴夫·福尼

主要以對電信系統論，特別是編碼理論和資訊理論的研究而知名。



2017

Kees Schouhamer Immink

基斯·伊明克

開創了數字音頻，視頻和數據記錄的時代，包括CD, DVD和Blu-ray Disc等儲存媒體。



2018

Bradford W. Parkinson

布拉德福德·帕金森
GPS全球定位系統的研究先驅



2019

Kurt E. Petersen

庫特·彼德森

美國國家工程院的成員。他主要因其在微機電系統上的工作而聞名。



- 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



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Journal Citation Reports[®] by Impact Factor

IEEE publishes:

- **27 of the top 30** journals in **Electrical and Electronic Engineering**
- **21 of the top 25** journals in **Telecommunications**
- **7 of the top 10** journals in **Artificial Intelligence**
- **8 of the top 10** journals in **Automation & Control Systems**
- **4 of the top 5** journals in **Computer Science, Information Systems**
- **7 of the top 10** journals in **Computer Science, Hardware & Architecture**
- **3 of the top 5** journals in **Computer Science, Cybernetics**
- **3 of the top 5** journals in **Imaging Science & Photographic Technology**
- **3 of the top 5** journals in **Transportation Science & Technology**

Source: 2019 Journal Citation Reports (Clarivate Analytics, 2020)

Each year, the Journal Citation Reports[®] (JCR) from Web of Science Group examines the influence and impact of scholarly research journals. JCR reveals the relationship between citing and cited journals, offering a systematic, objective means to evaluate the world's leading journals.

IEEE 文獻在各領域影響甚鉅

Journal Citation Reports® by Impact Factor

IEEE journals are:

- **# 1** in Artificial Intelligence
- **# 1** in Automation and Control Systems
- **# 1** in Cybernetics
- **# 1** in Hardware & Architecture
- **# 1** in Imaging Science & Photographic Technology
- **# 1** in Information Systems
- **# 1** in Instruments and Instrumentation
- **# 1** in Medical Informatics
- **# 1** in Remote Sensing
- **# 1** in Telecommunications
- **# 2** in Electrical & Electronic Engineering

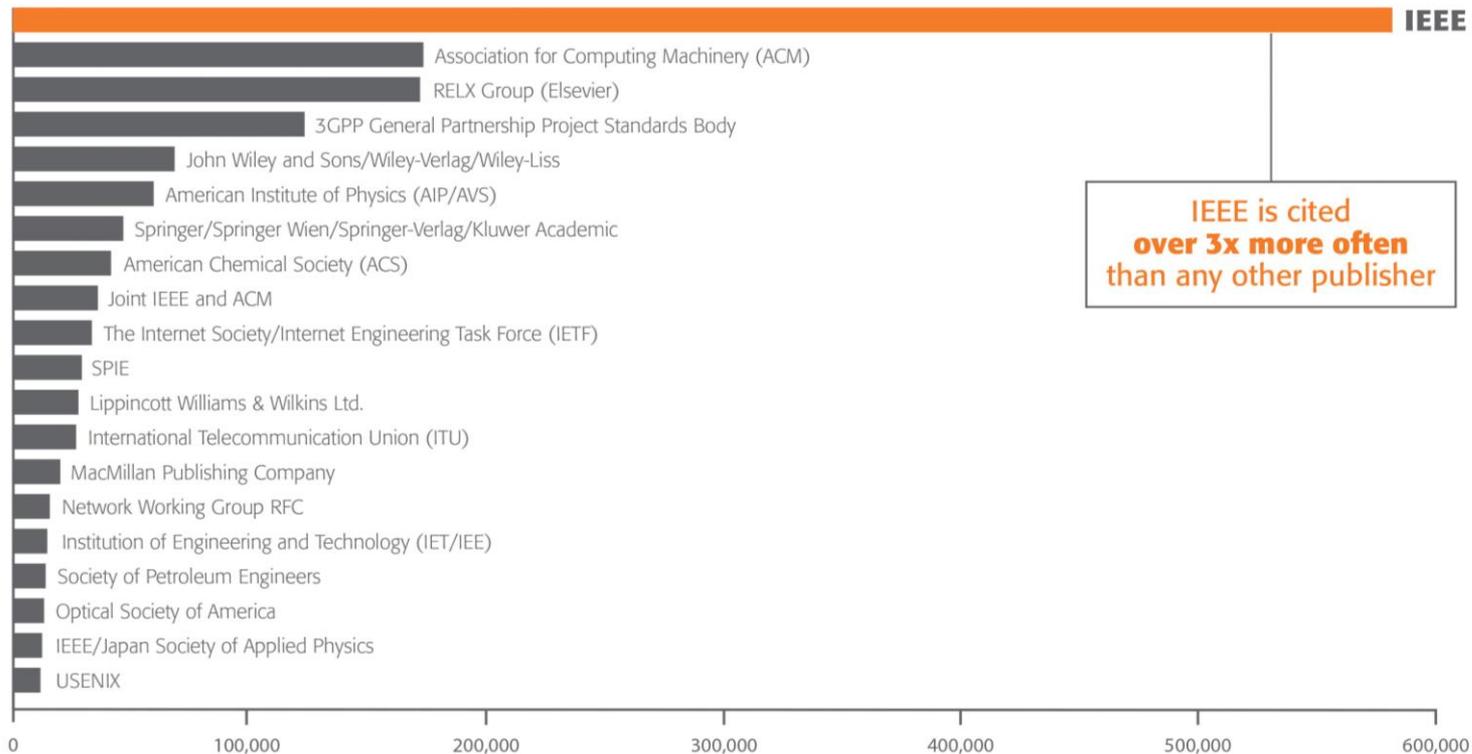


Source: 2019 Journal Citation Reports (Clarivate Analytics, 2020)

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

IEEE 在人工智慧、自動駕駛汽車和物聯網 相關專利中穩居領導地位

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



Source: 1790 Analytics LLC, Copyright 2020

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- 亦可查看其他相關學會出版的文獻全文，包括:IET會議論文、Bell Lab 技術期刊及VDE會議論文。

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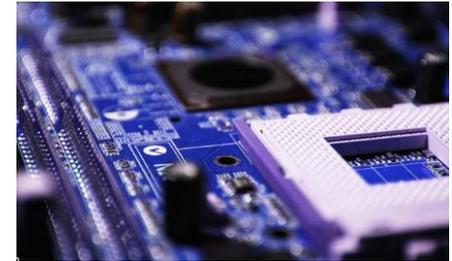
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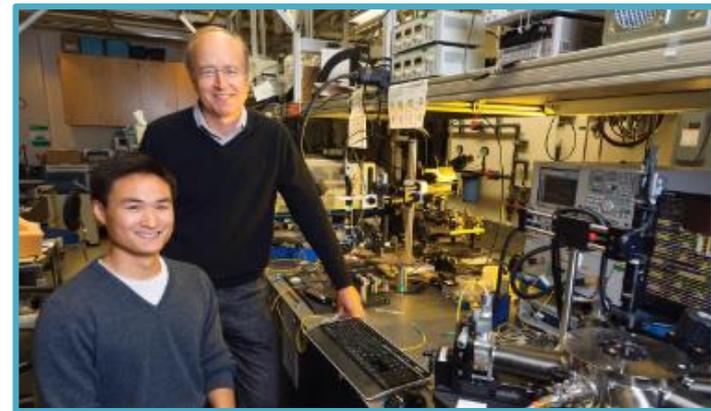
- IEEE Journal of Emerging and Selected Topics in **Industrial Electronics**
- IEEE Journal on Selected Areas in **Information Theory**
- IEEE Transactions on **Technology and Society**
- IEEE Transactions on **Artificial Intelligence**
- IEEE BITS the **Information Theory Magazine**

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



不間斷的線上學術研討交流

- 大多數 IEEE 會議以新的虛擬方式持續舉辦，許多會議都創下了出席人數的紀錄，並獲得廣大迴響。
- 例如: 2020年5月舉辦的CLEO會議
 - 有來自75個國家，近 20,000 名參與者
 - 超過 1,800 篇科學文獻 (較以往增長20%)
 - 這些文獻如今都可以在IEE Xplore查找全文



IEEE持續帶動全球科技脈動

- 通過主題演講、會議、研討會以及虛擬學習和討論，該活動成為一項強而有力的論壇，能夠以全球視野推動電腦視覺、AI 和機器學習的理解、應用和進步。
- 例如: 2020年6月舉辦的CVPR會議
 - 有來自全球各地近**7,600**名參與者
 - 超過 **1,470** 篇科學文獻 (較以往增長13%)
 - 這些文獻如今都可以在IEE Xplore查找全文
 - 微軟首席執行官薩蒂亞•納德拉 (Satya Nadella) 演示了用於安全治療英國COVID-19患者的霍洛倫斯技術



IEEE 會議引領專家學者持續在新興技術上不斷突破

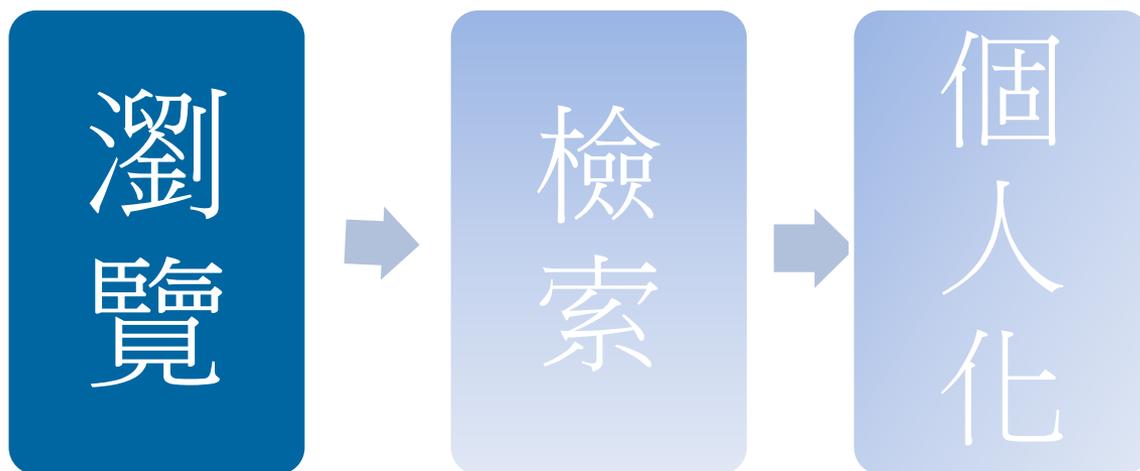
以下是 2020 年發佈的一些與創新技術有關的學術研討會：

- IEEE Int'l Conf on Blockchain and Cryptocurrency (ICBC)
- 2020 Conf on Data Science and Machine Learning Applications
- World Symposium on Artificial Intelligence (WSAI)
- Int'l Conf on Artificial Intelligence and Big Data (ICAIBD)
- Int'l Conf on Connected and Autonomous Driving
- 2020 Global Internet of Things Summit (GloTS)
- IEEE Int'l Conf on Cyber Security and Cloud Computing
- IEEE Int'l Conf on Power Electronics, Smart Grid, and Renewable Energy
- Int'l Conf on Renewable Energies for Developing Countries
- Conf on Innovation in Clouds, Internet and Networks, and Workshops (ICIN)
- 2020 Int'l Conf on Ubiquitous Robots (UR)
- 2020 3rd Int'l Conf on Engineering: Machine Learning and Internet of Things



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

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顯示學校英文名稱

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瀏覽功能:

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A banner with a red and white virus-like image on the left. The text reads: 'Free to Access Now: COVID-19 Related Research in IEEE Xplore.' with a 'SEE ARTICLES >' button on the right.

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- 進階檢索
- 檢索熱門文獻

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(ROCHESTER, NY, USA)

A Survey of Healthcare Internet of Things (HIoT): A Clinical Perspective

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						 Theodore S. Rappaport  
						 Kevin Wang  

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1 Sep 2019



Unlocking IoT Data with 5G and AI

26 June 2019

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2 Oct 2019

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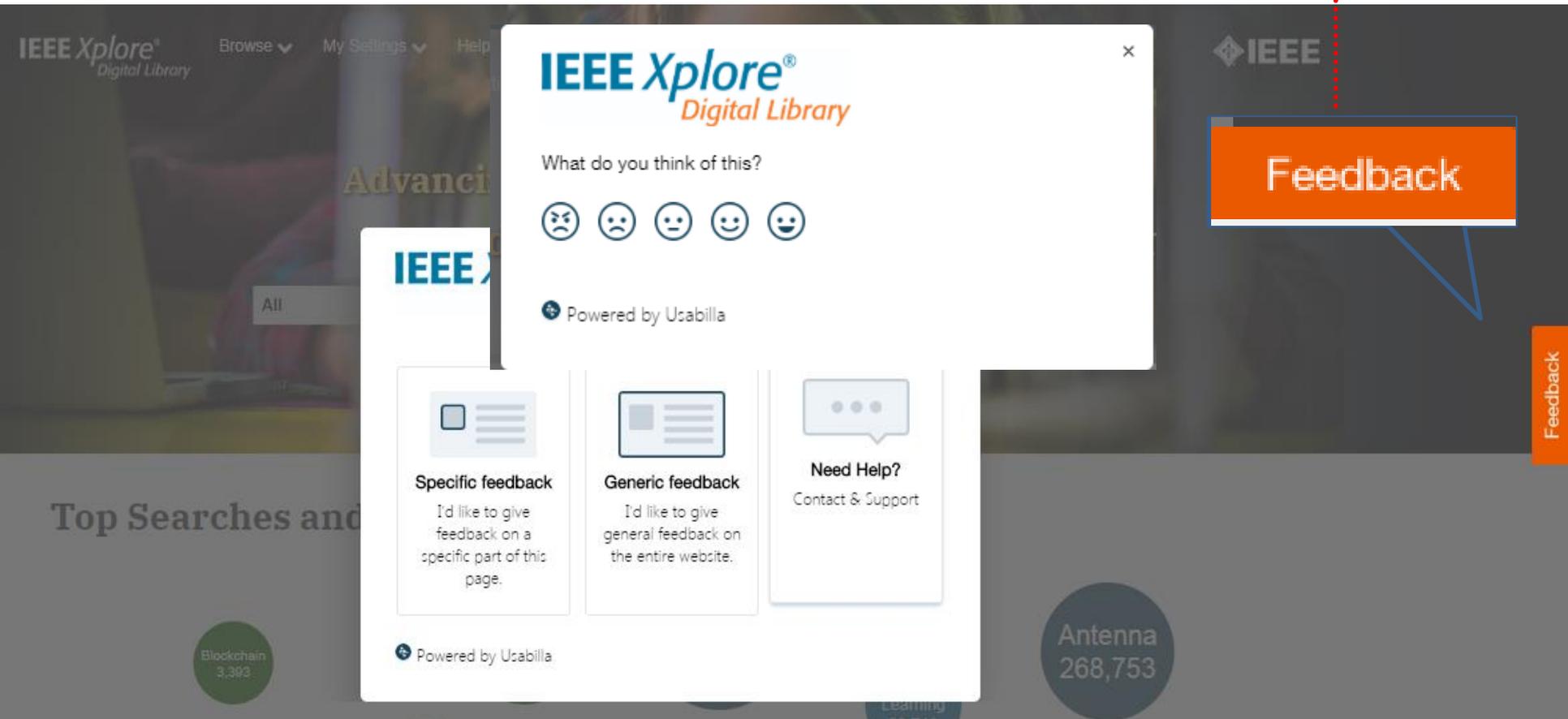
IEEE 即將舉辦之研討會

Upcoming Conferences

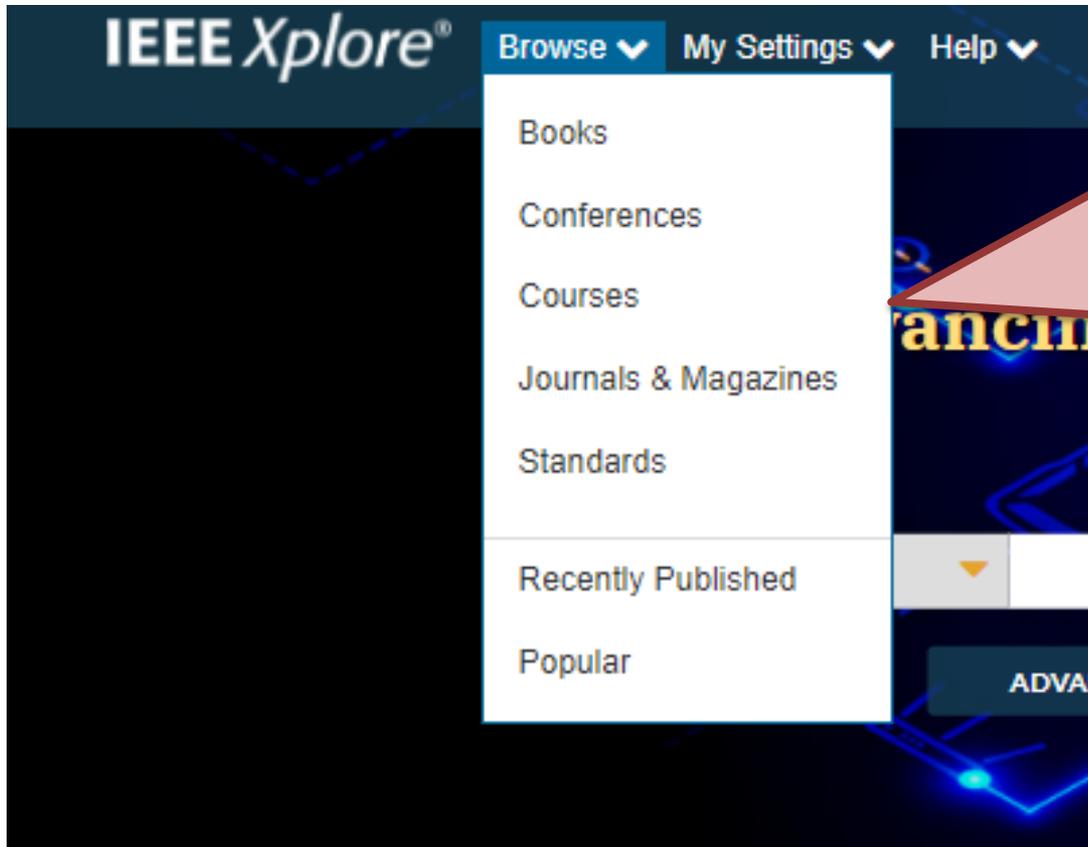
11 DE C	2019 IEEE 58th Conference on Decision and Control (CDC)	REGISTER	11-13 DECEMBER 2019 NICE, FRANCE	🔗
18 JA N	IEEE International Conference on Micro Electro Mechanical Systems	REGISTER	18-22 JANUARY 2020 VANCOUVER, BRITISH COLUMBIA, CANADA	🔗
8 M AR	2020 Optical Fiber Communications Conference and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

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2019

IEEE Access

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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

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

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Year

Single Year | Range

1987 2019

From 1987 To 2019

Publisher

- IEEE (12)
- IET (1)
- OUP (1)

Topic

- Communication, Networking & Broadcasting (12)
- Computing & Processing (7)

IEEE 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

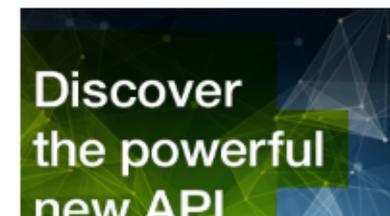
IEEE Transactions on Control of Network Systems

Publisher: IEEE Years: 2014 - Present Most Recent Issue

IEEE Transactions on Green Communications and Networking

Publisher: IEEE Years: 2017 - Present Most Recent Issue

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7.197 Impact Factor **0.0091 Eigenfactor** **2.096 Article Influence Score**

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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. [View Full Aims & Scope](#)

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InterDigital, USA

Aims & Scope

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ISSN : 0890-8044

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Date

April 2019 

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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 [\(html\)](#)  (221 Kb) 

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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 [\(html\)](#)  (270 Kb) 

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期刊瀏覽-單篇文獻介紹

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

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

Publisher: IEEE

Cite This

PDF

文章標題

Walid Saad ; Mehdi Bennis ; Mingzhe Chen

引文格式

174
Paper
Citations

7476
Full
Text Views



Abstract

Document Sections

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

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

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Walid Saad ; Mehdi Bennis ; Mingzhe Chen

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Abstract

Document Sections

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

Abstract:
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A Vision of 6G Wireless Systems: Applications, Trends, Technologies, and Open Research Problems 1 / 9

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

Walid Saad, Mehdi Bennis, and Mingzhe Chen

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

realized. One can argue that the evolutionary path of 5G (i.e., supporting rate-hungry eMBB services) has gained significant momentum. However, the promised revolutionary outlook of 5G, a system operating almost exclusively at high-frequency millimeter wave (mmWave) frequencies and enabling heterogeneous IoT services, has thus far remained a mirage. Although the 5G systems that are currently being marketed will readily support basic IoT and URLLC services (e.g., factory automation), it is debatable whether they can deliver tomorrow's smart city IoT applications. Moreover, although 5G will eventually support fixed-access at mmWave frequencies, it is more likely that early 5G rollouts will still use sub-6 GHz for supporting mobility.

Meanwhile, an unprecedented proliferation of new IoT services is ongoing. Examples range from extended reality (XR) services (encompassing augmented, mixed, and virtual reality (AR/MR/VR)) to telemedicine, haptics, flying vehicles, brain-computer interfaces, and connected autonomous systems. These applications will disrupt the original 5G goal of supporting short-packet, sensing-based URLLC services. To successfully operate IoT services such as AR and connected autonomous systems, a wireless system must simultaneously deliver high reliability, low latency, and high data rates, for heterogeneous devices.

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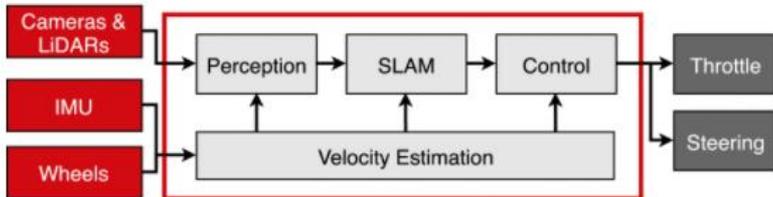


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Top: pilatus driverless, the formula student race car used for testing. ©FSG - Zenker. Bottom: Simplified software architecture of pilatus driverless race car showing the central role of velocity estimation.

datasets across their infrastructure to enhance network functions and provide new services. This trend motivates new machine learning techniques that go beyond classical big data analytics.

Trend 5 – From Self-Organizing Networks (SON) to Self-Sustaining Networks

SON has only been scarcely integrated into 4G/5G networks due to a lack of real-world need. However, CRAS and DLT technologies motivate an immediate need for intelligent SON to manage network operations, resources, and optimization. 6G will require a paradigm shift from classical SON, whereby the network merely adapts its functions to specific environment states, into a *self-sustaining network (SSN)* that can maintain its key performance indicators (KPIs), *in perpetuity*, under highly dynamic and complex environments stemming from the rich 6G application domains. SSNs must be able to not only adapt their functions but to also sustain their resource usage and management (e.g., by harvesting energy and energy storage), and to manage their own KPIs. SSN functions must be powered 6G SSNs.

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Trend 6 – Convergence of Communications and Sensing (3CLS)

The past five generations of cellular systems had one exclusive function: wireless communications. However, 6G will disrupt this premise through a convergence (i.e., joint and simultaneous offering) of various functions that include communications, computing [5], control, localization, and sensing. We envision 6G as a multi-purpose system that can

5. Y. Li et al., "Joint Optimization of Radio and Virtual Machine Resources with Uncertain User Demands in Mobile Cloud Computing", *IEEE Trans. Multimedia*, vol. 20, no. 9, pp. 2427-38, Sept. 2018.

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Table 1. Requirements of 5G vs. 6G



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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.

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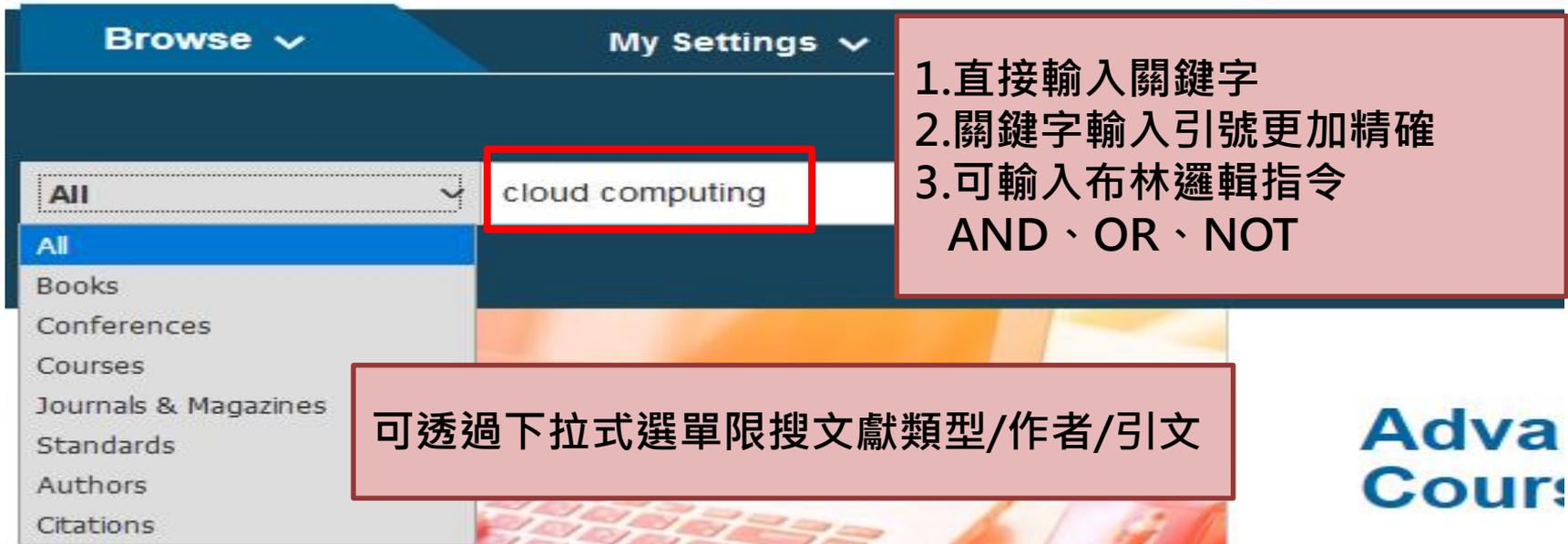
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C-Cloud: A Cost-Efficient Reliable **Cloud of Surplus Computing** Resources
Partha Dutta ; Tridib Mukherjee ; Vinay Gangadhar Hegde ; Sujit Gujar
2014 IEEE 7th International Conference on Cloud Computing

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)

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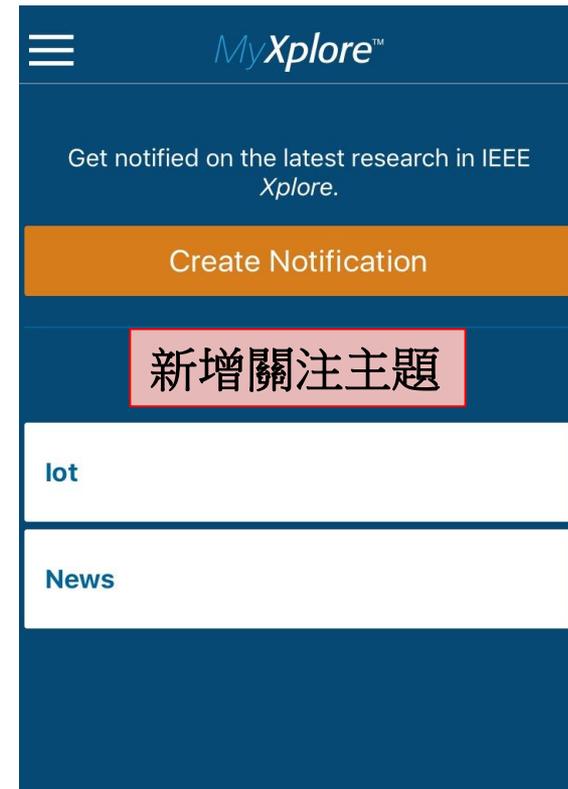
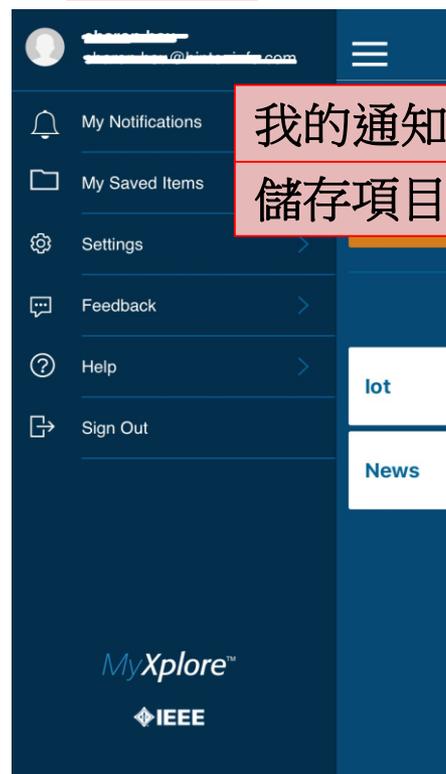
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AUTHOR(S)
Jinho Choi

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IEEE Transactions on Information Forensics and Security
15 Jun 2018

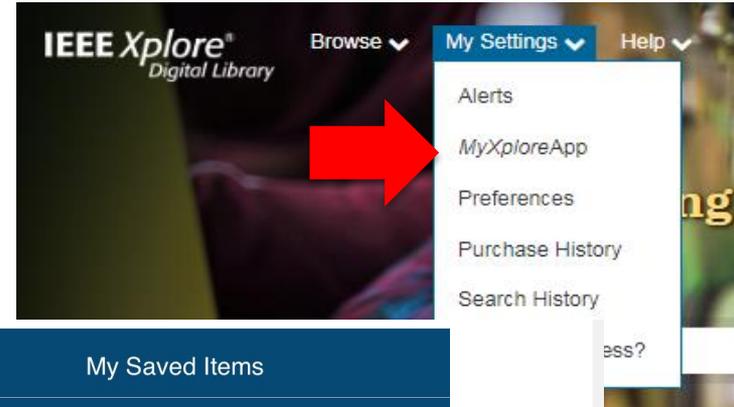
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We propose a physical-layer challenge-response authentication approach in this paper based on combined shared secret key and channel state information between two legitimate nodes in an orthogonal frequency division multiplexing system. The proposed 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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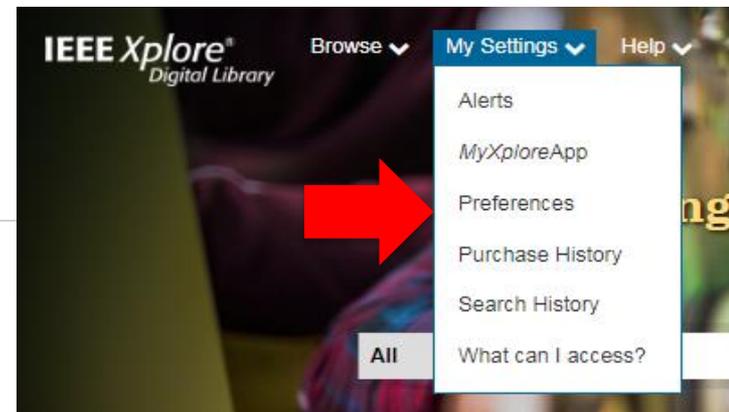
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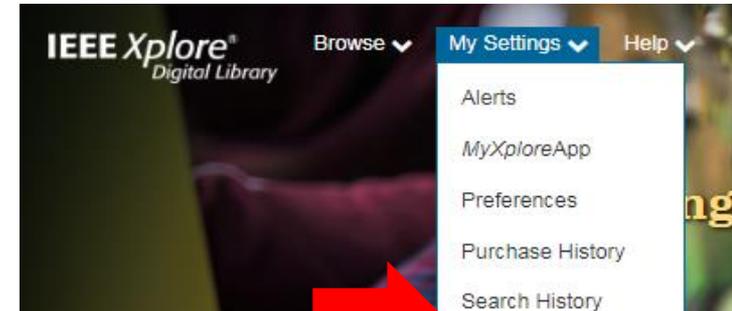
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