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IEEE

IEEE學會介紹

The Institute of Electrical and Electronics Engineers

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
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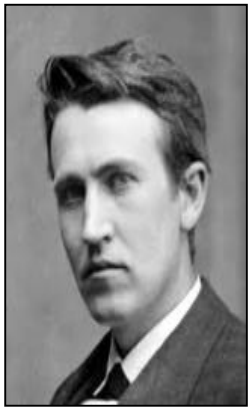
IEEE 能源領域學者 RazanGafbin 在薩爾瓦多從事淨水專案

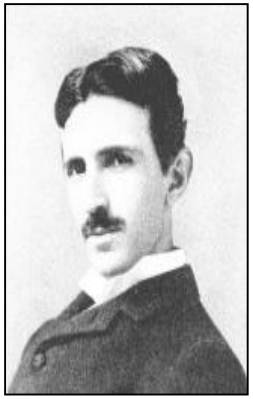
IEEE智慧村計劃幫助撒哈拉以南的非洲村莊

IEEE 的起源



Thomas Edison

Alexander Graham Bell



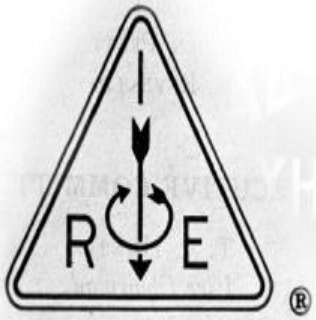
Nikola Tesla

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



IRE
Institute of Radio
Engineers

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

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

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

IEEE

當今科技領域頂尖學者的卓越成就皆仰賴IEEE文獻

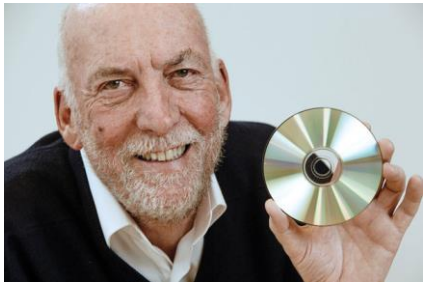
IEEE 榮譽徽章獲獎者：

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。

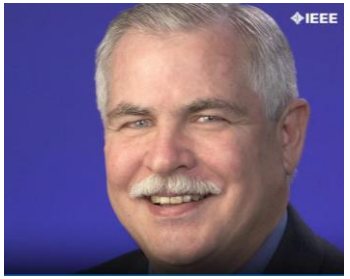


2018

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。



39個專業分會

IEEE Societies

- 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 S
- IEEE Dielectri
- IEEE Educatic
- IEEE Electron
- IEEE Electron
- IEEE Electron
- IEEE Engineer
  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

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
- Communications
- Computer Software
- Electronics
- Energy
- Engineering
- Imaging
- Information Technology
- Medical Devices
- Nanotechnology
- Optics
- Petroleum & Gas
- Power Electronics
- Power Systems
- Robotics & Automation
- Semiconductors
- Smart Grid
- Wireless Broadband

and many more

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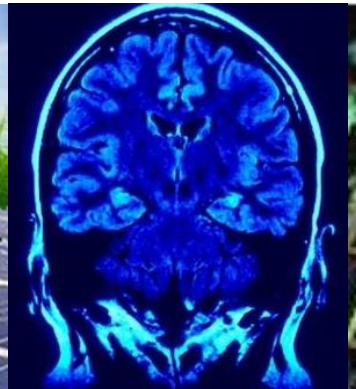
佔全世界 1/3 的文獻








期刊引用率以IEEE文獻佔比最多

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.

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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.

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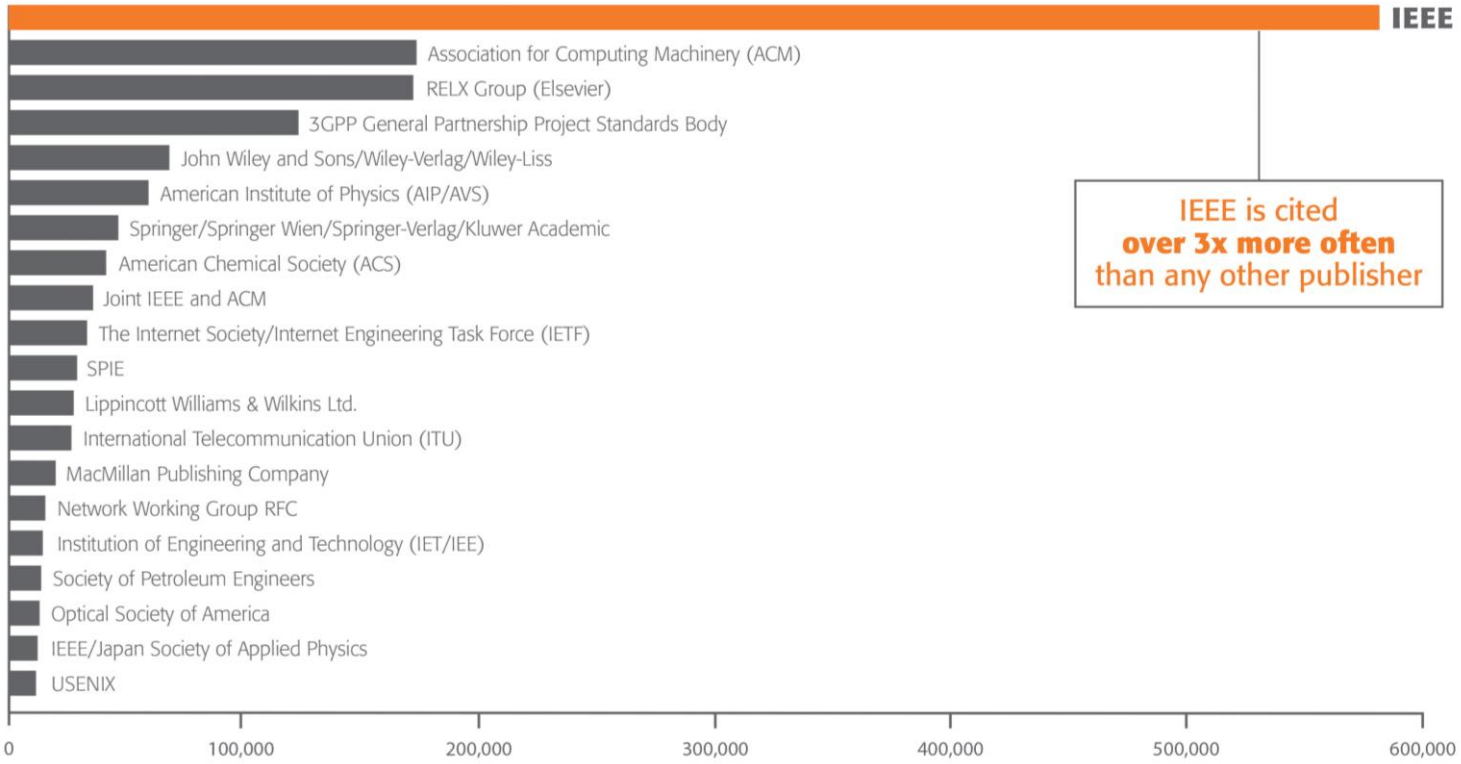
IEEE 在人工智慧、自動駕駛汽車和物聯網相關專利中穩居領導地位

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



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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。

合作的出版單位有:

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Alcatel·Lucent Bell Labs

IET The Institution of Engineering and Technology

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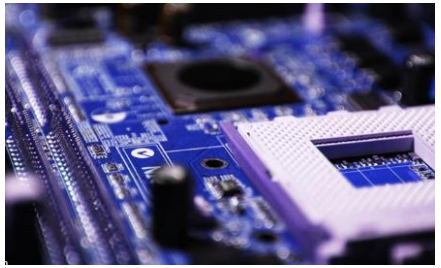
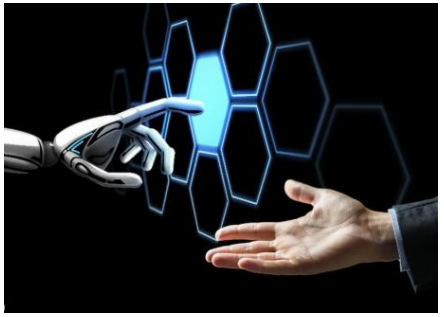
2020及2021年計劃出版的新期刊

- 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**



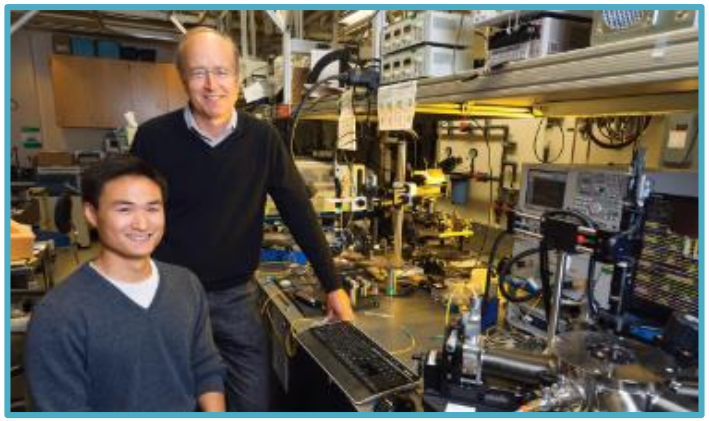


*Please note this is a tentative list and is subject to change.

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

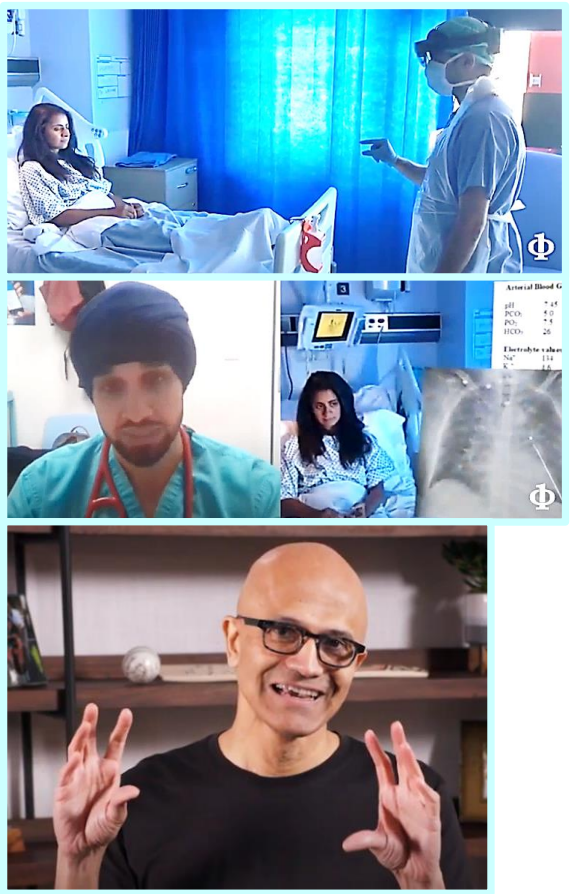
CLEO
Laser Science to Photonic Applications



IEEE

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 (GIoTS)
- 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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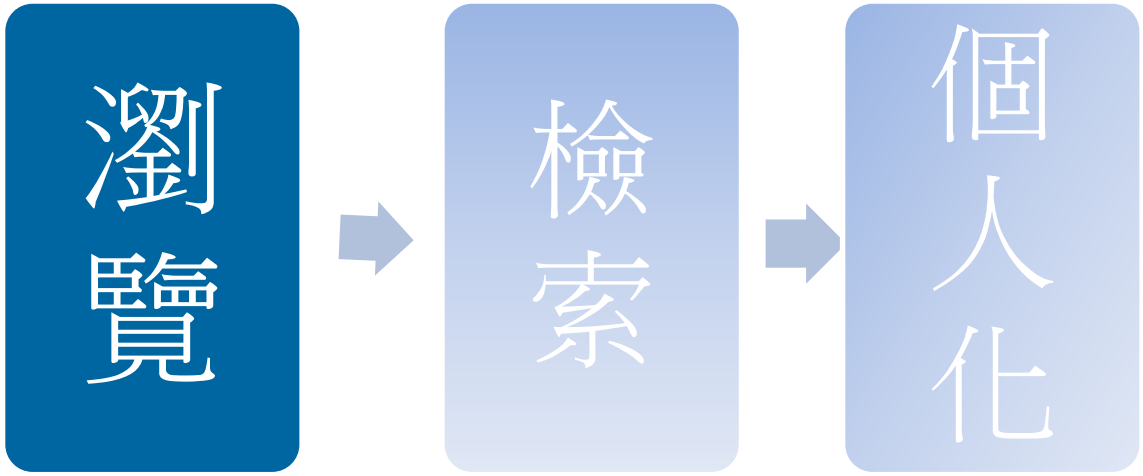

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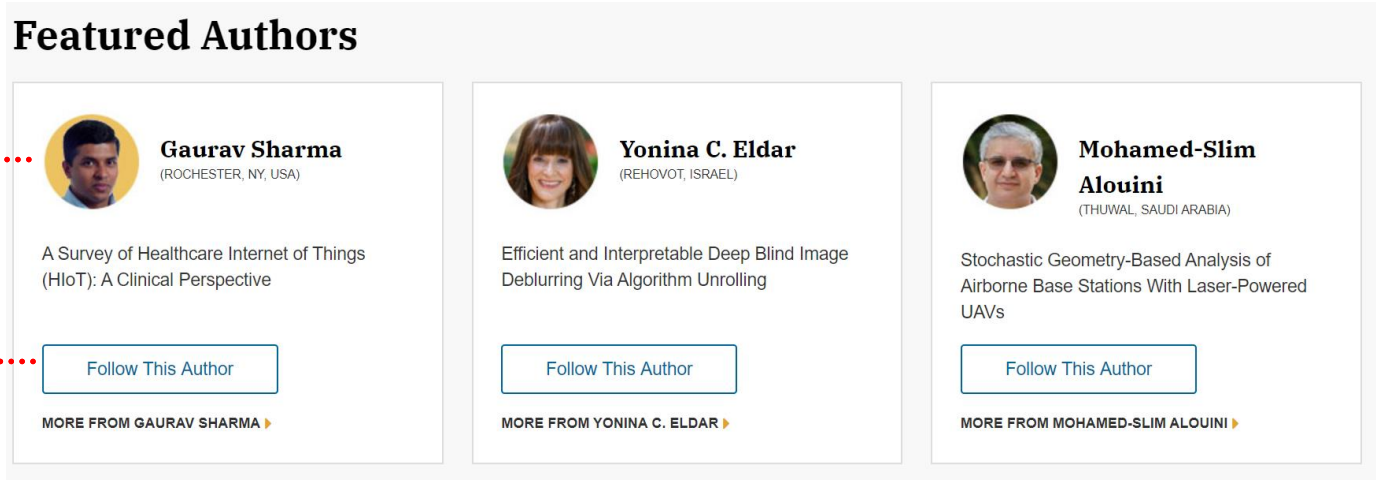

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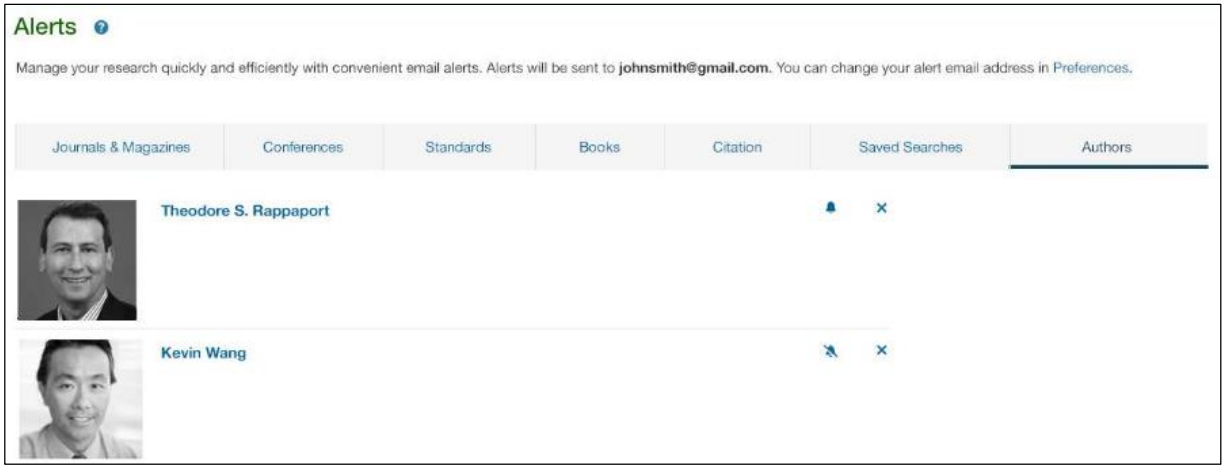

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26 June 2019

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2 Oct 2019

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Upcoming Conferences

11 DEC	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

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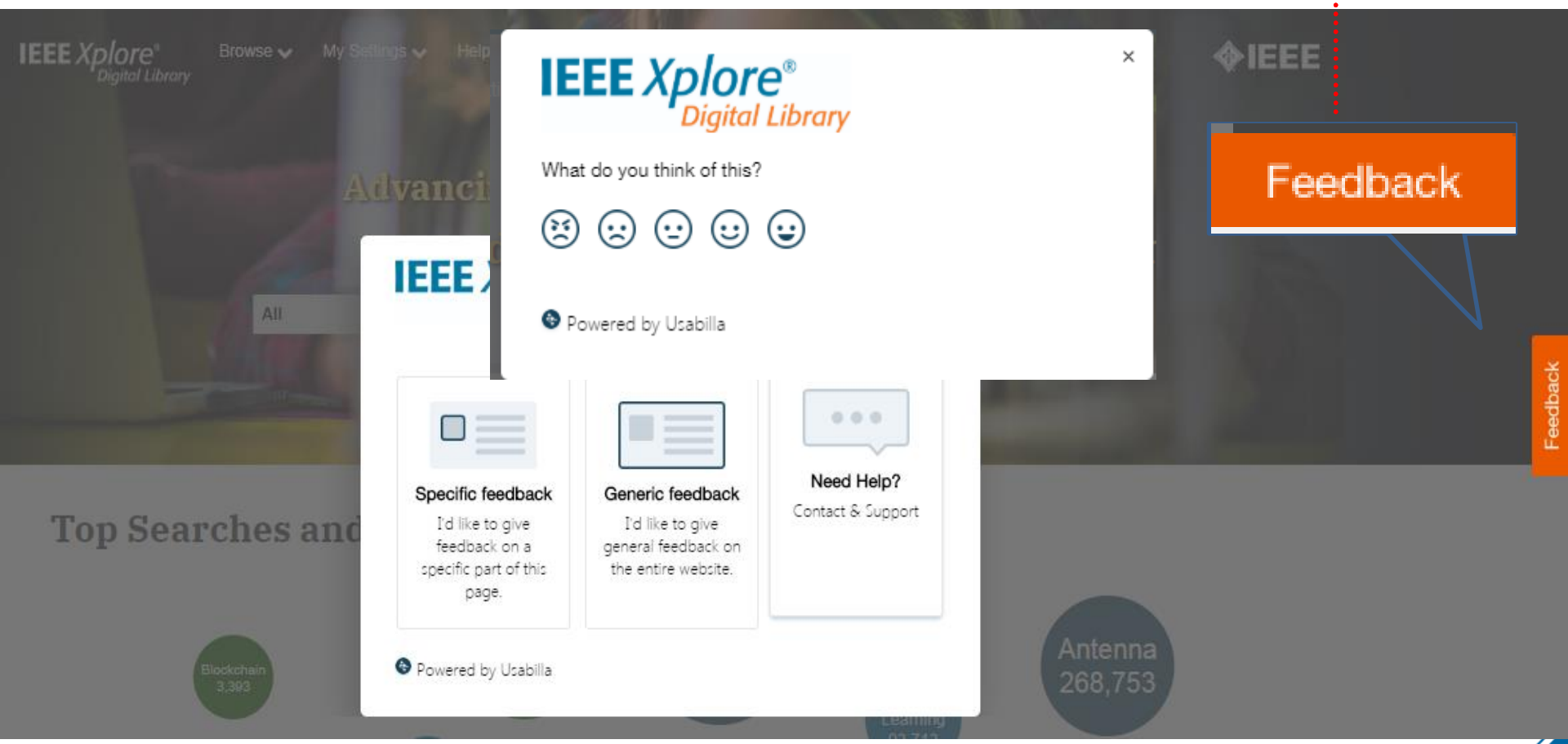

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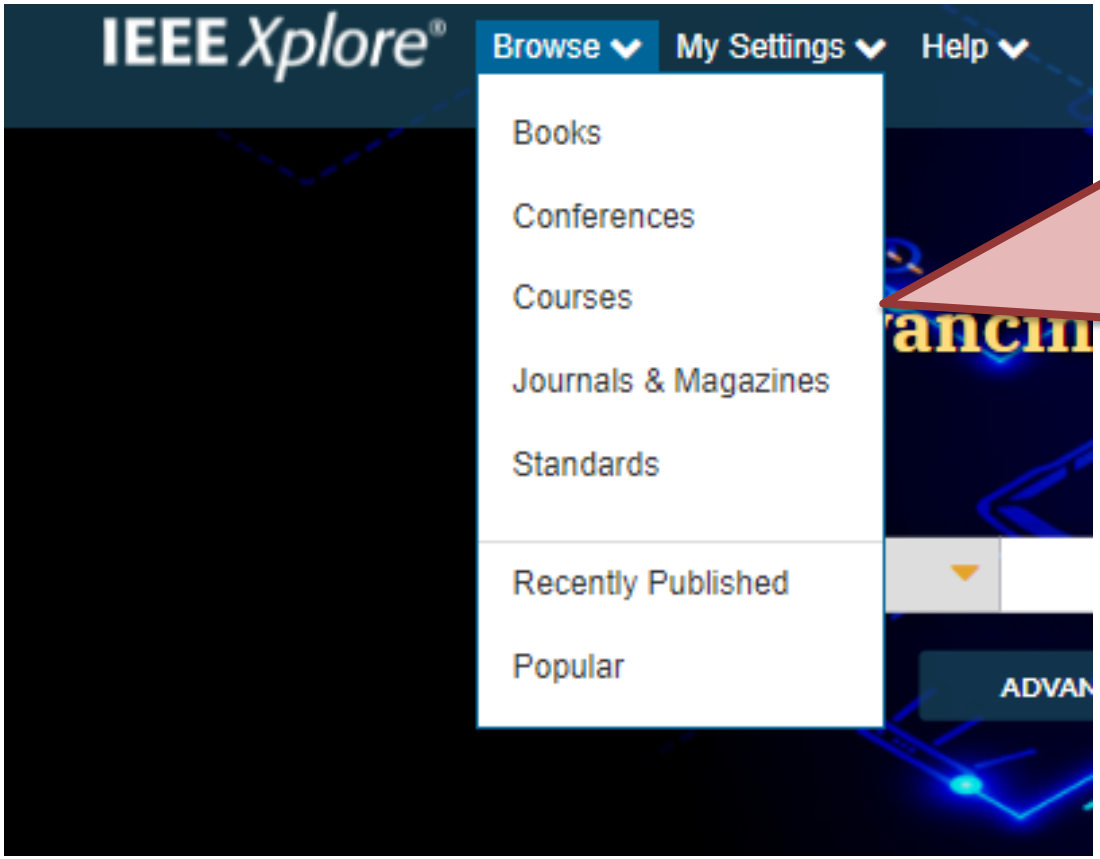

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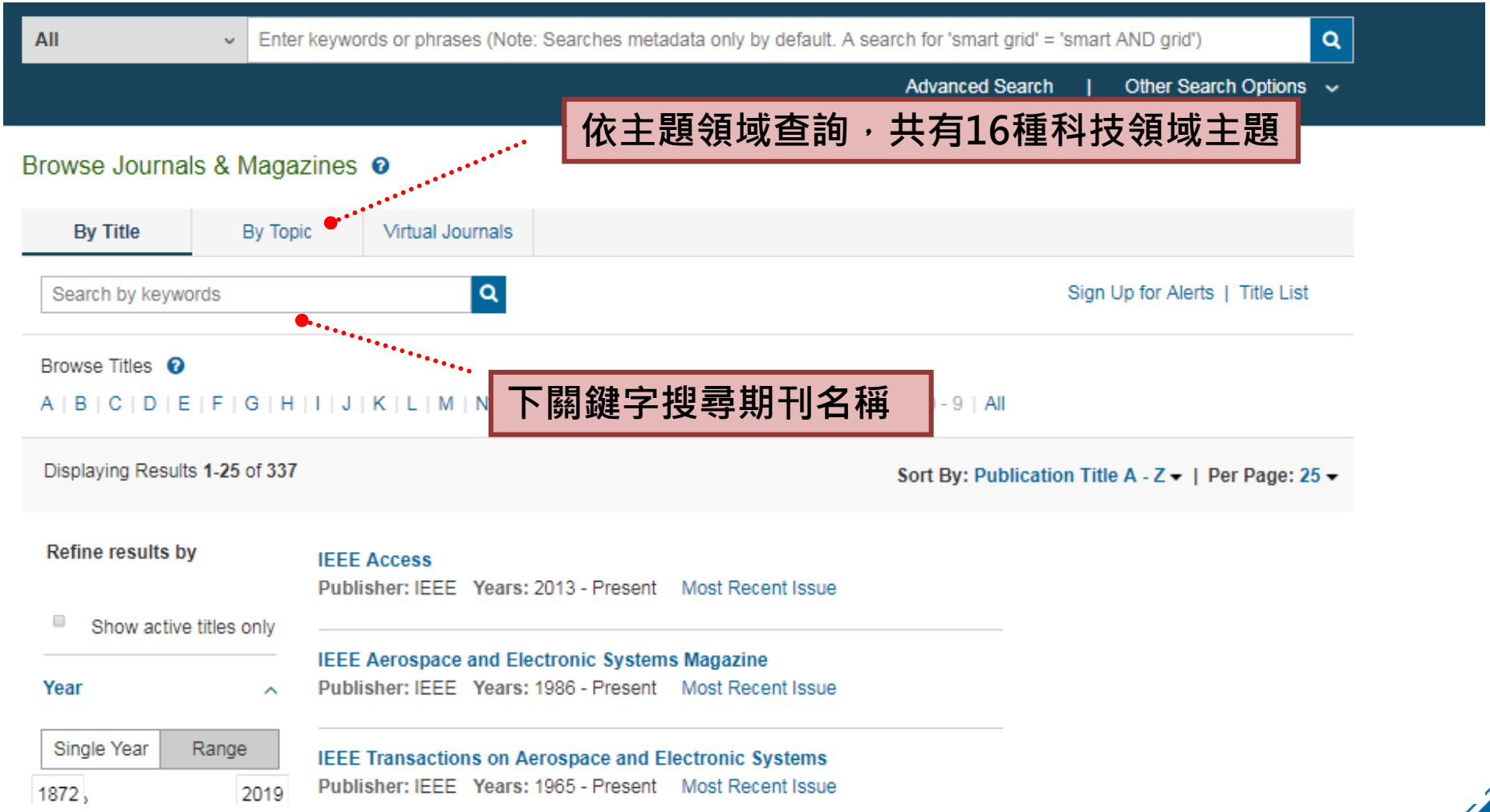

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0.0091 Eigenfactor
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As currently defined, IEEE Network covers the following areas: 1. network protocols and architectures, 2. Protocol design and validation, 3. Communication software and its development 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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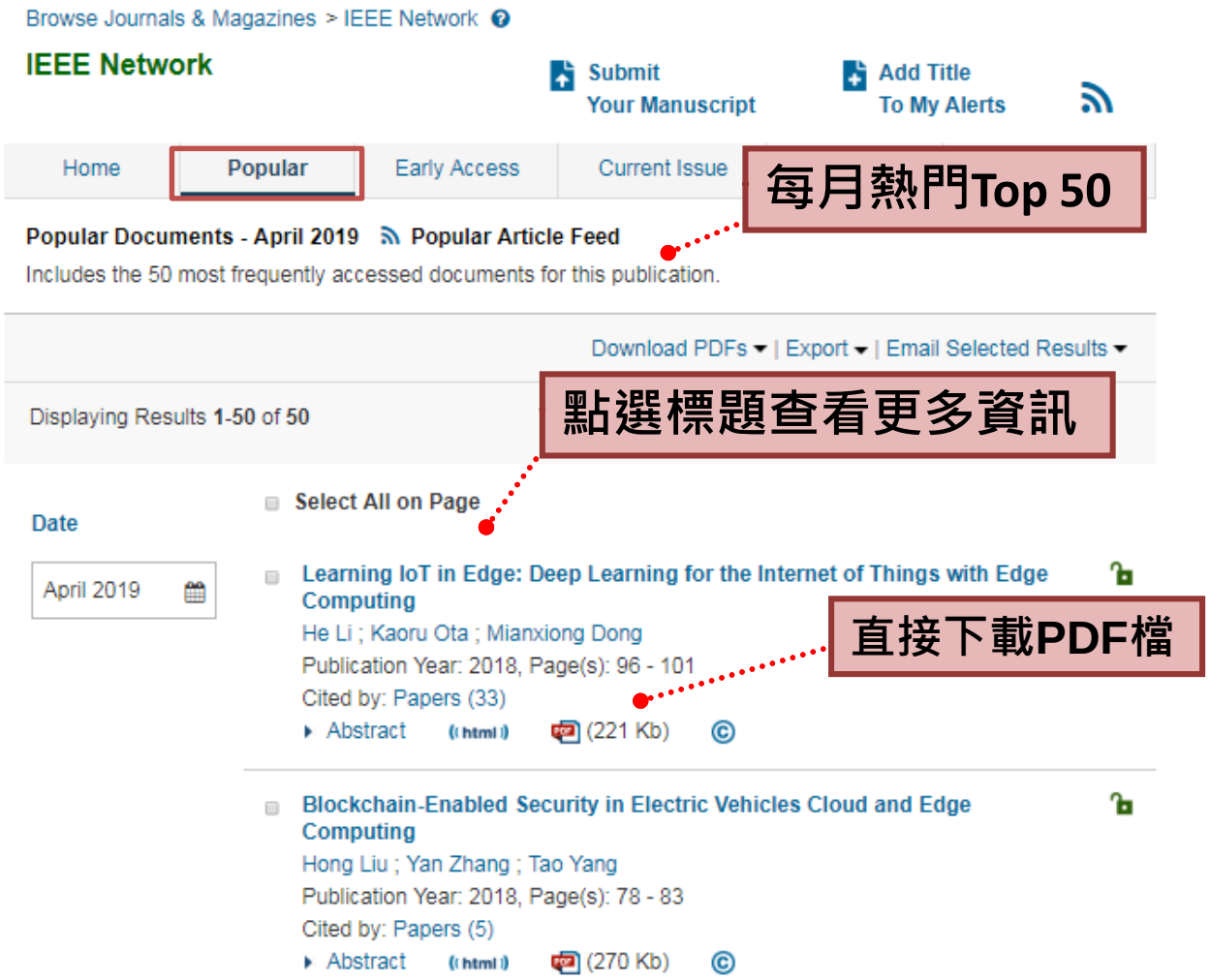
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He Li ; Kaoru Ota ; Mianxiong Dong
Publication Year: 2018, Page(s): 96 - 101
Cited by: Papers (33)
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Blockchain-Enabled Security in Electric Vehicles Cloud and Edge Computing
Hong Liu ; Yan Zhang ; Tao Yang
Publication Year: 2018, Page(s): 78 - 83
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Abstract
(270 Kb)

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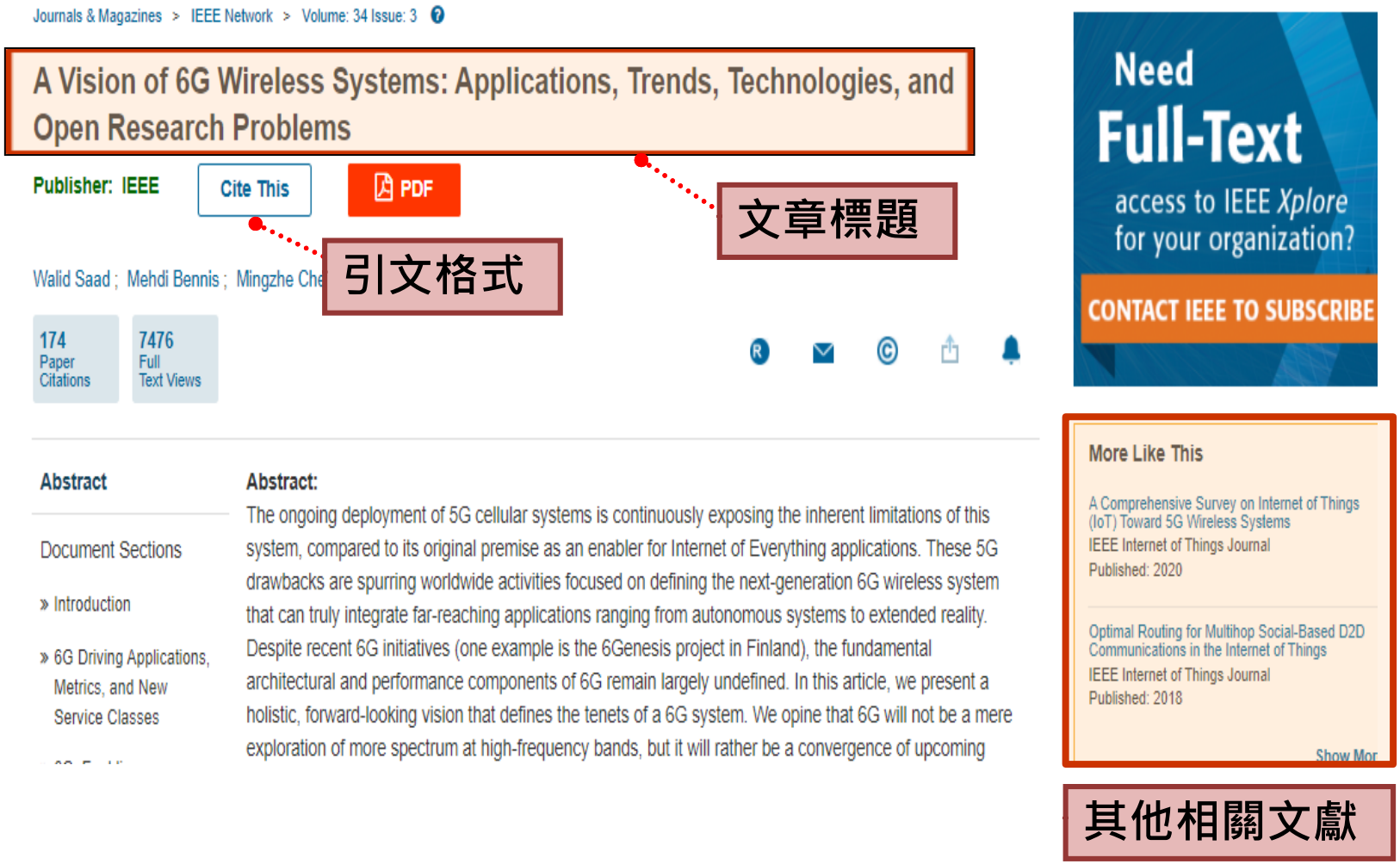

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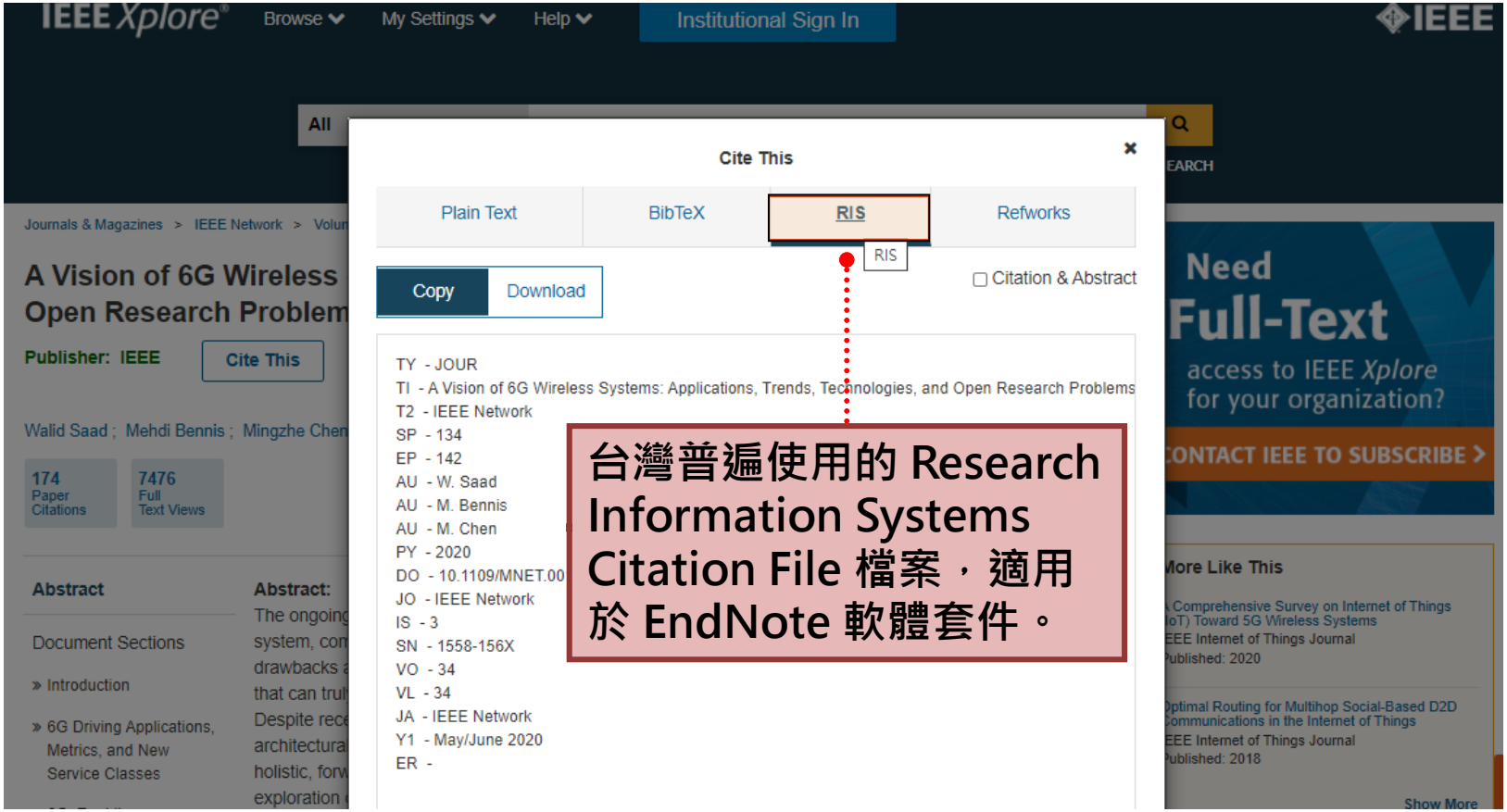
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PY - 2020
DO - 10.1109/MNET.00
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A Vision of 6G Wireless Systems: Applications, Trends, Technologies, and Open Research Problems

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Walid Saad ; Mehdi Bennis ; Mingzhe Chen All Authors

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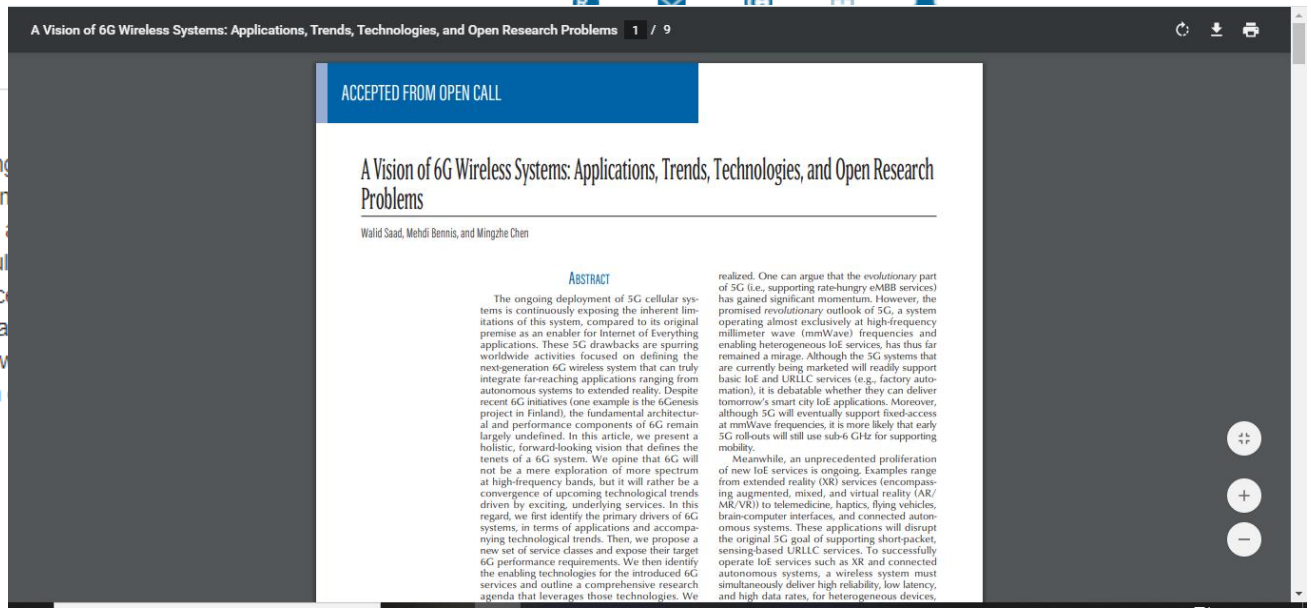

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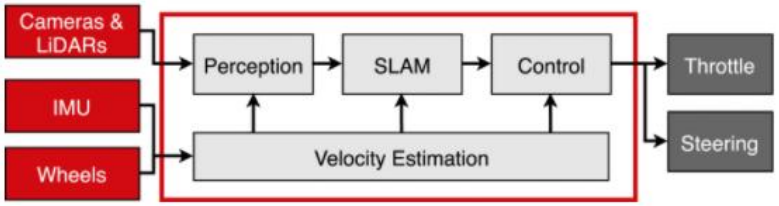

Top: pilatus driverless, the formula student race car used for testing. ©FSG - Zenker. Bottom: Simplified software architecture of pilatus driverless race car showing the central role of velocity estimation.

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 e… …erm KPIs. SSN functions must l… …AI-powered 6G SSNs.

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Trend 6 — Convergence c… 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 provide 3CLS.

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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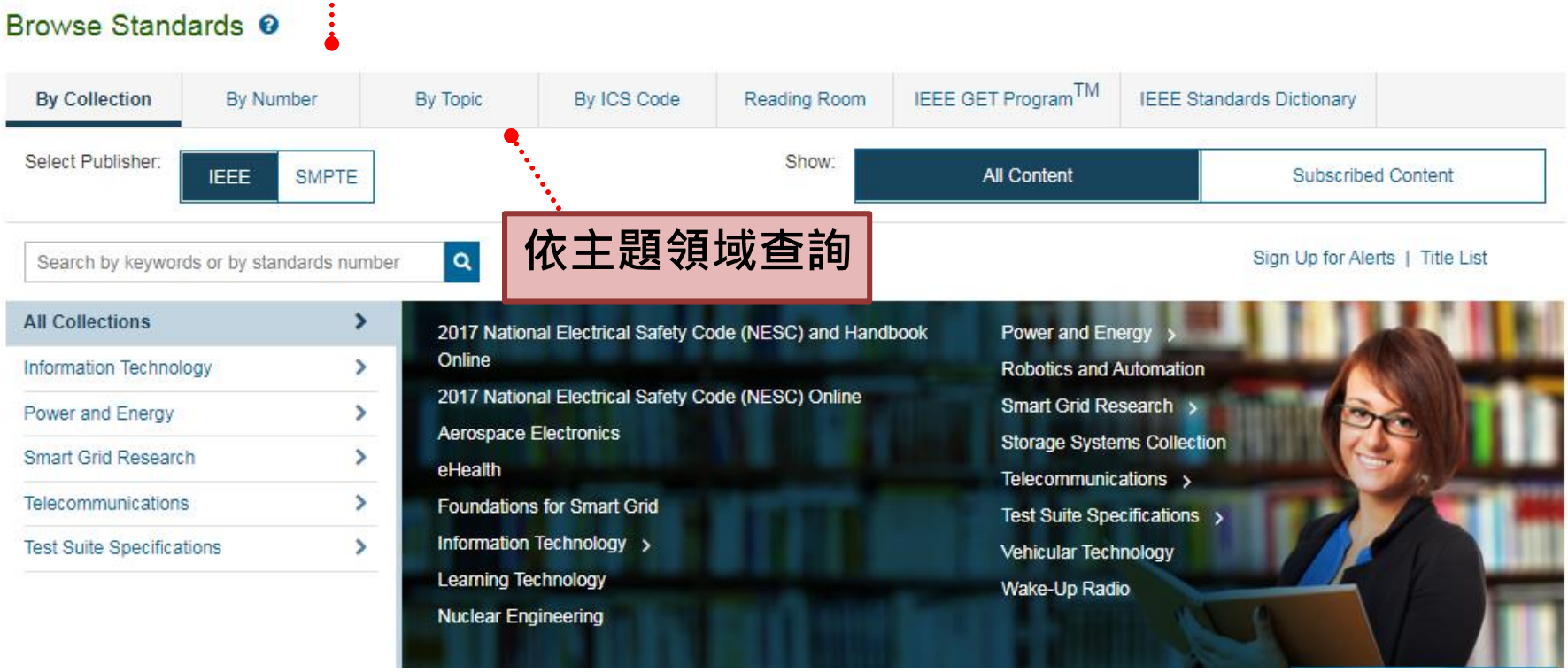

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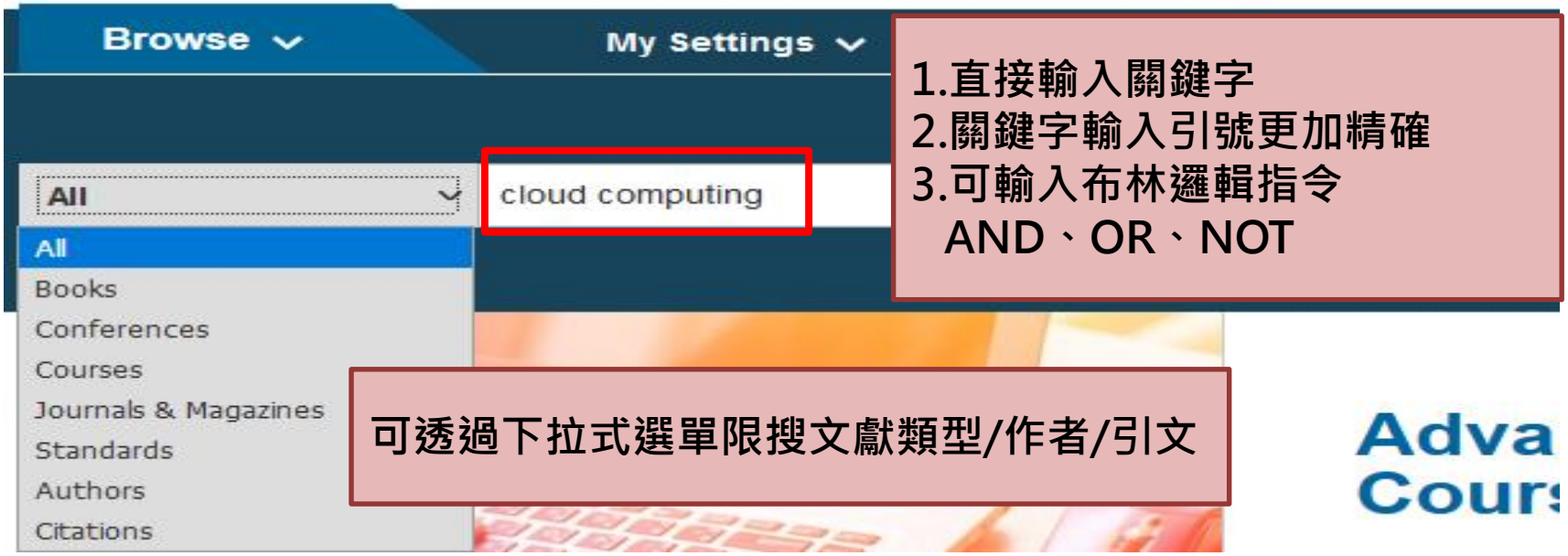

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Partha Dutta ; Tridib Mukherjee ; Vinay Gangadhar Hegde ; Sujit Gujar
2014 IEEE 7th International Conference on Cloud Computing

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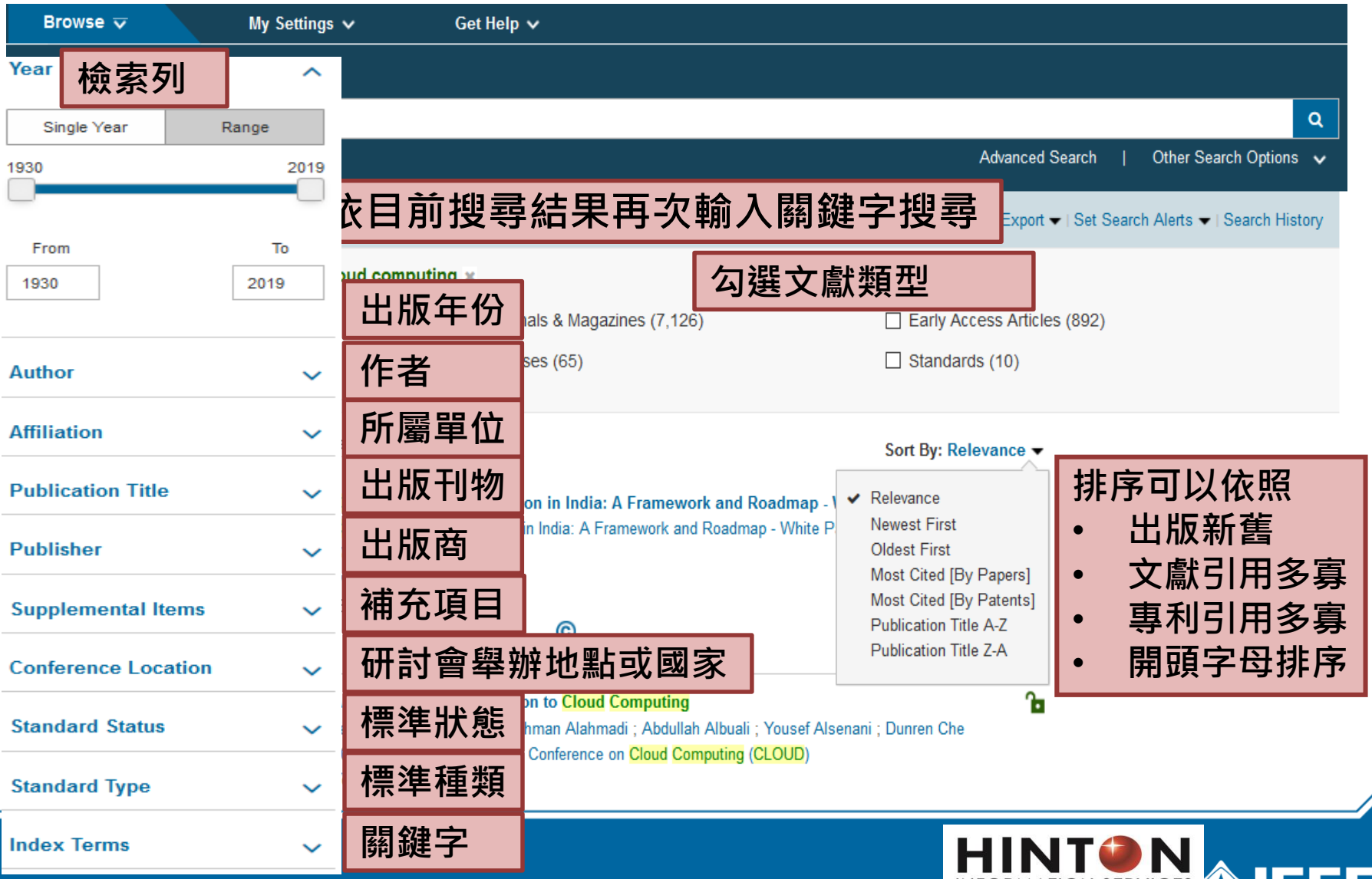

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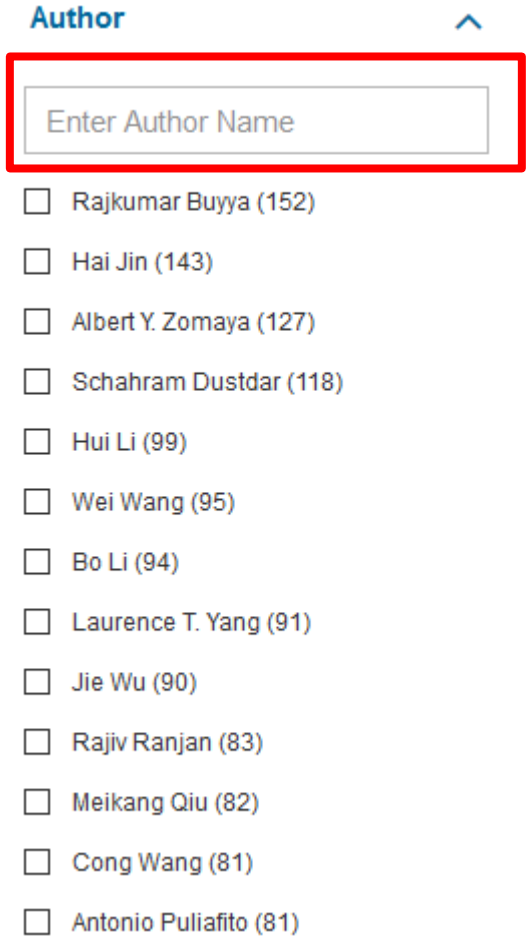

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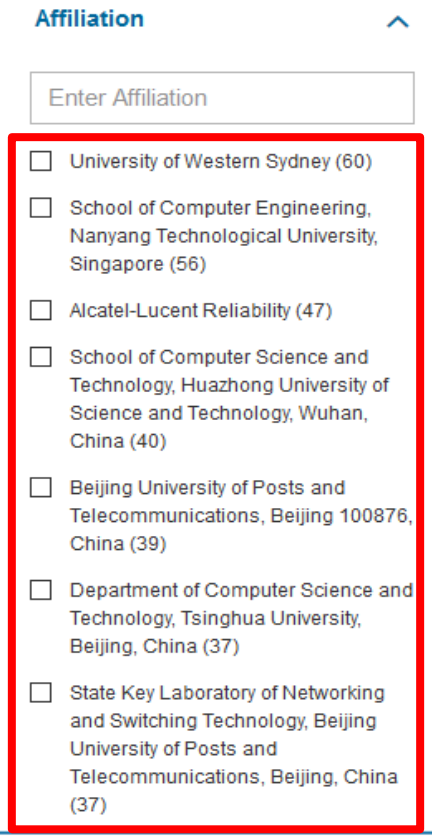

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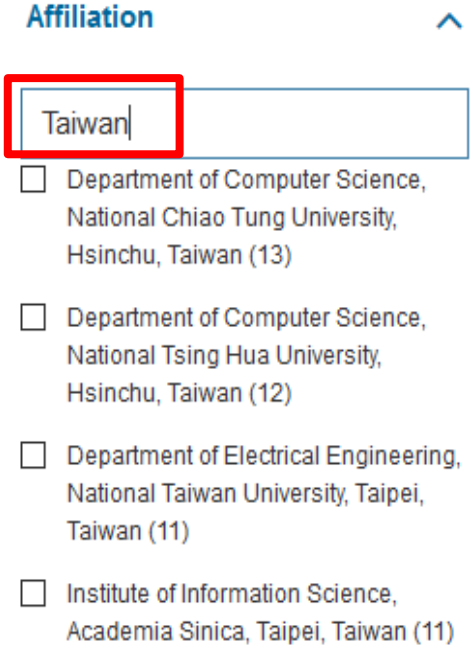

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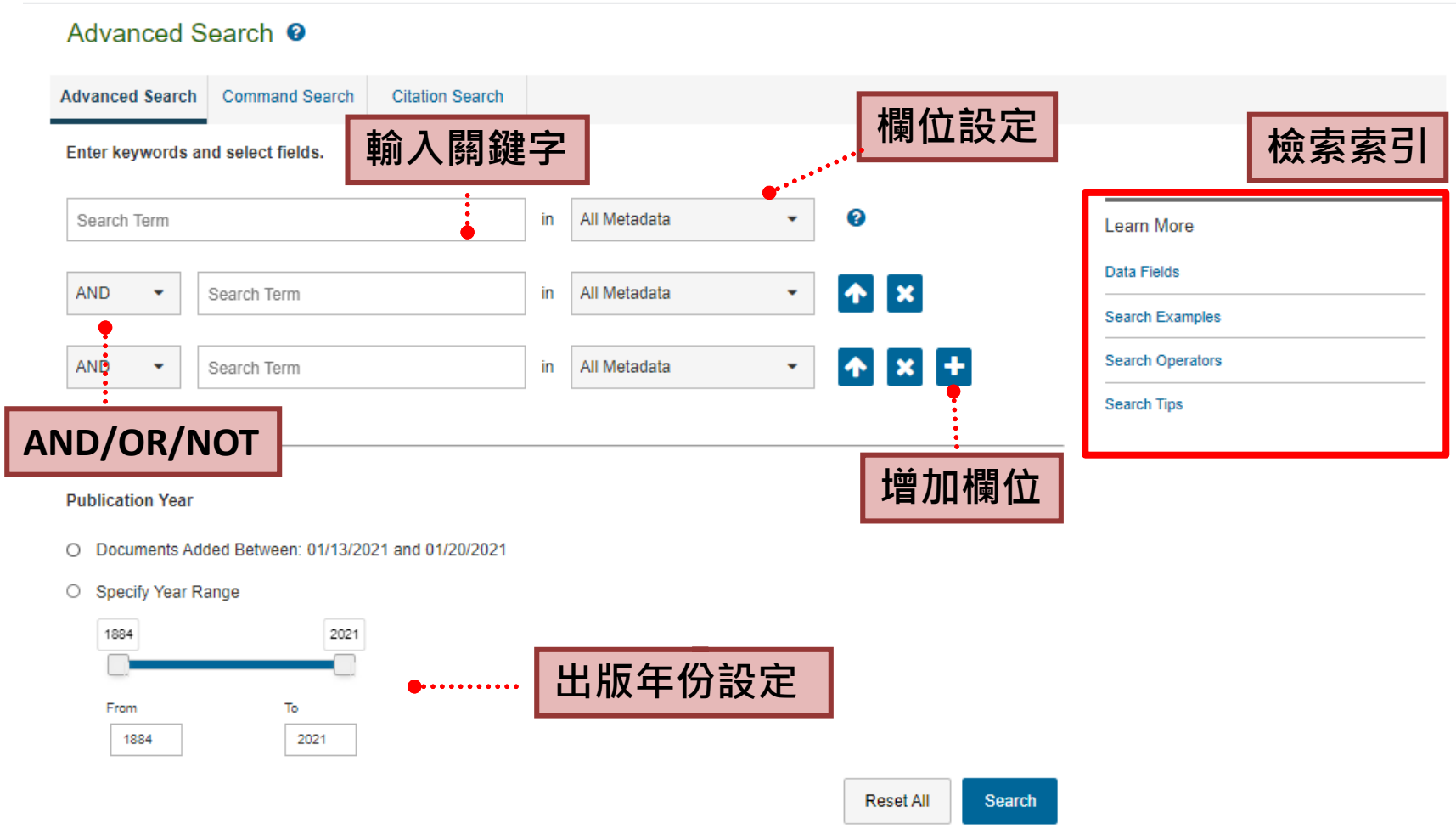

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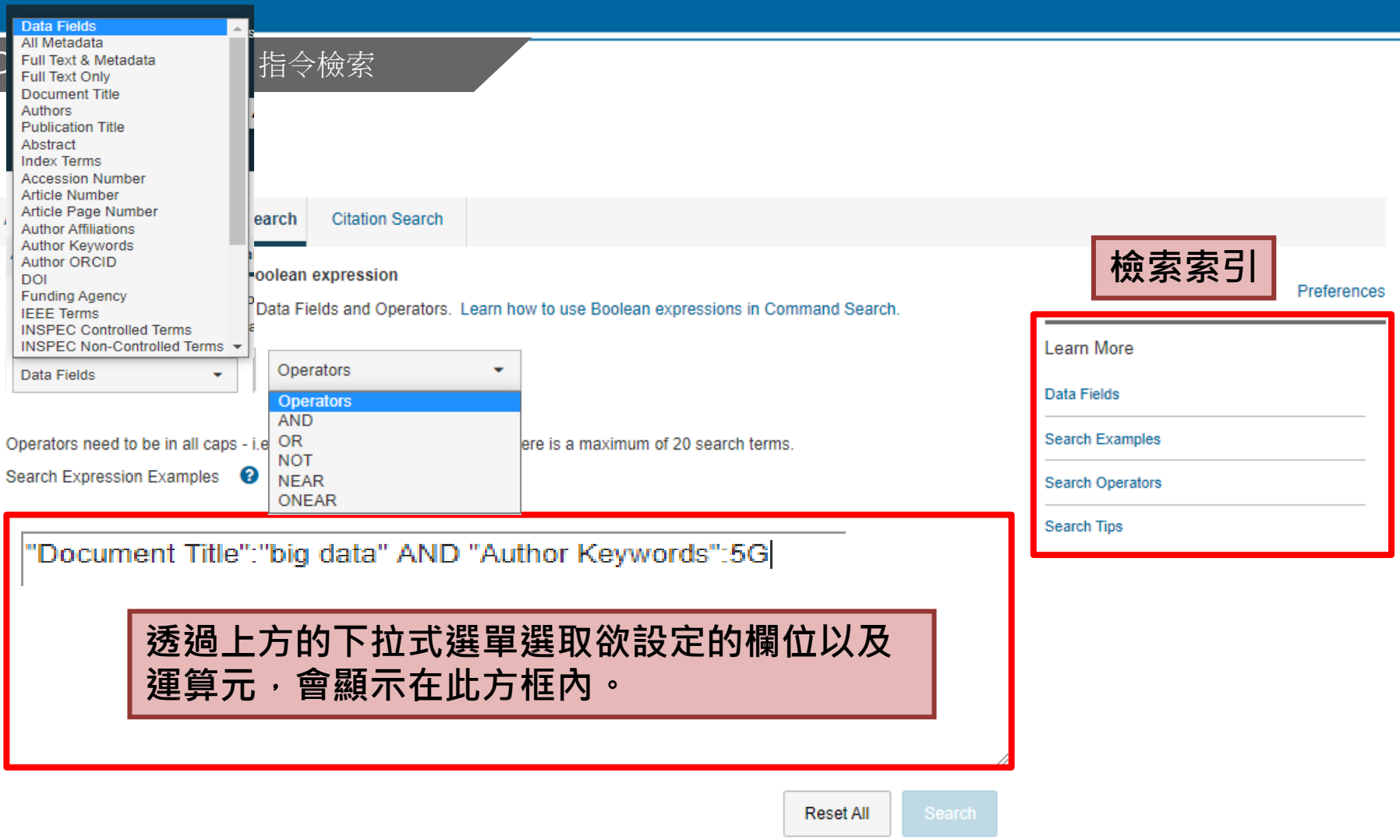
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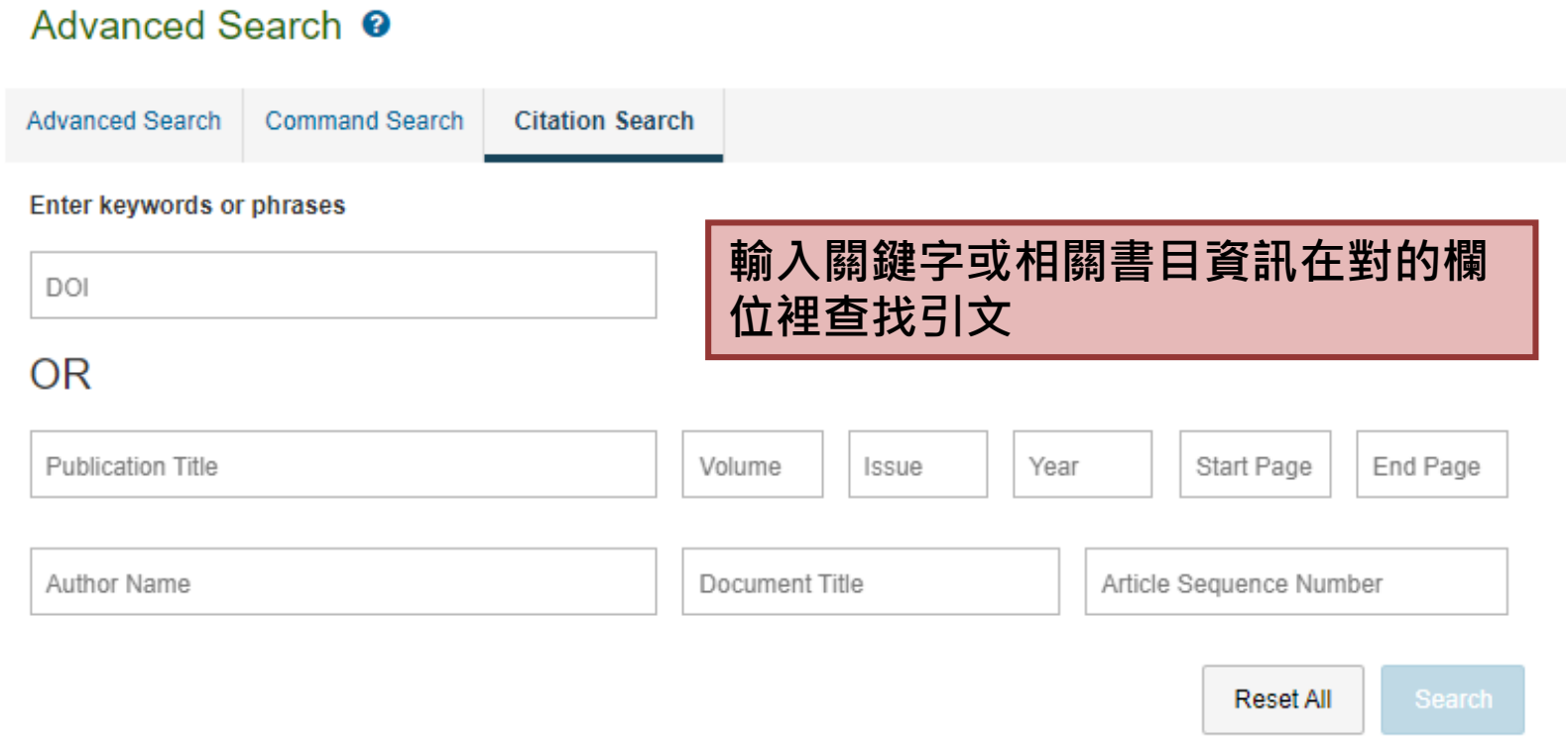

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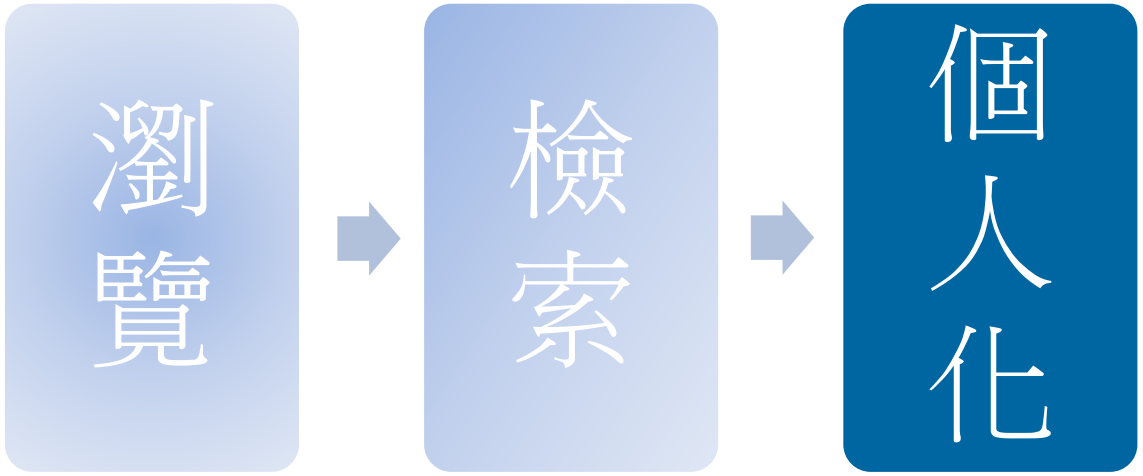

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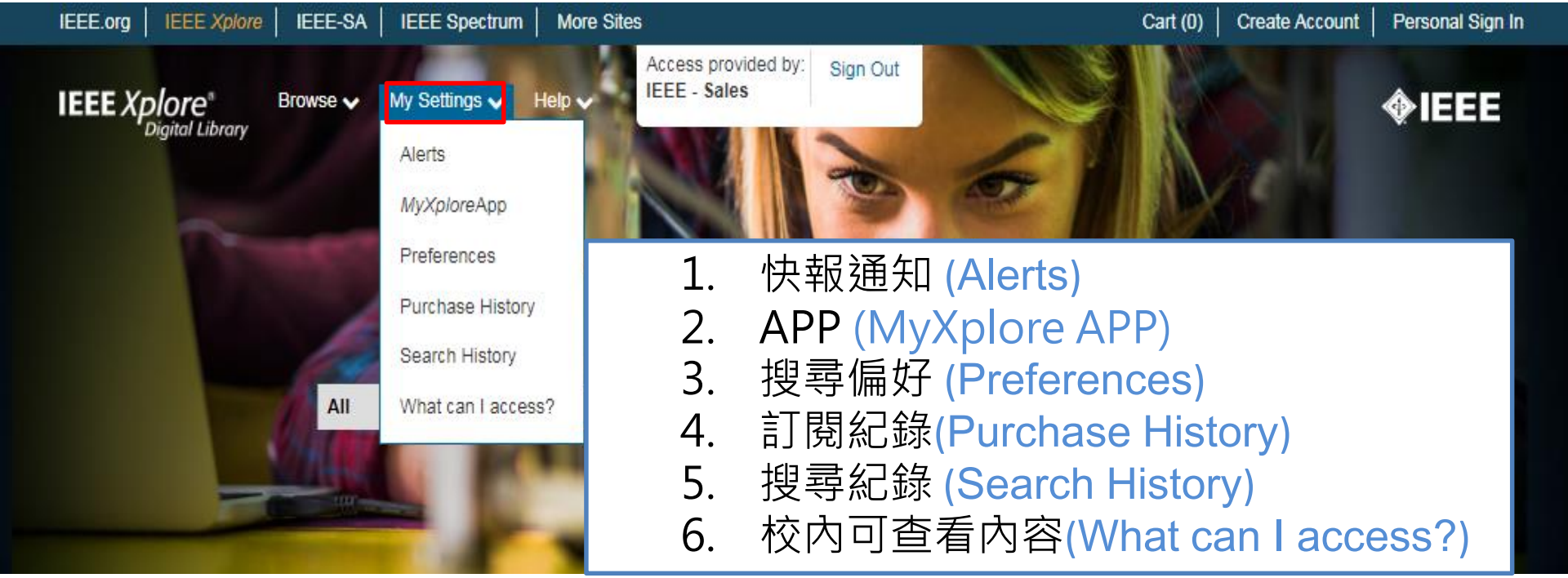

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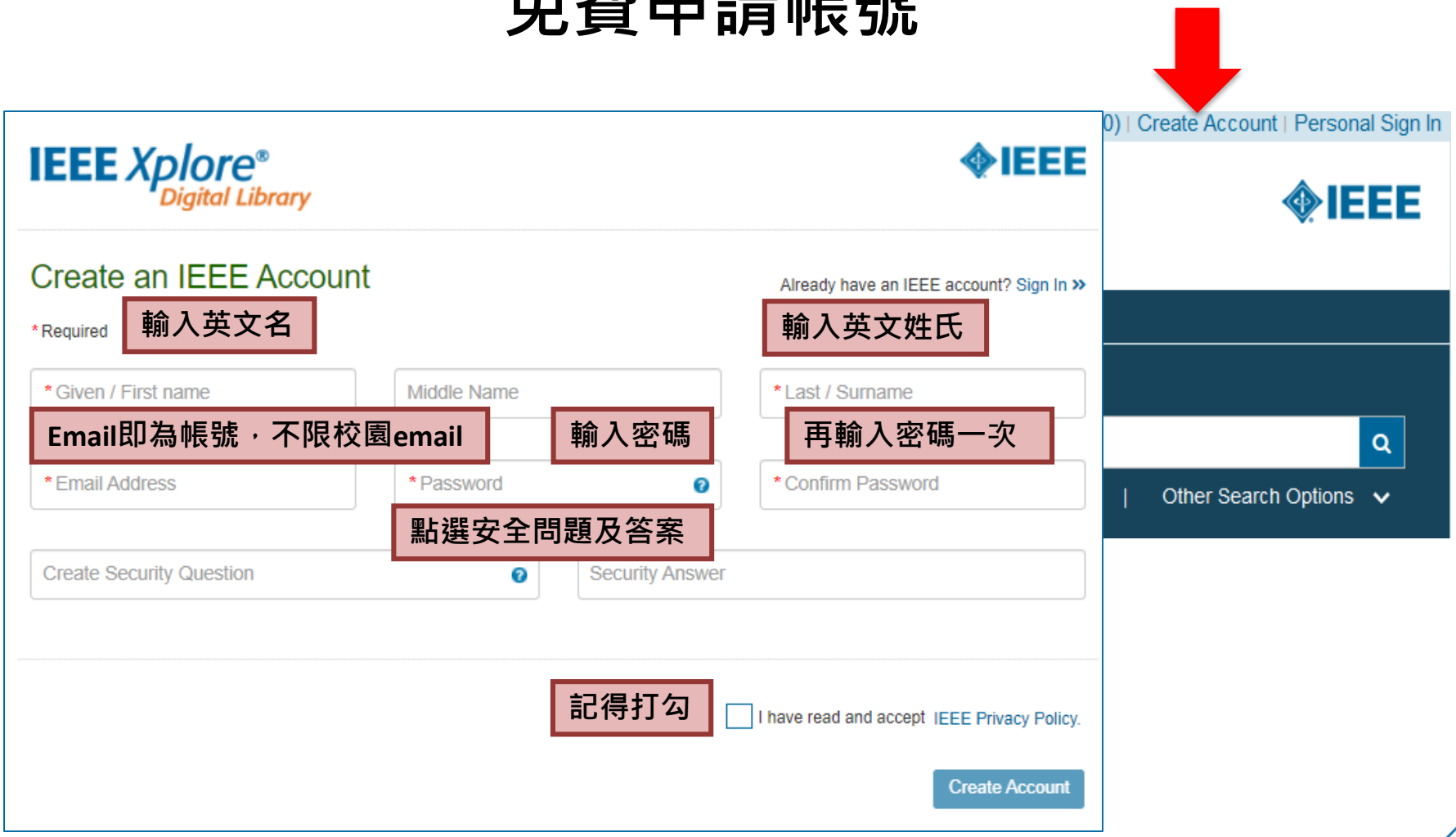
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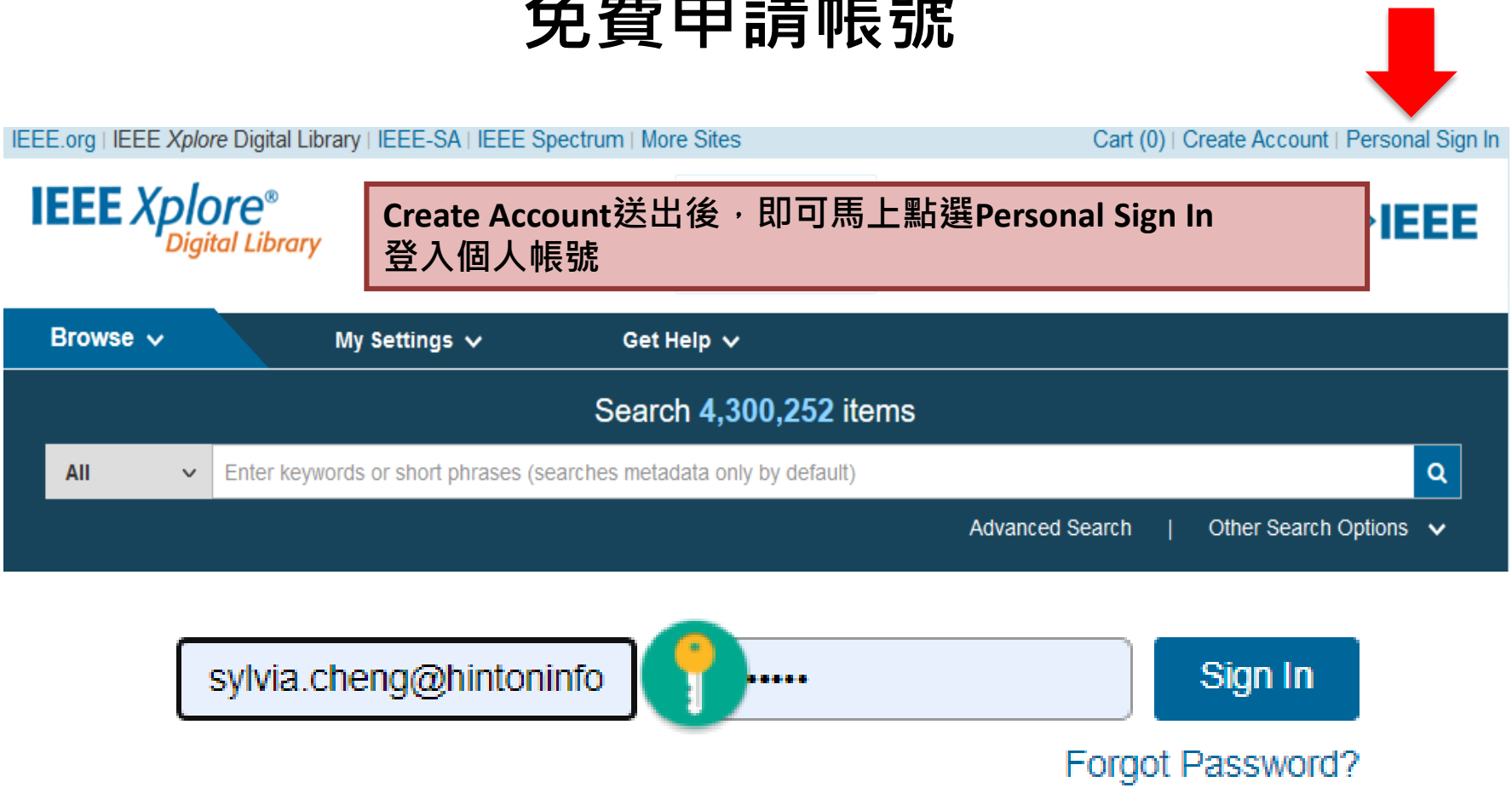

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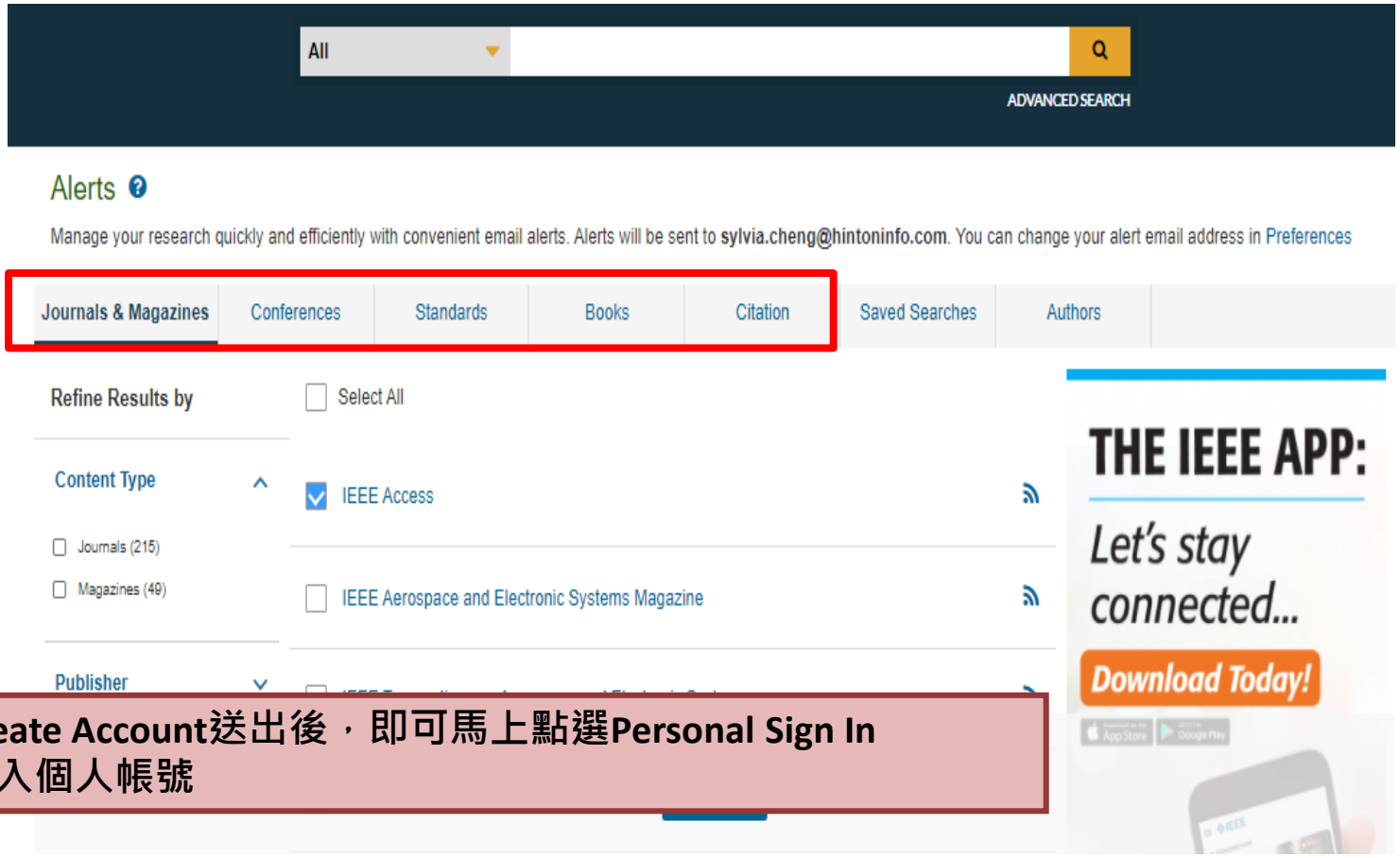

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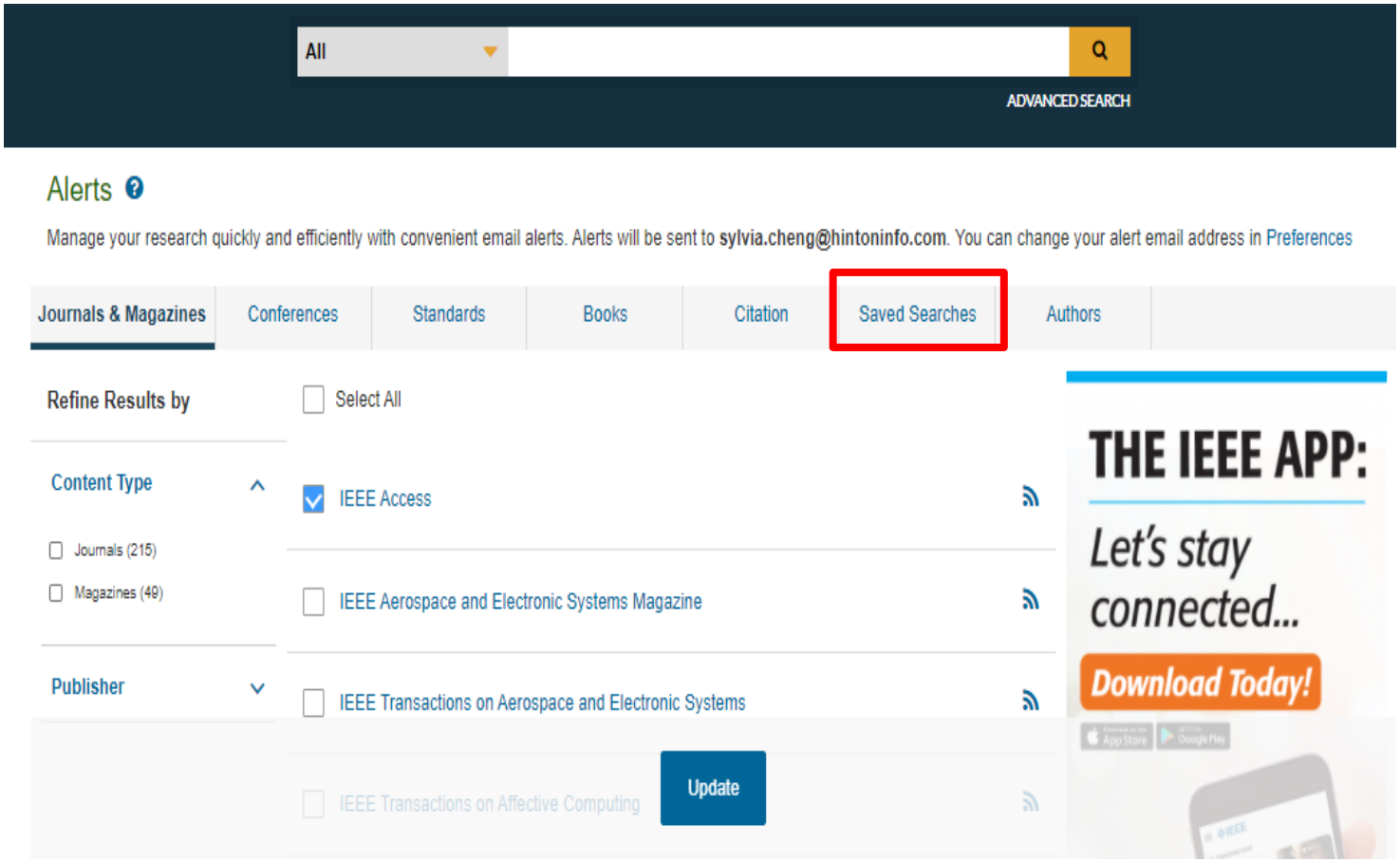

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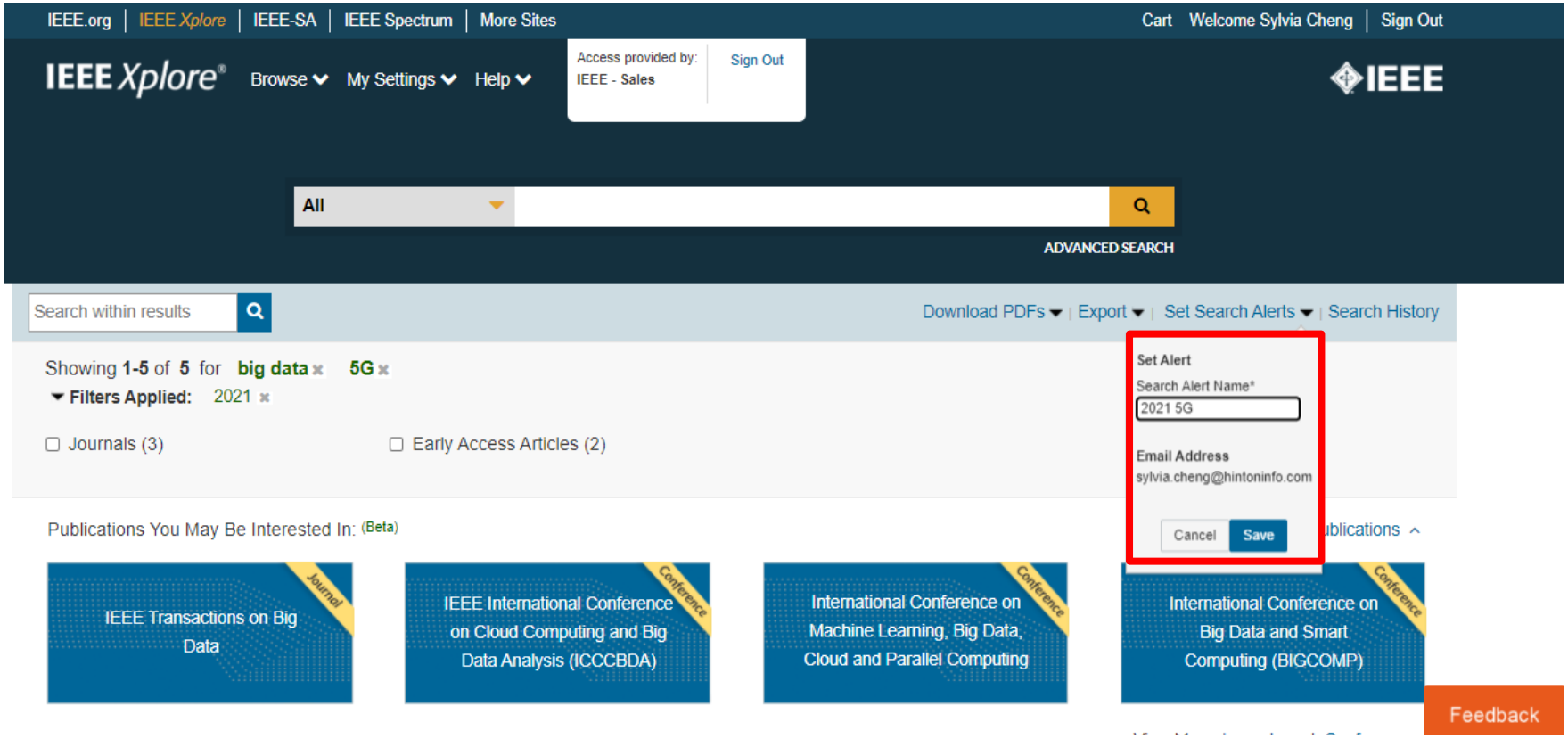

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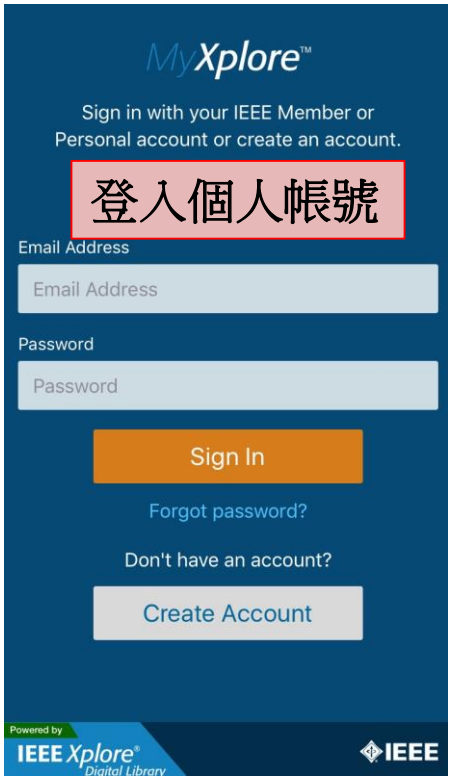

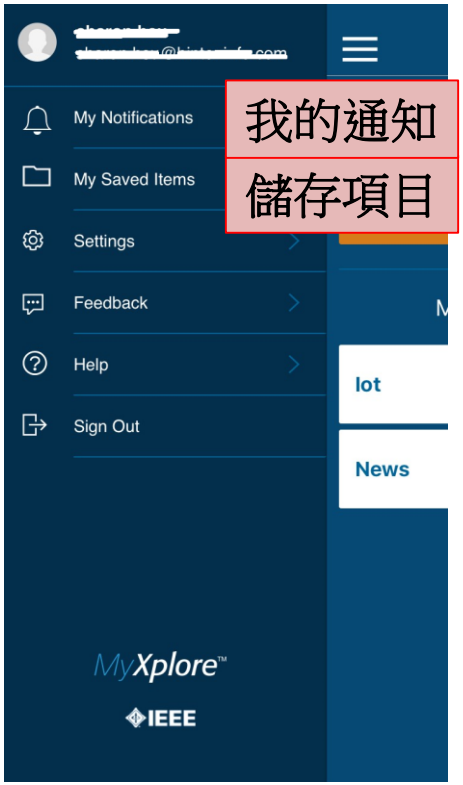

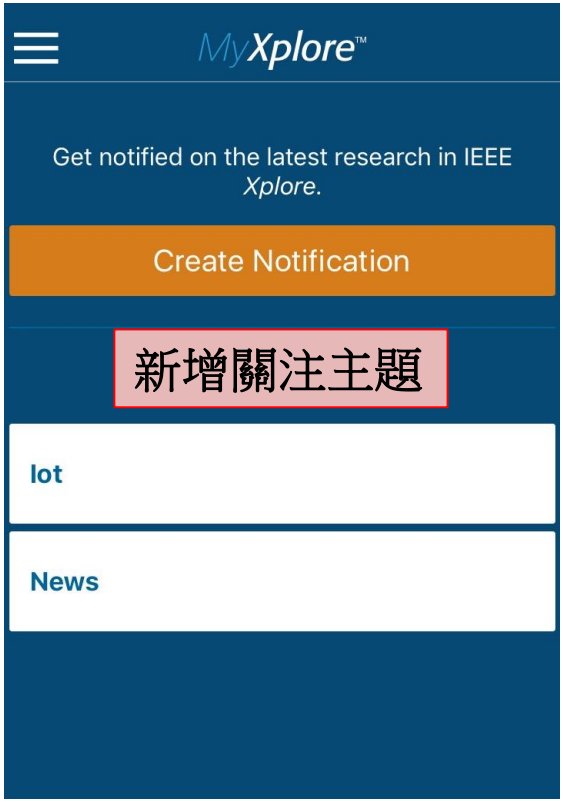

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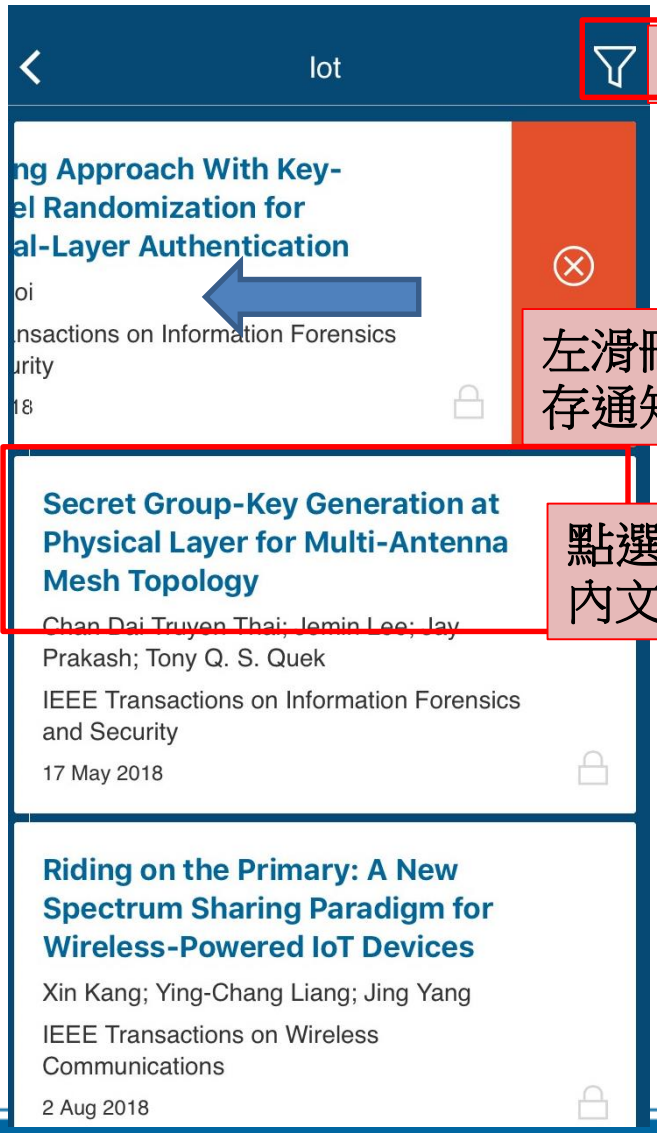

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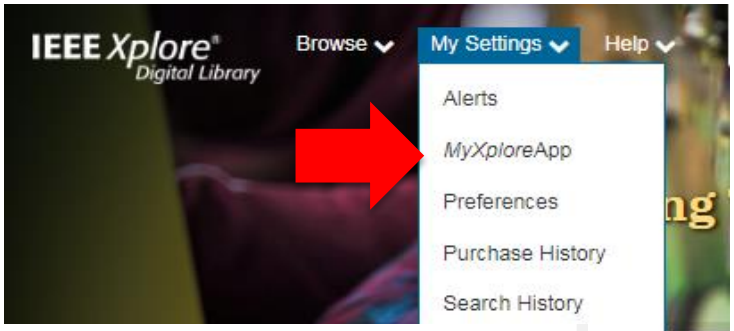

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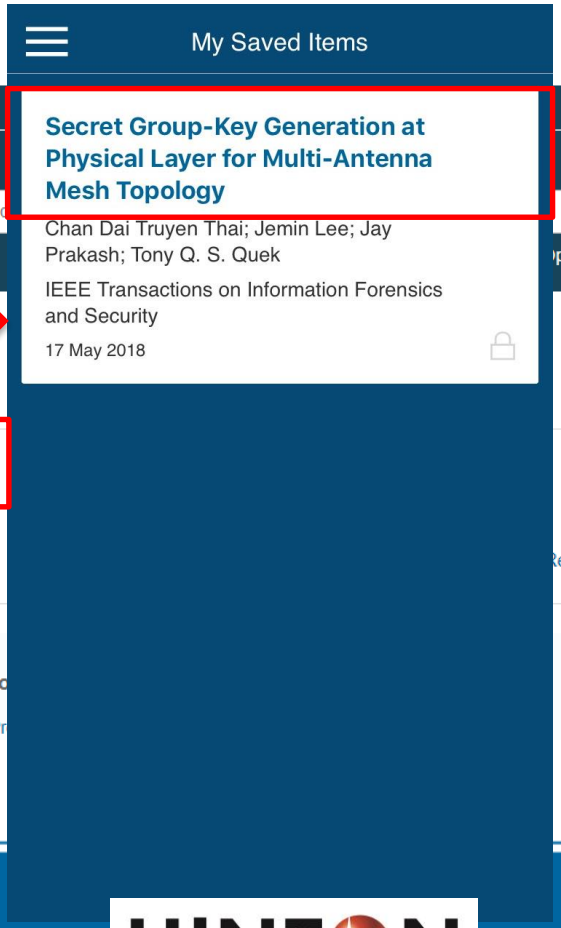

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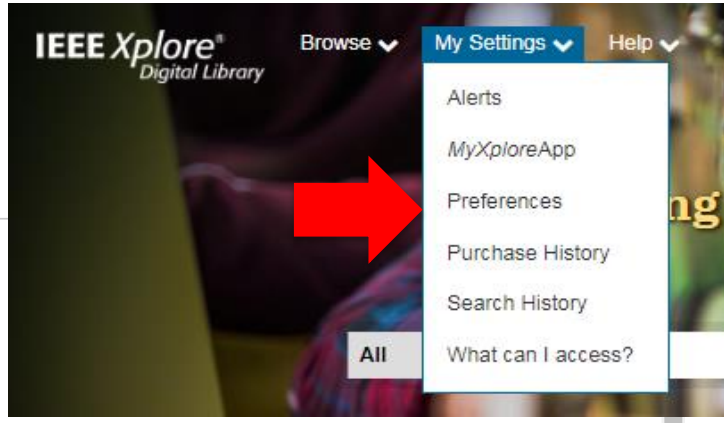

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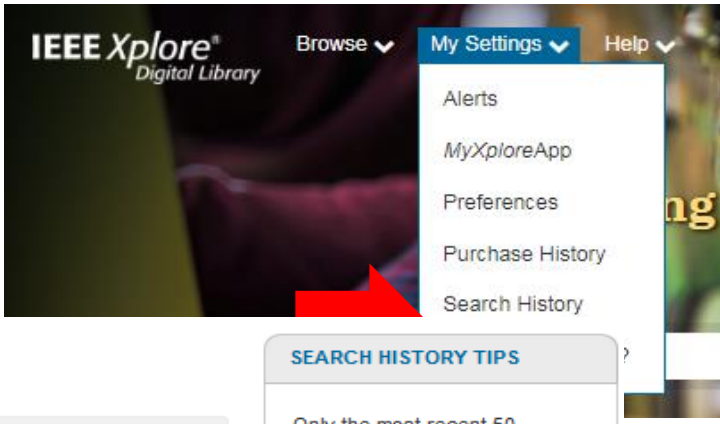

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