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學術講師 陳佳慧

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- IEEE Xplore® 平台操作說明
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  - 個人化設定



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# IEEE/IET Electronic Library (IEL)

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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)



# 關於IEEE



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- 五大核心領域
  - 出版
  - 會議
  - 標準
  - 會員
  - 教育



# IEEE *Xplore*<sup>®</sup>平台

-IEEE/IET Electronic Library (IEL)

最完整最具價值的參考資料庫

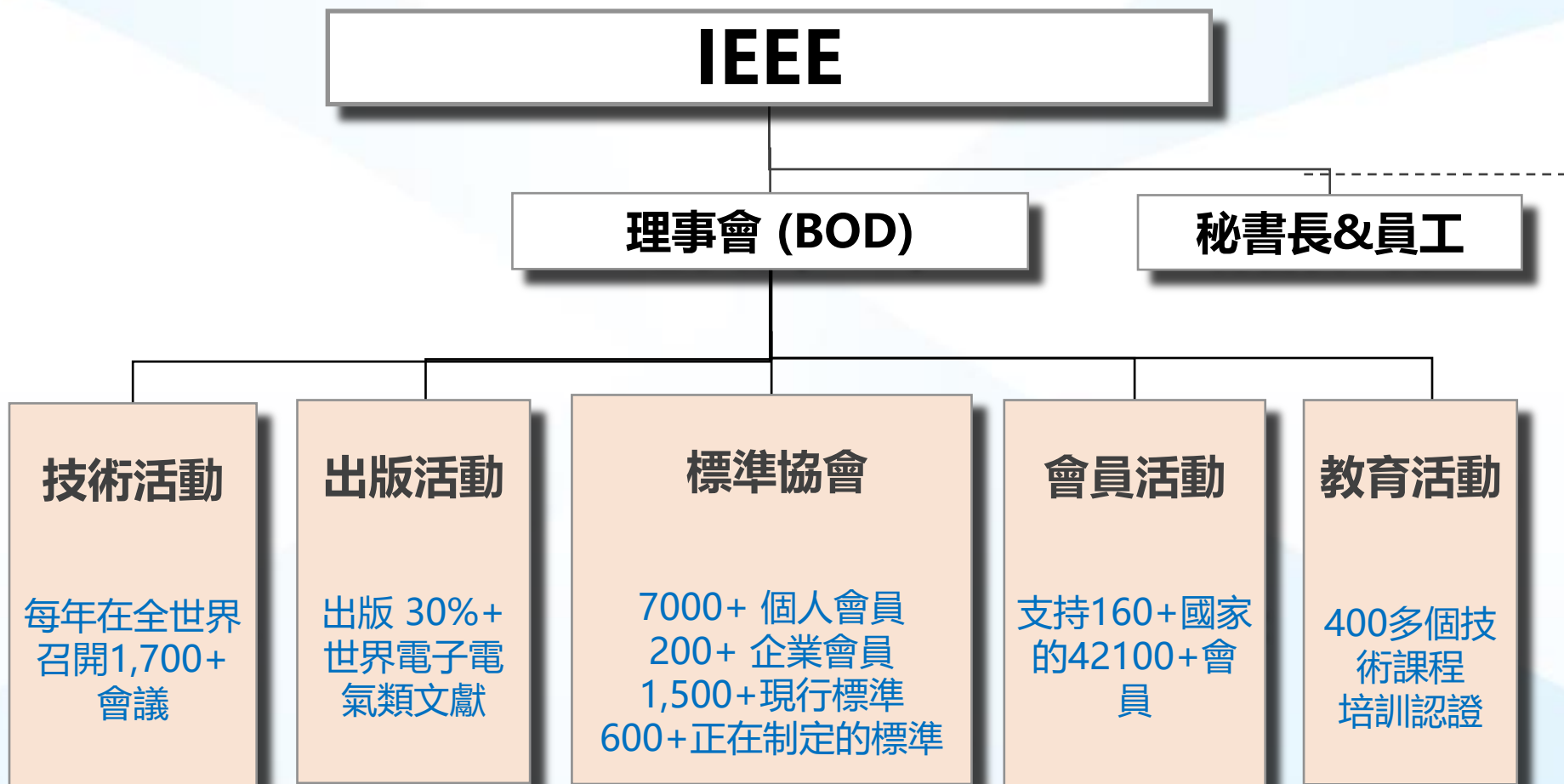
- 科技相關領域資料量最大
- 領域涵蓋最廣
- 文獻被引用次數最高
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資料筆數311筆 每頁15筆

Date	Subject
2013-04-30	All IEEE-R10 Young Engineers' Humanitarian Challenge - Call for proposals and volunteers
2013-04-14	工業技術研究院2013 VLSI-DAT研討會
2013-03-30	IEEE通信學會國立台灣科技大學無線通訊工程技術認證官網
2013-03-30	Inheritance : Considerations on Supply Chains and 3rd Parties for Software Assurance date:2013-03-14

www.ieee.org.tw

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**NEWS**

Date	Subject
2013/05/13	"Today's IEEE : Career, Content, and Networking" 學術研討會, 報名網址: <a href="http://www.hintoninfo.com.tw/upload/ieee/IEEE_2013.html">http://www.hintoninfo.com.tw/upload/ieee/IEEE_2013.html</a>
2012/06/21	101年6月29日國際會議競標趨勢研討會, 報名截止日2012/06/22, 詳情請 <a href="#">按此</a> <a href="#">報名表按此</a>
2012/05/22	Tuesday 05/29, 2:00 PM Lecture: Image processing and computational intelligence methods for computer-aided skin cancer diagnosis
2012/05/03	Lecture: Sink-Connected Barrier Coverage Optimization for Wireless Sensor Networks <a href="#">More Information</a>
2012/04/26	Meet Prof. Kenneth C. Smith at NCKU on April 30 - IEEE Circuits and Systems Society Outreach Activity <a href="#">More Information</a>
2012/04/09	有關爭取國際會議在台舉辦相關資訊, 請聯絡經濟部台灣會展躍升計畫: +886-2-2599-3445#102 王經理
2011/11/6-9	IEEE VCIP 2011 in Tainan, Taiwan from 6 to 9 November 2011 <a href="http://conf.ncku.edu.tw/vcip2011/">http://conf.ncku.edu.tw/vcip2011/</a>
2011/5/2-4	IEEE ICICDT 2011

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- IEEE Solid-State Circuits Society
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- IEEE Vehicular Technology Society
- IEEE Aerospace and Electronic Systems Society
- IEEE Antennas and Propagation Society
- IEEE Broadcast Technology Society
- IEEE Circuits and Systems Society
- IEEE Communications Society
- IEEE Components, Packaging, and Manufacturing Technology Society
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- 4 of the top 5** journals in 電腦科學-資訊系統
- 3 of the top 5** journals in 自動化與控制系統
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- 3 of the top 5** journals in 控制理論
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Based on the 2016 study released June 2017

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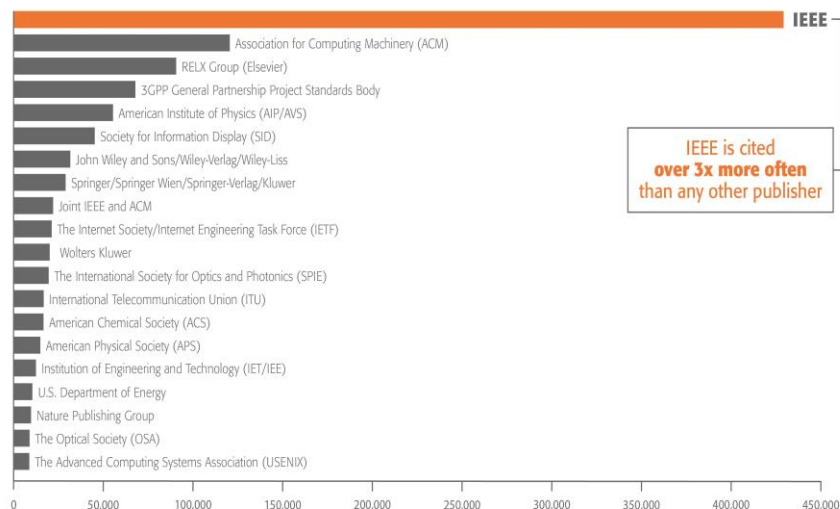
### IEEE 五度蟬聯第一

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- 1997年至今專利被引用次數增加896%
- 科技文獻在專利申請時的重要性節節攀升
- IEEE 文獻對創新者的影響力持續增加

1790 Analytics LLC performed an in-depth analysis of the science references from top patenting firms.

## IEEE 引領美國專利發展

### 前40大專利機構最常引用的出版單位



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- Based on number of references to papers/standards/conferences from 1997–2016
- Visit [www.ieee.org/patentcitations](http://www.ieee.org/patentcitations) for more information.

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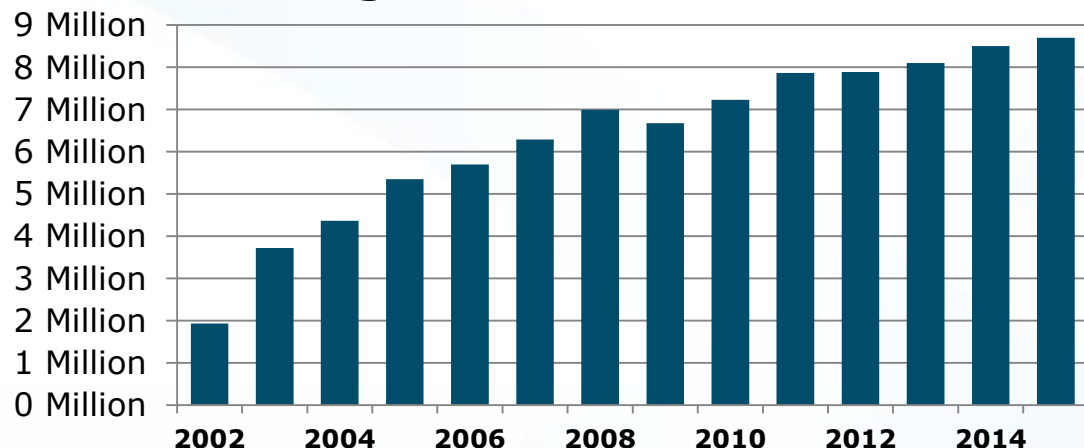
- ◆ 德國電氣工程師協會(VDE)
- ◆ 貝爾實驗室(BLTJ)
- ◆ 麻省理工學院(MITP)
- ◆ IBM
- ◆ 電影電視工程師協會(SMPTE)
- ◆ 北京航天情報與信息研究所 (BIAI)
- ◆ 清華大学出版社 (TUP)



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Source: IEEE Xplore Internal Usage Stats

**全球下載量：台灣第四**

Data year end 2015

**#1 China**



**#2 USA**



**#3 India**



**#4 Taiwan**



**#5 Korea**



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# IEEE *Xplore*<sup>®</sup> 平台收錄內容

# 收錄資料類型

[ 期刊雜誌 ] Journal & magazine

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[ 標準規範 ] IEEE standards

[ 電子書 ] Books & ebooks

[ 線上學習 ] Education & Learning

# 2018新刊

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

- IEEE **Internet of Things** Magazine
- IEEE Transactions on **Medical Robotics** and Bionics
- IEEE Letters of the **Computer Society**
- IEEE **Solid-State Circuits** Letters
- IEEE **Control Systems** Letters  
(First articles published mid 2017)
- IEEE **Sensors** Letters  
(First articles published mid 2017)

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# 2017新刊

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- IEEE **Communications Standards** Magazine
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- IEEE Trans. on **Green Communications** and Networking
- IEEE Trans. on Radiation and **Plasma Medical Sciences**
- IEEE Journal of **Radio Frequency Identification**

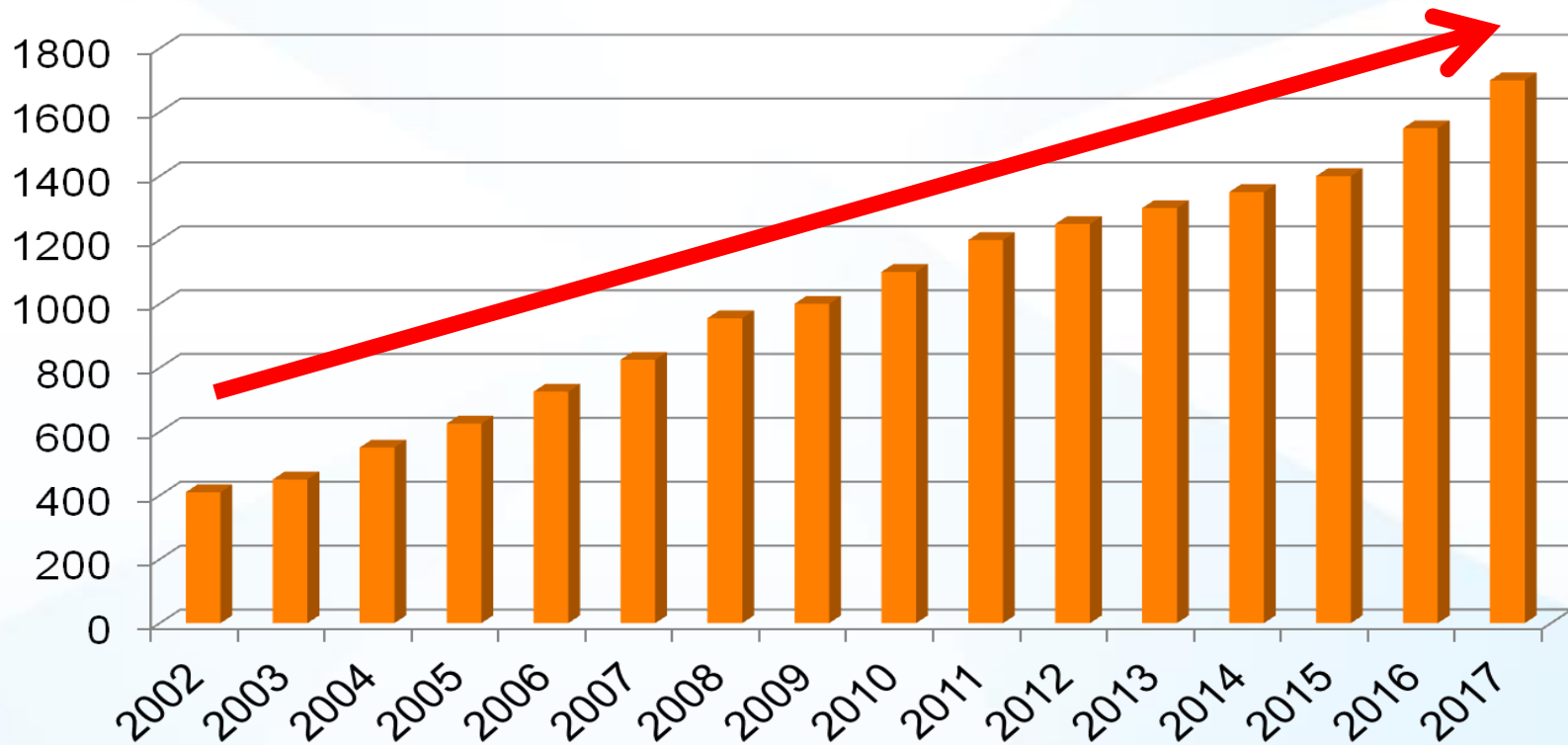


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每一年IEEE/IET/VDE 在全球舉辦國際會議，學術與業界專家齊聚一堂，分享與討論各科技領域相關議題。

IEEE

IET

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# 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 合作夥伴

收錄全球科技領先出版社電子書來拓展視野

## Telecommunications



## Computing and Engineering



## Synthesis Series



## Foundations and Trends Series



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# IEEE COURSES 線上學習課程

## IEEE eLearning Library

### ■ Ethical Hacking Course Program

駭客入侵防堵線上學習課程，透過了解駭客常用的工具和方法，以實際了解駭客的行為，進而知道如何保護網路、系統免受攻擊。如何掃描及測試系統的安全漏洞，藉以保護系統安全，防堵不法駭客的入侵。系列包含8大主題課程

### ■ Cyber Security Course Program

美國電子電機工程師學會IEEE推出線上課程，針對資訊安全各面向議題進行探討，協助掌握最新資訊安全漏洞陷阱及防範的策略及技巧，內容涵蓋11項主題

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# Ethical Hacking Course Program

## Hacking Your Company: Ethical Solutions to Defeat Cyber Attacks



A well trained Ethical Hacker is a skilled professional who understands and knows how to look for weaknesses and vulnerabilities in target systems and uses the same knowledge and tools as a malicious hacker, but in a lawful and legitimate manner to assess the security posture and readiness of target systems.

- Ethical Hacking: System Hacking
- Ethical Hacking: Evasion Techniques
- Ethical Hacking: Malware Fundamentals
- Ethical Hacking: SQL Injections
- Ethical Hacking: Enumeration
- Ethical Hacking: Scanning
- Denial of Service Attacks
- Introduction to Penetration Testing

# Cyber Security Course Program



Introductory

## Cloud Security

Cloud computing is causing a transformational shift that touches almost every part of the technology landscape. This video course presents a picture of threat vectors in cloud services, and the unique architectural considerations for securing assets ...[View More](#)

CEUs: 0.8

PDHs: 8

1 Hour



Intermediate

## Footprinting

Footprinting is the process of gathering data regarding a network environment, and is usually for the purpose of finding ways to intrude into the environment. Footprinting can reveal system vulnerabilities and improve the ease with which they can be ...[View More](#)

CEUs: 0.8

PDHs: 8

1 Hour



Intermediate

## Cryptography Fundamentals

When storing and transmitting data, it's important to secure your data in such a way that only those for whom it is intended can read/process it. Cryptography is a method to ensure this security. This course will explore areas of cryptography. Topics...[View More](#)

CEUs: 0.8

PDHs: 8

1 Hour



Introductory

## Introduction to Penetration Testing

Penetration testing (or 'pen testing') is the process of testing a computer system, Web application or network to find vulnerabilities that could be exploited by an attacker. This course will discuss the concept of pen testing and what role it plays...[View More](#)

CEUs: 0.8

PDHs: 8

1 Hour



Introductory

## Data Security in the Cloud

The move to Cloud services introduces many new and complex issues related to data security. This video course addresses the threats to data security as they relate to the Cloud, and offers a review of the technologies that work together to create a r...[View More](#)

CEUs: 0.8

PDHs: 8

1 Hour



New

Intermediate

## Mobile Device Security

As mobile technologies mature, there is an increase in the use of mobile devices to access sensitive data. Unfortunately, security controls have not necessarily kept pace with the security risks that mobile devices can pose. In this course, the diffe...[View More](#)

CEUs: 0.8

PDHs: 8

1 Hour




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# Cyber Security Course Program




**New**

**Intermediate**

## Network Sniffing

A sniffer is a program/device that monitors data traveling over a network. Sniffers can be used both for legitimate network management and for stealing information off a network. Unauthorized sniffers can be dangerous to a network's security as they ...[View More](#)

CEUs: 0.5	PDHs: 3	1 Hour
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**New**

**Intermediate**

## Web Server & Web Application Security

Web server and Web application security is the protection of information assets that can be accessed from a Web server or application. Security is important for any organization that has a physical or virtual Web server connected to the Internet. Thi...[View More](#)

CEUs: 0.5	PDHs: 3	1 Hour
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**Intermediate**

## Social Engineering for Cyber Security

Social engineering is a tactic used to manipulate individuals to divulge confidential information. The types of information these criminals are seeking can vary, and it's important to understand how to identify these attacks. In this course, we expl...[View More](#)

CEUs: 0.5	PDHs: 3	1 Hour
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**New**

**Intermediate**

## WiFi and Bluetooth Security

It's vital to develop strategies for mobile device security, including WiFi and Bluetooth, so that your data isn't compromised. While all mobile devices present risks that need to be addressed, WiFi and Bluetooth security is a vital area. In this cou...[View More](#)

CEUs: 0.5	PDHs: 3	1 Hour
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**Introductory**

## System Fundamentals for Cyber Security

This course will examine basic technologies for Cyber Security. This course provides a fundamental overview particularly helpful for an introductory look at Cyber Security. Topics covered will include: a review of common operating systems and their va...[View More](#)

CEUs: 0.5	PDHs: 3	1 Hour
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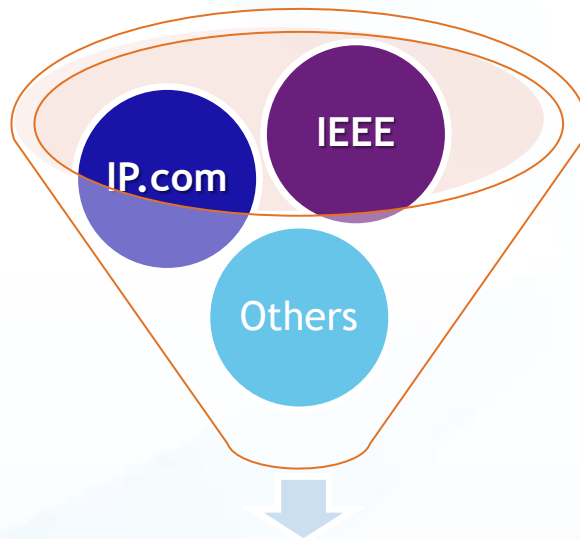
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- Other non-patent literature including Pub Med and IETF

### Platform



- Semantic Search
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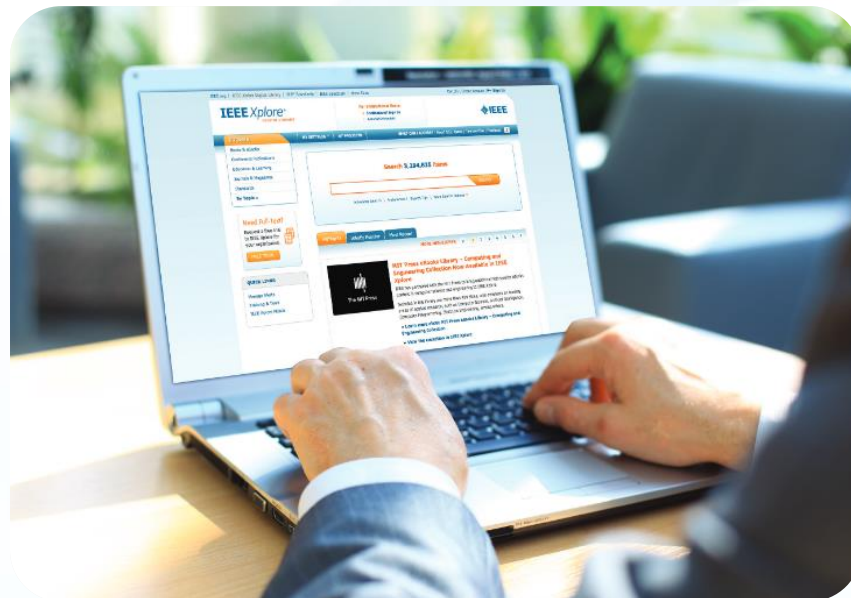
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  - HTML 瀏覽
- 檢索功能
  - Basic Search 基本檢索
  - Author Search 作者檢索
  - And more.....
- 個人化設定
  - 新知快報 (Content Alerts)
  - 檢索結果通知(Searches Alerts)
  - And more.....
- Other tips and 手機平板介面



# 首頁總攬(A)

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## 瀏覽功能:

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- 依主題

## 檢索工具列:

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- Author Search 作者檢索
- Publication Search 出版品檢索
- Advanced Search 進階檢索
- Other Search Options 其他檢索

## 最新消息

The screenshot shows the IEEE Xplore Digital Library homepage. At the top, there is a navigation bar with links to IEEE.org, IEEE Xplore Digital Library, 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 features the IEEE Xplore Digital Library logo and an access notice: 'Access provided by: IEEE Sales' with a 'Sign Out' link. Below the header, there is a navigation bar with 'Browse', 'My Settings', and 'Get Help' dropdown menus. The main content area has a search bar with the text 'Search 4,291,640 items'. Below the search bar, there is a dropdown menu for 'All' and a search input field with the placeholder text 'Enter keywords or short phrases (searches metadata only by default)'. To the right of the search input, there are links for 'Advanced Search' and 'Other Search Options'. The main content area is divided into two sections. The left section features a large image of a person in a suit holding a glowing lightbulb, surrounded by gears. The right section contains a webinar announcement titled 'Webinar: See the New Features in InnovationQ Plus'. The text describes the webinar as ideal for IP professionals interested in learning about new features coming to InnovationQ Plus, such as corporate tree, enhanced searching, and next generation semantic mapping. Below the text, there is a link to 'View the recorded webinar'. At the bottom right, there is a pagination control with a left arrow, four dots, and a right arrow.

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**Webinar: See the New Features in InnovationQ Plus**

Ideal for IP professionals interested in learning about the robust new features coming to InnovationQ Plus, like corporate tree, enhanced searching, and next generation semantic mapping.

[View the recorded webinar](#)

IEEE


# 首頁總攬(B)

點選不同欄位，觀看  
文獻訊息。

欄位依序為：

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(Conference Publications)
- 標準規範  
(Standards)
- 電子書籍  
(Books & eBooks)
- 線上課程  
(Education & Learning)

Journals & Magazines	Conference Publications	Standards	Books & eBooks	Courses
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 **Just Published**

**IEEE Electrification Magazine**  
Volume: 5 Issue: 3  
*Sept. 2017*

**IEEE Transactions on Applied Superconductivity**  
Volume: 27 Issue: 7  
*Oct. 2017*

**IET Circuits, Devices & Systems**  
Volume: 11 Issue: 4  
*7 2017*

**IET Electric Power Applications**  
Volume: 11 Issue: 8  
*9 2017*


 **Most Popular**

**Internet of Things for Smart Cities**  
Andrea Zanella; Nicola Bui; Angelo Castellani; Lorenzo Vangelista ...  
*Feb. 2014*

**The Internet of Things for Health Care: A Comprehensive Survey**  
S. M. Riazul Islam; Daehan Kwak; MD. Humaun Kabir; Mahmud Hossain ...  
*2015*

**A Survey of 5G Network: Architecture and Emerging Technologies**  
A. Gupta; R. K. Jha;  
*2015*

**High-Performance Extreme Learning Machines: A Complete Toolbox for Big Data Applications**  
Anton Akusok; Kaj-Mikael Björk; Yoan Miche; Amaury Lendasse

 **Popular Search Terms**

- power
- control
- network
- antenna
- communication
- LTE
- image
- security
- wireless

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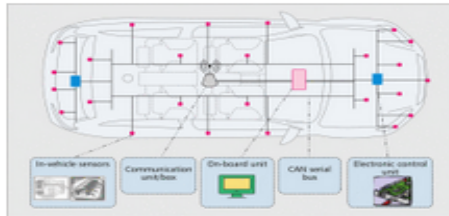
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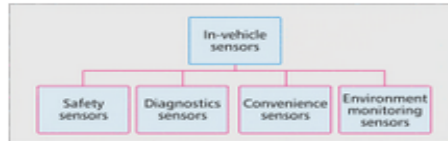
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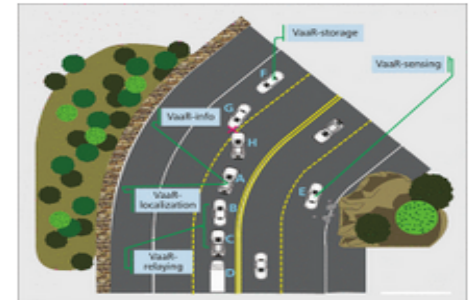
In-vehicle components shaping the intelligent vehicle.

Figure 2.



Categories of in-vehicle sensors.

Figure 3.



Illustrative scenario showing the viability of VaaR. Vehicles G and H had an accident and vehicles F, A, B, and C work as resource providers while being in the vicinity of the emergency situation. Vehicle E as well works as a resource after detecting falling rocks on its way.

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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.



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cloud computing

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☐ **Security threats in cloud computing**  
Shaikh, F.B.; Haider, S.  
Internet Technology and Secured Transactions (ITST), 2011 International Conference for  
Year: 2011  
Pages: 214 - 219  
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The screenshot displays the IEEE HINTON platform interface. At the top, there's a navigation bar with tabs: Abstract, Authors, Figures, Multimedia, References, Cited By, and Keywords. The 'Abstract' tab is selected. Below the navigation bar, the document title 'Security threats in cloud computing' is shown. The main content area displays the abstract text, which discusses cloud computing services and security threats. A 'SECTION 1. Introduction' header is visible, followed by a 'JUMP' button with a dropdown arrow. To the right of the main text, there's a vertical sidebar with buttons for 'Quick Preview', 'Figures', 'Full Text', 'Footnotes', 'References', 'Authors', 'Cited By', 'Keywords', and 'Corrections'. The 'Quick Preview' button is highlighted. At the bottom of the main text area, there's a footer note: 'This paper appears in: Internet T Conference for , Issue Date: 11-1'. Below this, it says '©2011 IEEE'.



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## SECTION III

### OCEANOGRAPHY SCIENCE AND APPLICATIONS

#### A. Previous Work and Limitations of F

Satellite altimetry measurements of ocean surface the 1980s: Seasat, Geosat, ERS-1, ERS-2, TOPEX/Jason-2. These measurements have led to dramatic of oceanography [33]. For instance, the TOPEX/P demonstrated an average rise of global sea level of TOPEX/Poseidon OST measurements level and their relations to the heat stor TOPEX/Poseidon were used to study th event in historical context [36]. Because between the OST variability and the ph OST measurements into ocean circulati global ocean circulation patterns [38]. ( scientific predictive capabilities. For in

JUMP

I. Introduction

II. Hydrology Science and Applications

III. Oceanography Science and Applications

IV. Swot Ka-Band Radar Interferometer (Karin)

V. Conclusion

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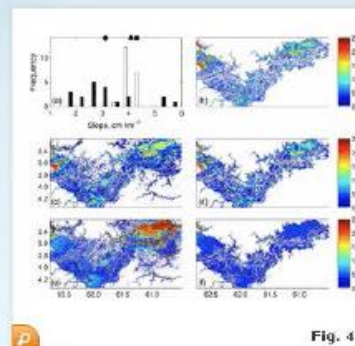


Fig. 4.

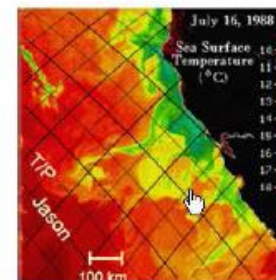


Fig. 5. Sea surface temperature from the AVHRR instrument. Tracks from the Topex/Poseidon and Jason radar altimeters are also shown.

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Fig. 6.

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Abstract

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## Search Algorithms for Regression Test Case Prioritization

Regression testing is an expensive, but important, process. Unfortunately, there may be insufficient resources to allow for the reexecution of all test cases during regression testing. In this situation, test case prioritization techniques aim to improve the effectiveness of regression testing by ordering the test cases so that the most beneficial are executed first. Previous work on regression test case prioritization has focused on greedy algorithms. However, it is known that these algorithms may produce suboptimal results because they may construct results that denote only local minima within the search space. By contrast, metaheuristic and evolutionary search algorithms aim to avoid such problems. This paper presents results from an empirical study of the application of several greedy, metaheuristic, and evolutionary search algorithms to six programs, ranging from 374 to 11,148 lines of code for three choices of fitness metric. The paper addresses the problems of choice of fitness metric, characterization of landscape modality, and determination of the most suitable search technique to apply. The empirical results replicate previous results concerning greedy algorithms. They shed light on the nature of the regression testing search space, indicating that it is multimodal. The results also show that genetic algorithms perform well, although greedy approaches are surprisingly effective, given the multimodal nature of the landscape

This paper appears in: [Software Engineering](#), [IEEE Transactions on](#), Issue Date: [April 2007](#), Written by: [Li, Zheng](#); [Harman, Mark](#); [Hierons, Robert M.](#)

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Zheng Li

Zheng Li received the degree in computer science in 2004 from the Beijing University of Chemical Technology, China, where he also worked from 1996-2004. In 2005, he joined the software engineering group in the Department of Computer Science at King's College London. Currently, he is a research associate and PhD student, working on the EPSRC project ConTRACTs. His present research interests include search-based ...

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Mark Harman

Mark Harman is a professor of software engineering and the head of the Software Engineering Group in the Department of Computer Science, at King's College London, where he also directs the work of the Centre for Research on Evolution, Search and Technology (CREST). He has worked extensively on program slicing, transformation, and testing and more recently, he was instrumental in founding the field ...

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Robert M. Hierons

Robert M. Hierons received the BA degree in mathematics (Trinity College, Cambridge) and the PhD degree in computer science (Brunel University). He then joined the Department of Mathematical and Computing Sciences at Goldsmiths College, University of London, before returning to Brunel University in 2000. He was promoted to full professor in 2003.

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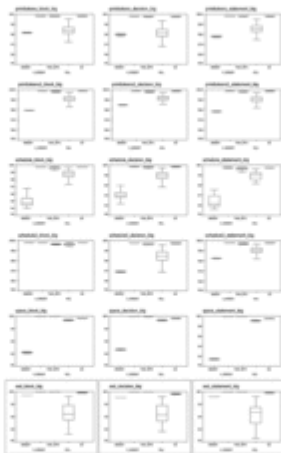
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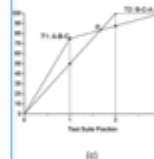
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**Fig. 4.** Boxplots of APBC, APDC, and APSC for all programs with large test suites (vertical axis is AP\* C score) by program and coverage criteria.

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**Fig. 5.**



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## SECTION 1 Introduction

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Regression testing is a frequently applied but expensive maintenance process that aims to (re)verify modified software. Many approaches for improving the regression testing processes have been investigated. Test case prioritization [17] [18] [22] is one of these

18. G. Rothermel, R. Untch, C. Chu, M.J. Harrold,  
"Prioritizing Test Cases for Regression Testing", IEEE  
Trans. Software Eng., no.10, pp.929-948, Oct, 2001

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with highest priority,  
ted first.

blem and describe several  
problem is defined (by

### The Test Case Prioritization Problem.

Given:  $T$ , a test suite;  $PT$ , the set of permutations of  $T$ ;  $f$ , a function from  $PT$  to the real numbers.

Problem: Find  $T' \in PT$  such that

$$(\forall T'' (T'' \in PT) (T'' \neq T') [f(T') \geq (T'')]).$$

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Sang-Ho Na; Jun-Young Park; Eui-Nam Huh  
2010 IEEE Asia-Pacific Services Computing Conference  
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Walker, James

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Systems, methods, and computer-readable media for wrapping an application with field-programmable business logic to load application code of a mobile application. Subsequently, the computing device may modify the application code to wrap the application with an application wrapper that is configured to manage execution of the application based on one or more policy files and configured to intercept one or more functions of the application code, where the one or more policy files each define one or more access controls that are enforced by a device management system on one or more user devices. Subsequently, the computing device may create a library file comprising field-programmable business logic defining implementation code linked to one or more of the functions intercepted by the wrapper. The computing device may then provide the wrapped application and the library file to at least one user device.

United States Patent

Walker

## Assignee:

CITRIX SYSTEMS INC

## Filing Date:

27 March 2015

## Grant Date:

28 March 2017

## Wrapping an application with field-programmable business logic

### Abstract

Systems, methods, and computer-readable media for wrapping an application with field-programmable business logic are presented. In some embodiments, a computing device may load application code of a mobile application. Subsequently, the computing device may modify the application code to wrap the application with an application wrapper that is configured to manage execution of the application based on one or more policy files and configured to intercept one or more functions of the application code, where the one or more policy files each define one or more access controls that are enforced by a device management system on one or more user devices. Subsequently, the computing device may create a library file comprising field-programmable business logic defining implementation code linked to one or more of the functions intercepted by the wrapper. The computing device may then provide the wrapped application and the library file to at least one user device.

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Other versions: US20160283198A1 (Application)

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- ☐ F. C. Lee (566)
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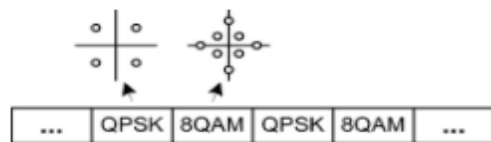
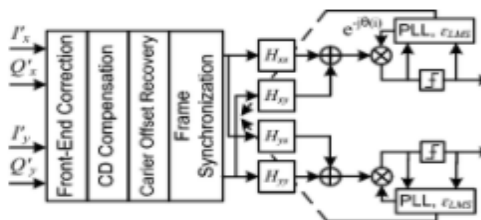


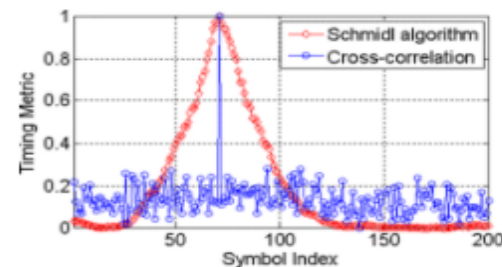
Illustration of the TDHQ frames with QPSK&amp;8QAM(1, 1).

Fig. 2.



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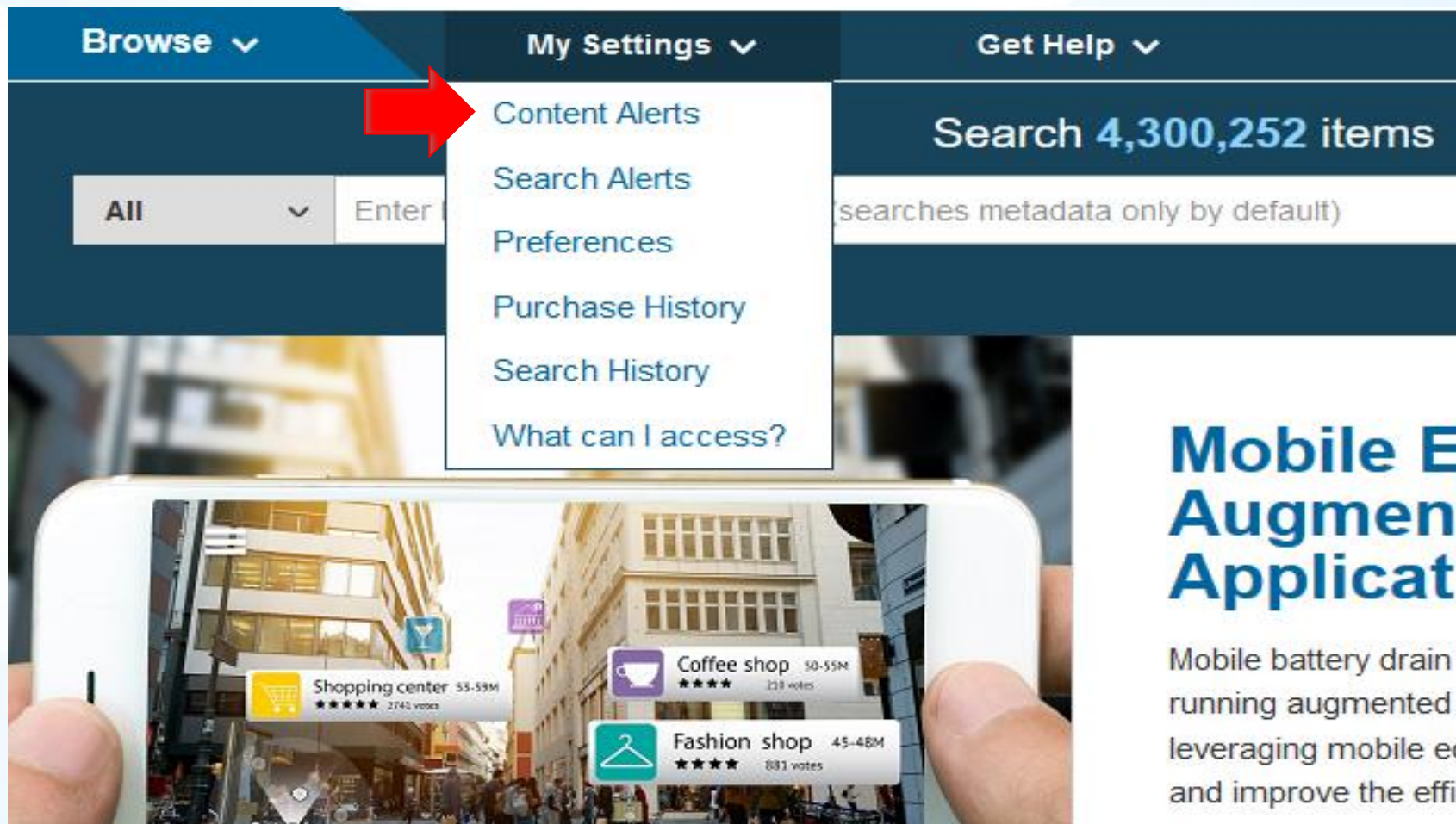
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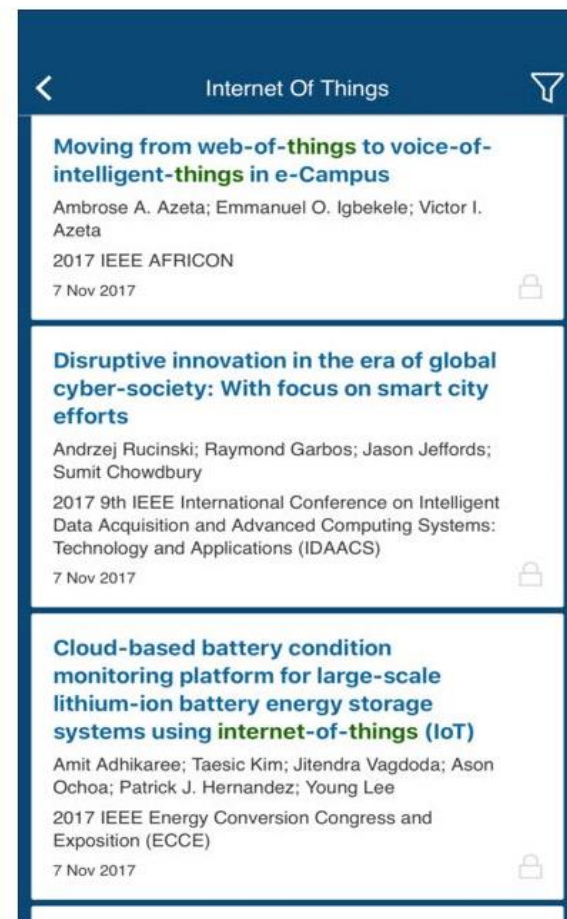
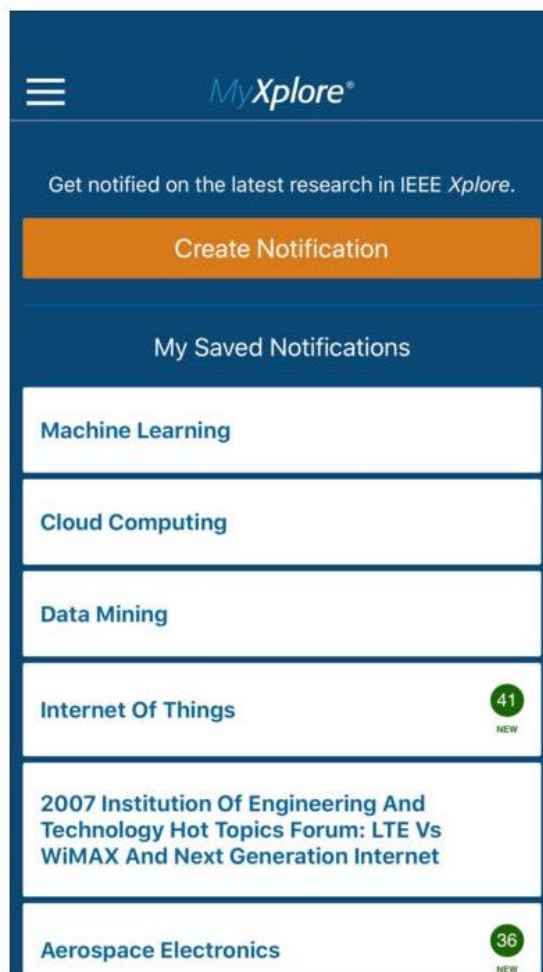
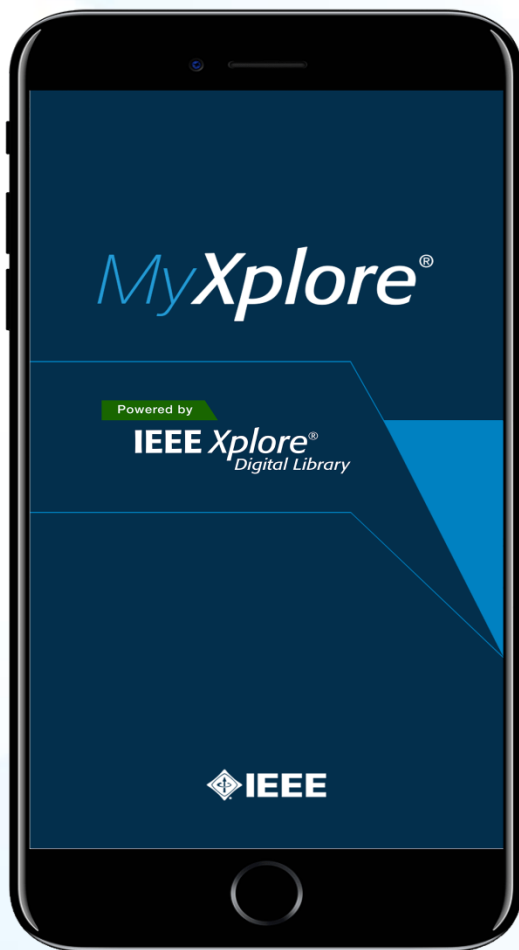
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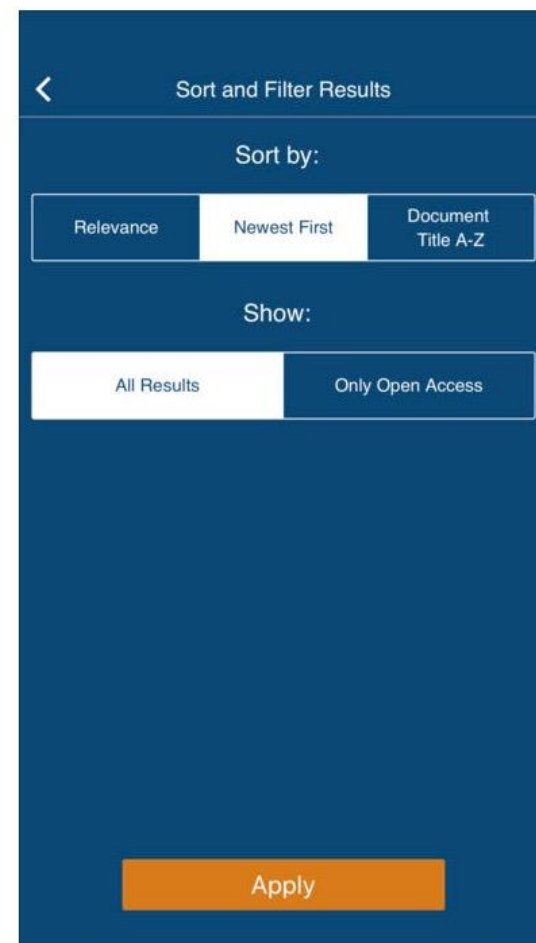
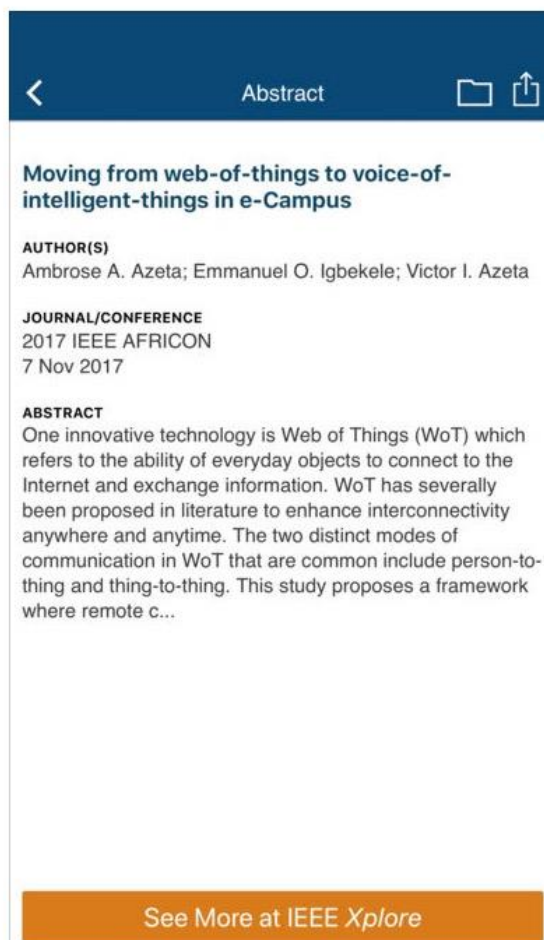
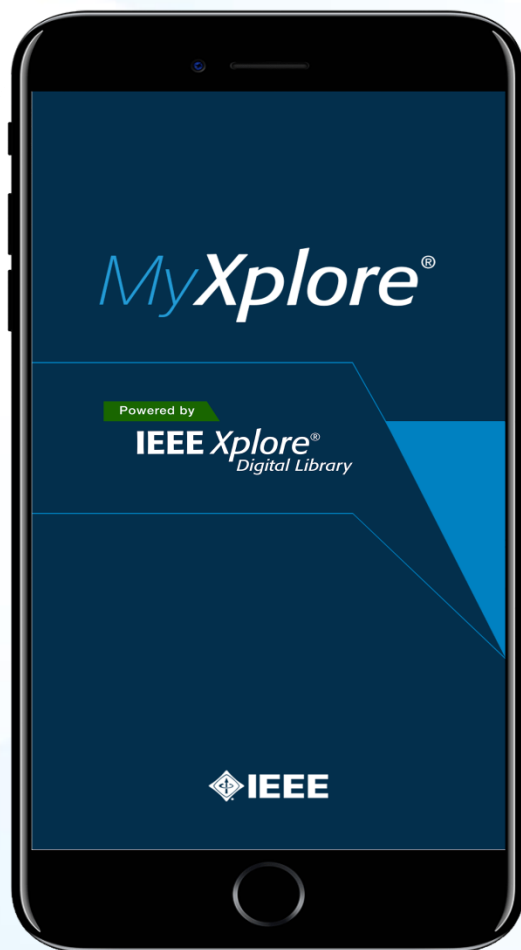


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