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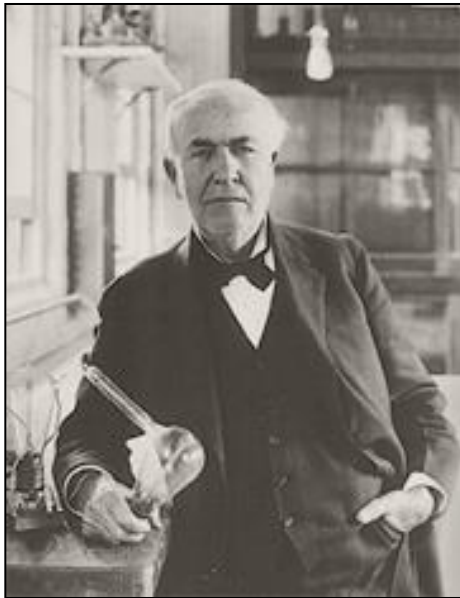
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# 協會前身之一：美國電子工程師協會

Founding officers of The American Institute of Electrical Engineers (AIEE) in 1884



**Thomas A. Edison**



**Alexander Graham Bell**

# 協會前身之二：無線電工程師協會

Founding member of The Institute of Radio Engineers (*IRE*) in 1912:



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**Report of Titanic**

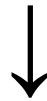
**1963**



**The American Institute of  
Electrical Engineers (AIEE)**



**The Institute of Radio  
Engineers (IRE)**



**The Institute of Electrical and  
Electronics Engineers = IEEE**

# TODAY'S IEEE



# 關於IEEE



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(Institute of Electrical and Electronic Engineers)

**IET 英國電機工程師學會**

(Institute of Engineering and Technology)

世界上備受推崇及敬重的學會研究機構  
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3 of the top 5 journals in Automation & Control Systems

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#1 in CS, Software Engineering

#1 & #2 in Robotics

#2 in CS, Cybernetics

#4 in Ocean Engineering



The ISI JCR presents “quantifiable statistical data that provides a systematic, objective way to evaluate the world’s leading journals”

(2009 report released June 2010)

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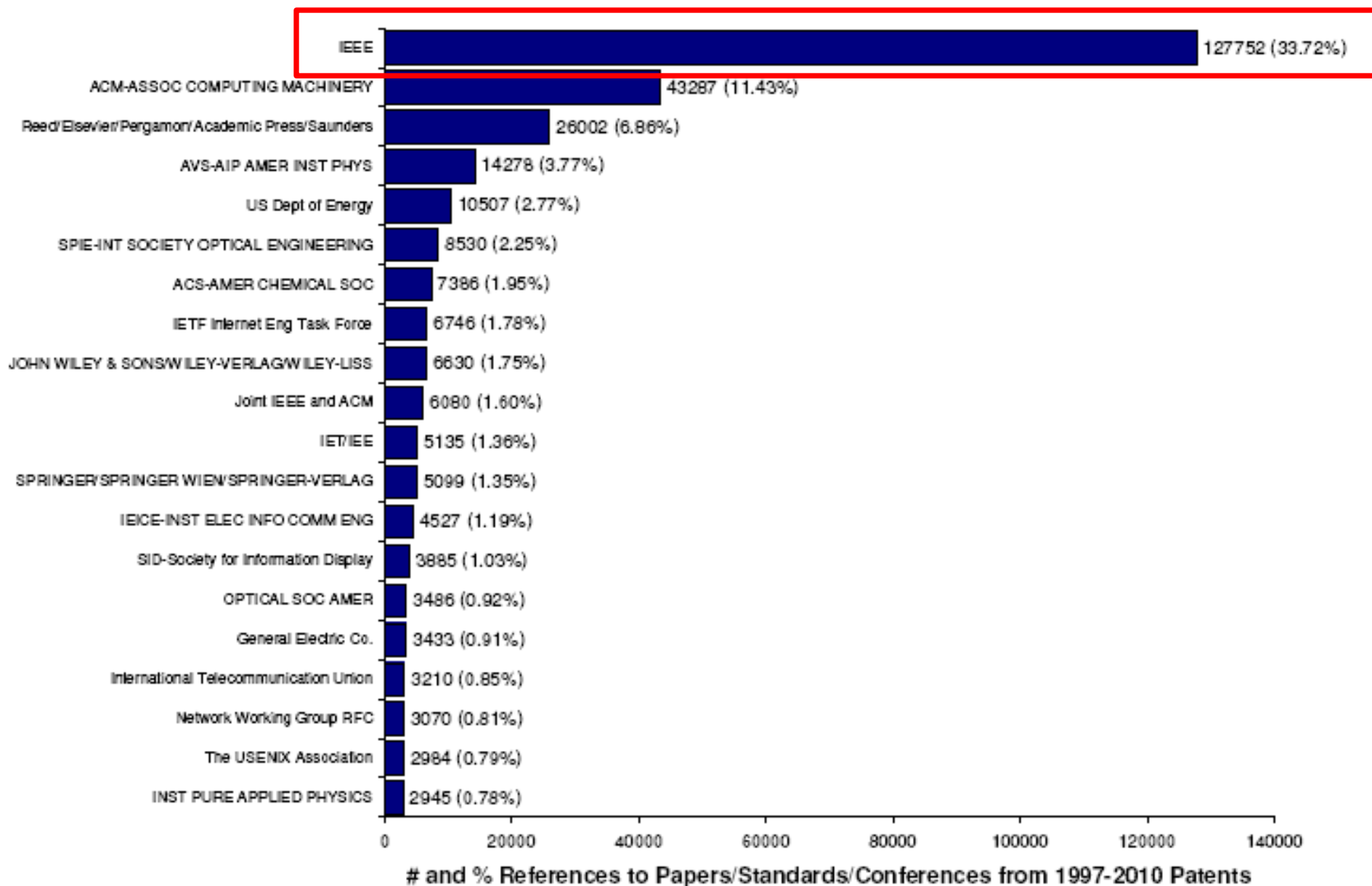
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VDE 會議論文

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- IEEE Journal of Emerging and Selected Topics in Power Electronics
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# 2011新增VDE會議記錄

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- 來自20多種 VDE VERLAG 會議的3,100份論文
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VDE



# IEEE Standard - IEEE 技術標準

IEEE 技術標準組織成立於1884年，引領著全球技術標準的發展，涵蓋領域包括:電信、資訊科技及動力能源。

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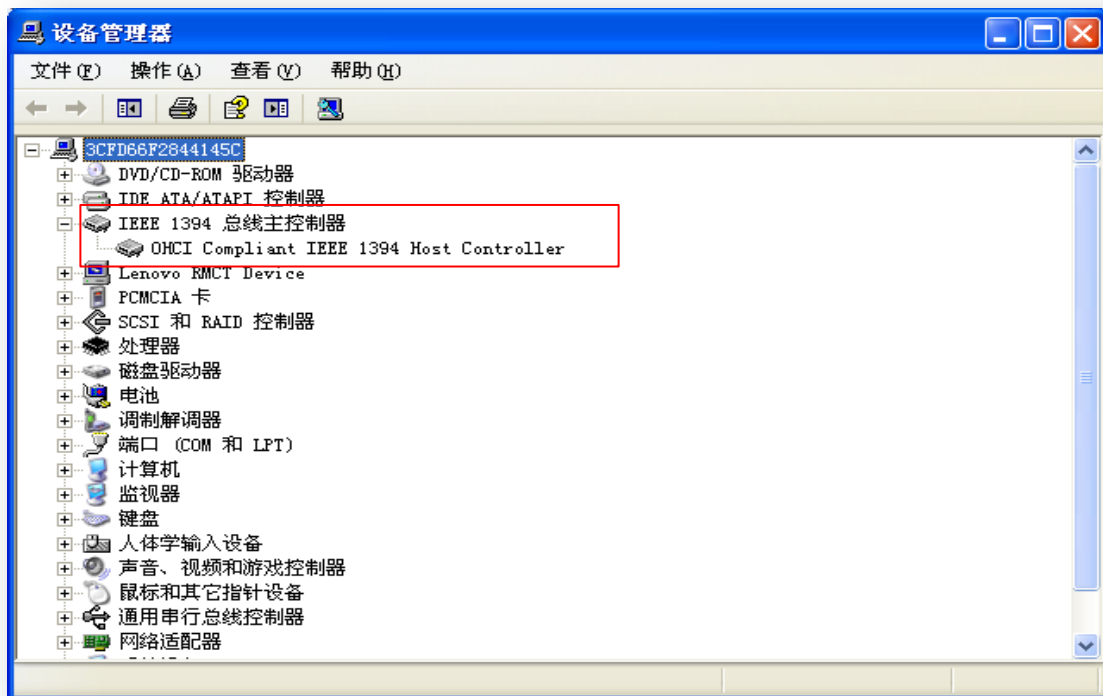
IEEE 802.3 — 乙太網路

IEEE 802.11 — 無線網路

IEEE 802.16 — 寬頻無線接取

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參與IEEE標準的台灣企業會員有

仁寶電子、華得、英業達、廣達、旭電及偉創資通等。

# 台灣參與的IEEE標準

- IEEE 802.16 Broadband Wireless Access Standard  
IEEE無線寬頻存取標準

- 台灣大學
- 淡江大學
- 宜蘭大學
- 工研院
- 聯發科
- 資策會

- IEEE 802.11 Wireless Local Area Networks (WLAN) Standard  
IEEE無線區域網通用標準

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- 宏達電
- 雷凌科技
- 聯發科
- 國立台灣大學

# IBM Journal of Research and Development

## IBM 期刊

### IBM專業期刊資源

- IBM Journal of Research and Development(1957至今)
- IBM Systems Journal (1962~2008)
- IBM Systems Journal 2009年併入IBM Journal of Research and Development
- 電腦科學、硬體和結構等領域引用度第三高的期刊 ( ISI JCR 2009 )
- 被電腦軟硬體相關專利引用超過3,400次的研究文獻  
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**Simplified analysis of PWM converters using model of PWM switch. Continuous conduction mode**

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# Multiple Signal Detection Digital Wideband Receiver using Hardware Accelerators

KIRAN GEORGE

California State University

CHIEN-IN HENRY CHEN

Wright State University

A three gigasample per second (GSPS) digital wideband receiver that operates in a 1.25-GHz instantaneous bandwidth (IBW) is proposed. In addition to building such systems, offloading of computation-intensive tasks to a combination of specialized hardware accelerators such as graphics processing units (GPUs) and field-programmable gate arrays (FPGAs) to increase the overall receiver's dynamic performance is analyzed. The receiver detects up to 15 signals with a maximum attainable instantaneous dynamic range (IDR) of 62.5 dB before the next set of data arrives for processing.

## I. INTRODUCTION

A modern radar receiver is required to intercept radio frequency (RF) signals and rapidly search a large frequency range with maximum sensitivity in real time to identify and locate the source. Furthermore, detection of incoming signals of any modulation, carrier frequency, and bandwidth is central to the working of a modern radar receiver, unlike the narrowband communication receivers, which are usually designated for known signals.

Unlike most radar receivers in the past that were designed using analog technology, digital radar receivers down convert the input RF signals to intermediate frequency (IF) signals and digitize them using high-speed analog-to-digital converters (ADCs) to retain all data information so as to produce better results than the analog counterpart [1]. Furthermore, the performance of digital receivers are superior in comparison to the conventional analog approach due to advantages such as 1) the ability to extract more signal information in the digital approach, 2) the ability to store digital data for long periods, and 3) the ability to use more advanced and flexible signal processing techniques for a digitized signal. The use of digital channelization techniques allows for improving imbalance and mismatch between the filters, which is a main challenge as seen in development of analog receivers.

The ADC is a critical subsystem in the digital radar receiver, especially for receivers that use direct

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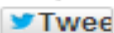
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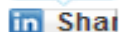
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The environmental performance criteria of the IEEE 1680 family of standards are intended to define a measure of environmental leadership in: the design and manufacture of ~~personal-computer~~ electronic products ~~that are marketed to institutions~~; 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.

## 1.4 Conformance with the IEEE 1680 family of standards

A manufacturer may designate one or more specific geographic regions, or countries, for which a product declaration is applicable. In order to ~~conform to this Standard~~ be conformant in a designated region or country, each unit of ~~a~~ the product that is sold in that region or country must satisfy all of the applicable

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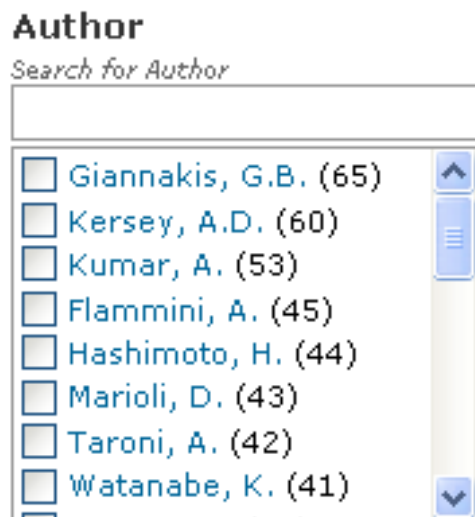
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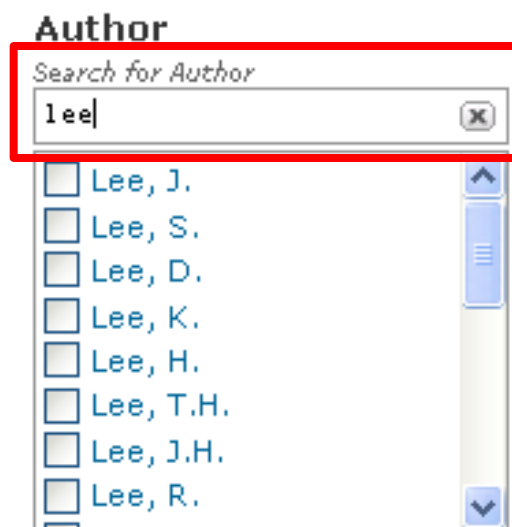
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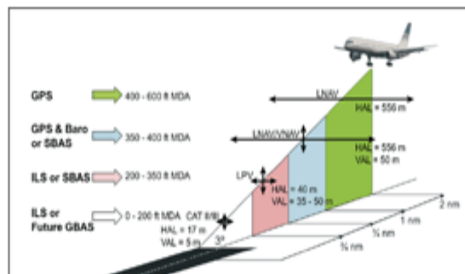


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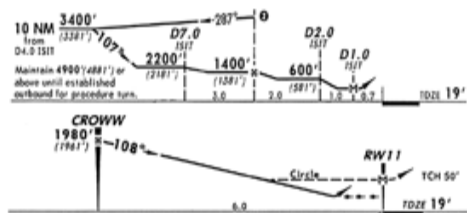


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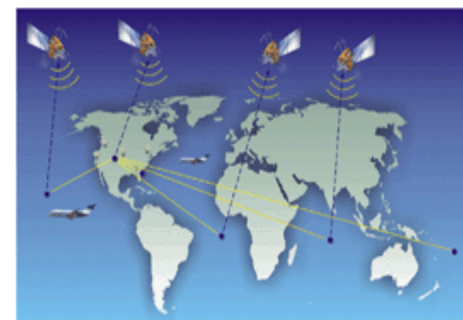


Fig. 3.

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For aircraft navigation, fault detection and isolation is paramount. Faults that may cause HMI must be noticed and mitigated in real-time. The operation of GPS has been very reliable and clearly reflects the extraordinary skill of the Air Force personnel that operate and maintain GPS. However, faults have occurred. Some are man-made and others are due to Mother Nature.

For example, the navigation data broadcast by the GPS satellites occasionally contain significant errors. As shown in Fig. 3, the GPS satellites are monitored by a relatively sparse ground control network (five stations are shown in Fig. 3 but eight new stations have been recently added [5]). Measurements at the ground stations are used to predict the orbit of the GPS satellites. These predictions are uploaded to the satellite and broadcast to the users. Generally, this estimated orbit is within 1 or 2 m of the true orbit [6]. However, the broadcast

6. Broadcast vs. precise GPS ephemerides: A historical perspective

D. L. M. Warren, J. F. Raquet

*GPS Solutions*, Vol. 7, issue (3), 2003-12

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made longer for these architectures as the ground monitoring is no longer responsible for meeting the 6.2 s TTA on its own.

Continuity requires that the above requirements be met continuously for the duration of the approach. Given that the above requirements are met at the initiation of the approach, the probability that one of them will be exceeded must be at or below  $8 \times 10^{-6}$  per 15 second interval [18], [24].

Availability is the fraction of time that all above requirements are met. For the system to be useful, it must be available at least 99% of the time at any location where LPV-200 service is authorized [18], [24]. For scheduled service, it may need to be available for even greater percentages of time (between 99.9% and 99.999%).

All of the architectures considered for this paper rely on dual frequency ranging measurements. The L1 and L5 signals are combined in a way to eliminate the first-order ionospheric delay [25]. Unfortunately, this combination increases the impact of measurement noise and multipath. The measurement noise term for the  $j$ th satellite can be described as normally distributed with zero mean and variance

$$\sigma_{j,DF\_air}^2 = \left( \frac{f_1^2}{f_1^2 - f_5^2} \right)^2 \sigma_{L1,j,air}^2 + \left( \frac{f_5^2}{f_1^2 - f_5^2} \right)^2 \sigma_{L5,j,air}^2 \quad (1)$$



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$$\sigma_{j,DF\_air}^2 = \left( \frac{f_1^2}{f_1^2 - f_5^2} \right)^2 \sigma_{L1,j,air}^2 + \left( \frac{f_5^2}{f_1^2 - f_5^2} \right)^2 \sigma_{L5,j,air}^2 \quad \text{eqno}\{\hbox{(1)}\}$$
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Yoon, Yeo-Sun; **Kaplan, Lance M.**; McClellan, James H.  
Sensor Array and Multichannel Signal Processing Workshop Proceedings, 2002  
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AND  in

AND  in

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Data Fields  Operators

AND  
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There is a maximum of 15 search terms.



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Data Fields  Operators

`computer NEAR/3 "embeded system"`

**SEARCH GUIDELINES**

Operators need to be in all caps – i.e. AND/OR/NOT/NEAR.

Asterisk wildcards cannot be used within quotes or with the NEAR/ONEAR operators.

There is a maximum of 15 search terms.

解釋:

A NEAR/3 B:檢索結果A和B的辭語距離於3個字內(A可出現於B之前或後)

A ONEAR/3 B:檢索結果A和B的辭語距離於3個字內,且A只出現於B之前

使用雙引號 " " 會將此搜索單字或辭語限定為固定搜索結果

# Tips 檢索技巧 說明

## Search #1: **database AND query NEAR/3 optimiz\*** 無法顯示搜尋結果

- Wildcard(\*)無法與proximity searches (NEAR/ONEAR)一起使用
- 只有在命令檢索中才能使 proximity searches
- 以下為命令檢索建議搜尋方式：

database AND ((query NEAR/3 optimize) OR (query NEAR/3 optimization))

Note: optimize will pick up optimize, optimizes, optimized, and optimizing. It will also pick up British spelling variations (optimize picks up optimise, optimises, etc.)

## Search #2: **database AND "query optimi\*"**無法顯示搜尋結果

- Wildcard(\*)無法與雙引號一起使用
- 結合雙引號和OR運算符號來搜尋所有可能的結果

"query optimize" OR "query optimizing" OR "query optimization"

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1988  2012

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Gupta, R. (?)

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Results per Page  Showing 1 - 25 of 42 results [Next >](#)

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[Design and Implementation of Embedded SNMP Network Management Manager in Web-Based Mode](#)


Xinyi Wu; Yong Zhu; Xiaolong Deng;  
[Asia-Pacific Services Computing Conference, 2008. APSCC '08. IEEE.](#)  
Digital Object Identifier: [10.1109/APSCC.2008.151](#)  
Publication Year: 2008 , Page(s): 1512 - 1516

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| Full Text: [PDF \(314 KB\)](#)

With the rapid development of **computer technology**, the **embedded system** has widely applied in many industrial fields. And these applications made it possible that the traditional personal-computer central pattern of computer transferred into the embedded-device central pattern. Nowadays, embedding Web-based SNMP manager into embedded devices is a hotspot of network management study with great significance. In this paper, we present the architecture of embedded network management based on SNMP agent and Web mode in Linux. It will enforce the abundant functions of network management in SNMP mode and expand the application scope of embedded-device in limited resource. Then we also draw a conclusion of critical research technology and developing policy

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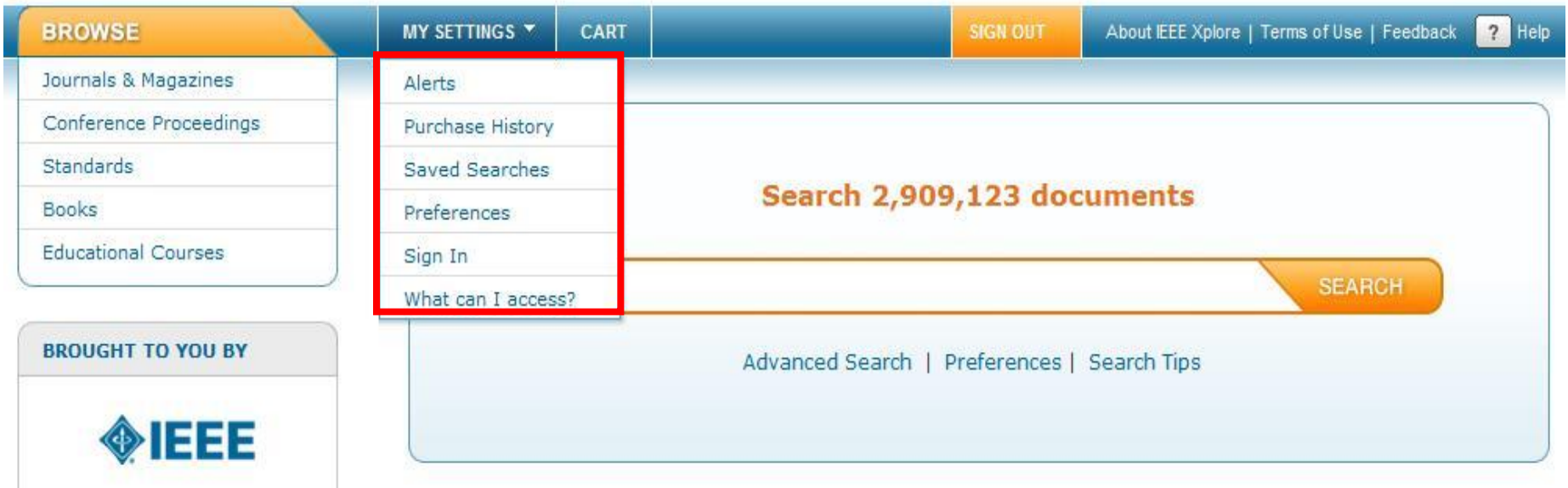
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Joe-Ming Chang, Fan-Gang Tseng, Ching-Chang Cheng

NanoBioscience, IEEE Transactions on

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- › IEEE Std 1500-2005 IDAMS 3.5 test
- › IEEE P11073-10441/D09, August 2012
- › IEEE P1149.1/D2012.e27, September 2012
- › ISO/IEC/IEEE P29119-1/DIS, September 2012

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- › Robotics; Proceedings of ROBOTIK 2012; 7th German Conference on
- › Acoustic Signal Enhancement; Proceedings of IWAENC 2012; International Workshop on
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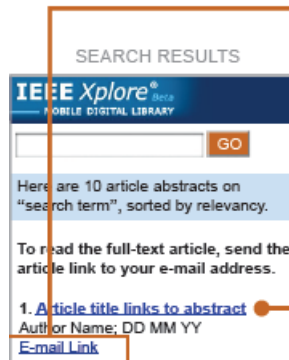
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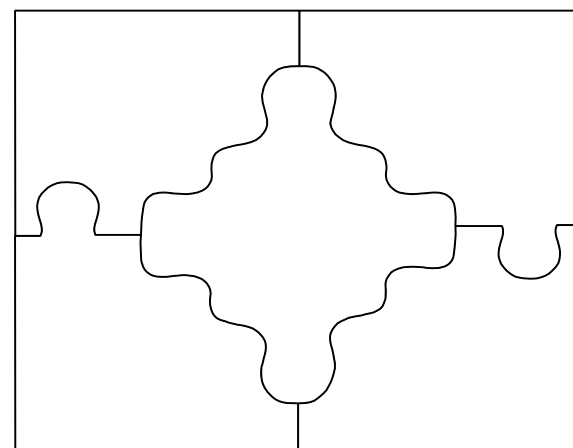
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- » [IEEE Dielectrics and Electrical Insulation Society Graduate Student Fellowship](#)
- » [IEEE Electron Devices Society Graduate Student Fellowship](#)
- » [IEEE Photonics Society Graduate Student Fellowship Program](#)
- » [IEEE Life Members' Fellowship in Electrical History](#)
- » [IEEE Life Member Graduate Study Fellowship](#)
- » [IEEE Microwave Theory and Techniques Society Graduate Fellowships](#)
- » [IEEE Computational Intelligence Society Conference Travel Grants](#)
- » [IEEE Computational Intelligence Society Summer Research Grant](#)
- » [IEEE Nuclear and Plasma Sciences Society Graduate Scholarship Award](#)
- » [IEEE Solid-State Circuits Society Pre-Doctoral Fellowship](#)

# 參與 IEEE Standard Mini-Grant

- IEEE 提供Mini-grants 給予大學生及研究生的獎勵活動。
- 獎學金金額 **US\$500** 給予參與學生, 另同時提供獎金給予指導者。
- 學生在開始設計或開發一個工業標準時, 必須提交一份簡介, 描述專案的目標。如學生的建構藍圖等。

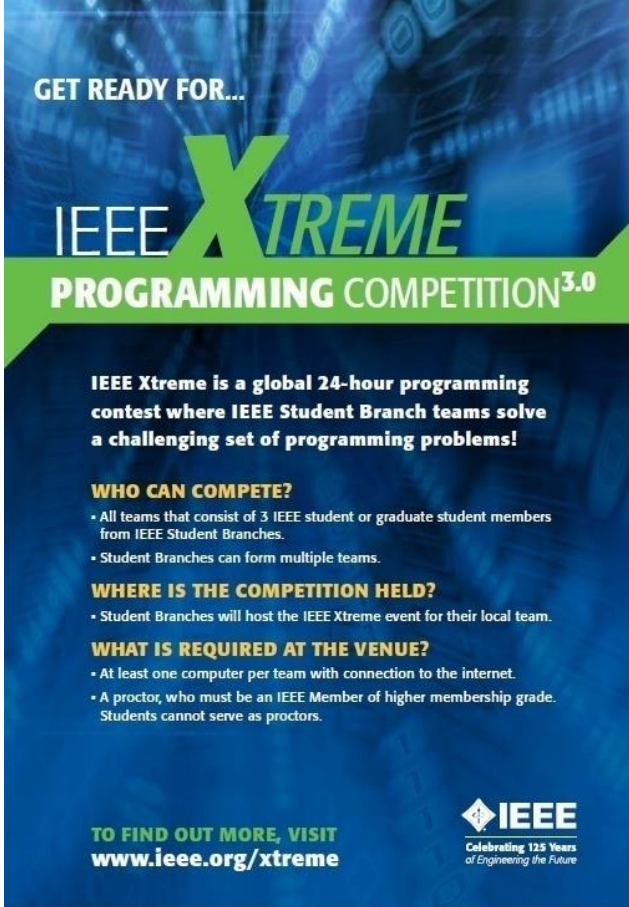


[http://www.ieee.org/education\\_careers/education/standards/applications.html](http://www.ieee.org/education_careers/education/standards/applications.html)



# IEEE Xtreme Programming Competition

- What is it?
  - IEEE*Xtreme* is a worldwide contest in which teams of students compete over a 24-hour time span against each other to solve a set of programming problems
- Who participates?
  - Teams of 2-3 students/graduate students and their proctors
- Why is it unique?
  - Worldwide, simultaneous!
  - International bragging rights
  - **Top prize is a trip anywhere in the world to the IEEE event of the top team's choice**



GET READY FOR...

## IEEE **X**TREME

### PROGRAMMING COMPETITION<sup>3.0</sup>

**IEEE Xtreme is a global 24-hour programming contest where IEEE Student Branch teams solve a challenging set of programming problems!**

**WHO CAN COMPETE?**

- All teams that consist of 3 IEEE student or graduate student members from IEEE Student Branches.
- Student Branches can form multiple teams.


**WHERE IS THE COMPETITION HELD?**

- Student Branches will host the IEEE Xtreme event for their local team.

**WHAT IS REQUIRED AT THE VENUE?**

- At least one computer per team with connection to the internet.
- A proctor, who must be an IEEE Member of higher membership grade. Students cannot serve as proctors.

TO FIND OUT MORE, VISIT  
[www.ieee.org/xtreme](http://www.ieee.org/xtreme)

 **IEEE**  
Celebrating 125 Years  
of Engineering the Future

# IEEE President's Change the World Competition



- Global Student Contest
- The goal: identify a real-world problem and apply engineering, science, computing and leadership skills to solve it.
- 2011 winners will be presented at IEEE Medal of Honor Ceremony: **UK Imperial College London, Hamayun (lead). Topic: Full-Scaled National Electric Grid.**

## WHAT COULD I WIN?

IEEE Student Humanitarian Supreme	US\$10,000
IEEE Distinguished Student Humanitarian	5,000
IEEE Exceptional Student Humanitarian	2,500
Up to five Outstanding Student Humanitarian prizes	1,000

The screenshot shows the website's header with the IEEE logo and the title 'Presidents' Change the World Competition'. Below the header are navigation tabs for 'Home', 'Past Winners', and 'Submission'. The main content area features a photograph of three young people looking at a laptop, with a globe of the Earth in the background. The text reads: 'Can You Change the World? Show us how and you could win US\$10,000'. At the bottom, there is a blue banner with the text: 'IEEE Presidents' Change the World Competition' and 'The 2011 IEEE Presidents' Change the World competition registration is now open. See the official rules for more details.'

<http://www.ieee125.org/change-the-world/index.html>



# IEEE 免費線上英文講座

- Spectrum免費講座，涉及最新科技：  
<http://spectrum.ieee.org/webinar/>
- Communication Society免費講座，涉及通信領域熱點技術：  
<http://www.comsoc.org/webinars>
- GOLD社團免費講座，涉及職業發展，人文，科技等內容：  
[http://www.ieee.org/membership\\_services/membership/gold/events/index.html](http://www.ieee.org/membership_services/membership/gold/events/index.html)
- 加入志願者虛擬社團，獲得行業最新諮詢：  
<https://www.ieeecommunities.org/>



## Question? 問題與討論

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