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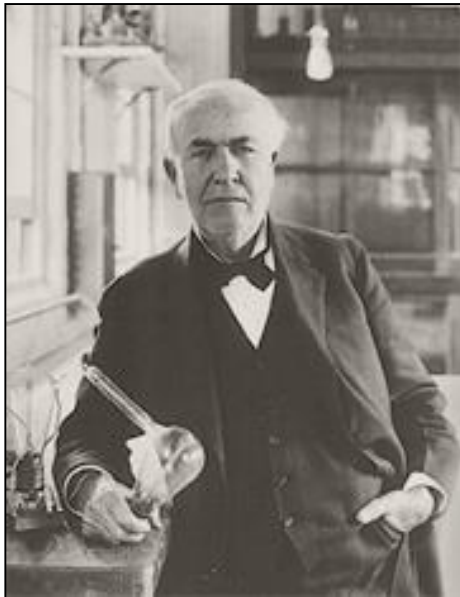
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Founding officers of The American Institute of Electrical Engineers (AIEE) in 1884



Thomas A. Edison



Alexander Graham Bell

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



Guglielmo Marconi



Report of Titanic

1963



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



**The Institute of Electrical and
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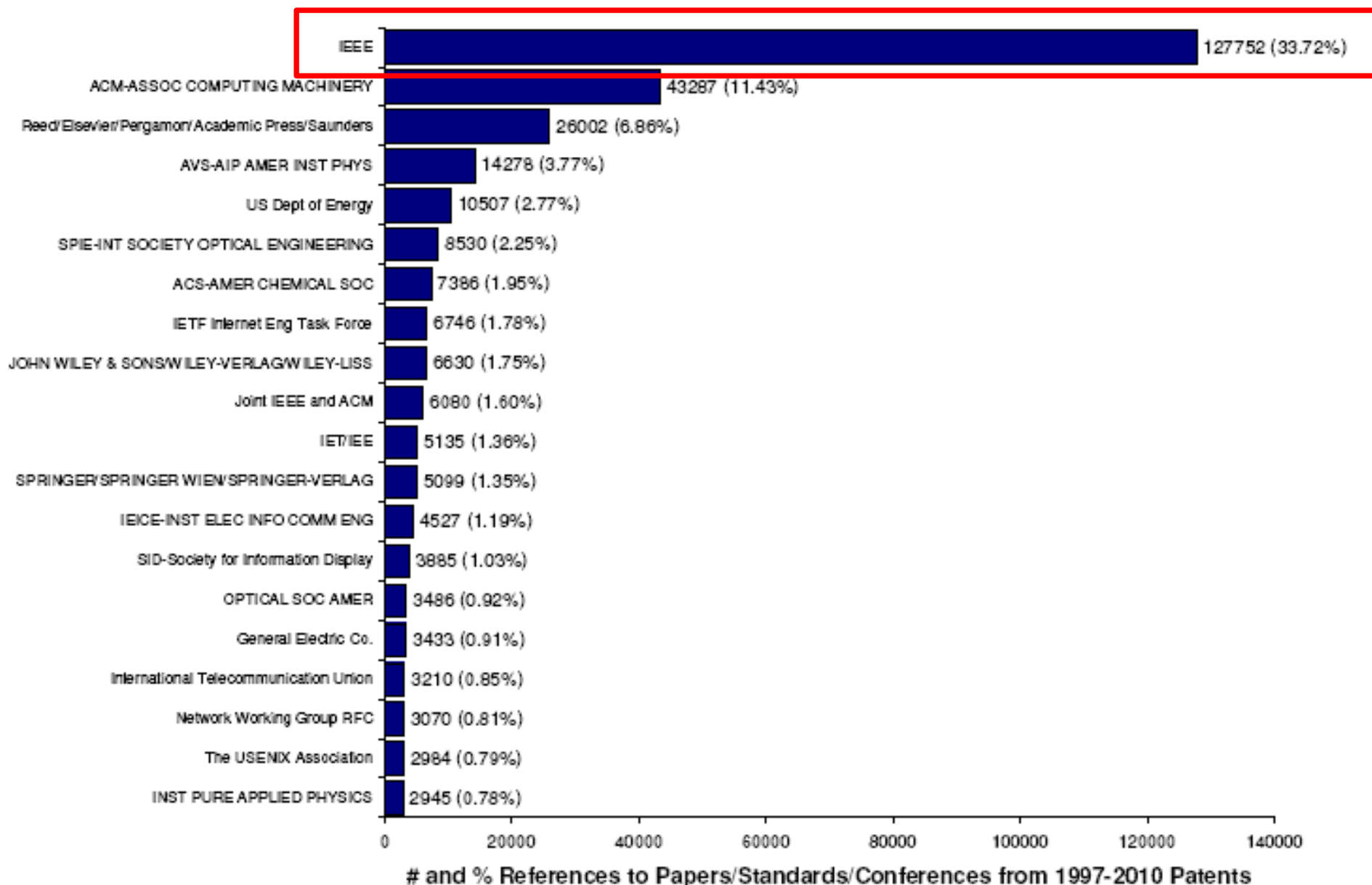
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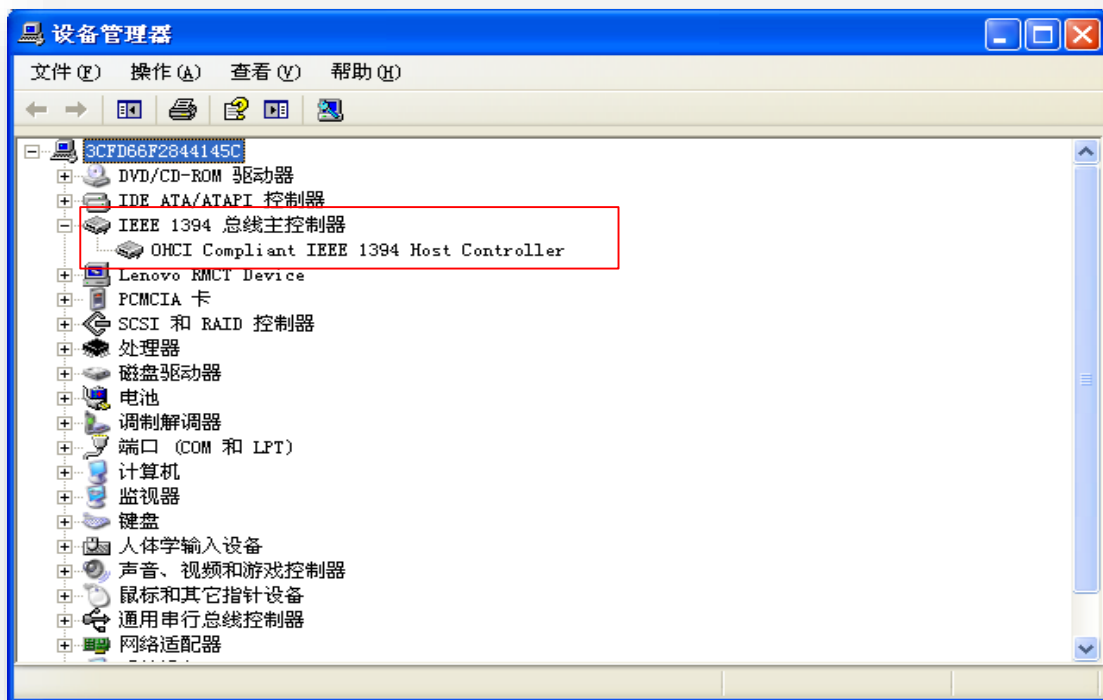
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IEEE 802.11 — 無線網路

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- IBM Journal of Research and Development(1957至今)
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A Novel Combined Beamformer Based on Hypercomplex Processes

四月-05
2013

Jian-Wu Tao ; Wen-Xiu Chang

Simplified analysis of PWM converters using model of PWM switch. Continuous conduction mode

八月-06
2002

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Funderburk, D.M.; Park, S.
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IEEE JOURNALS & MAGAZINES

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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Methods and Models in Automation and Robotics (MMAR), 2012 17th International Conference on

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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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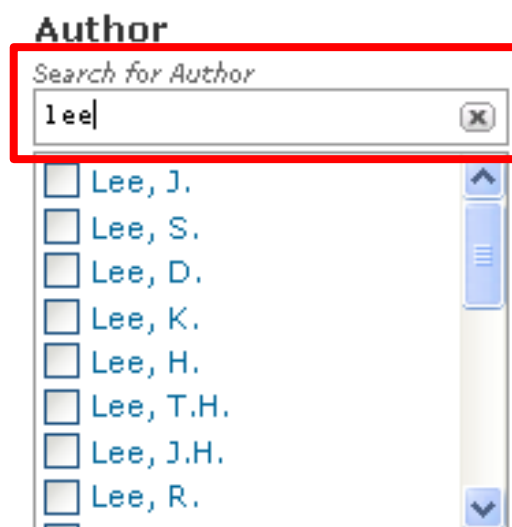
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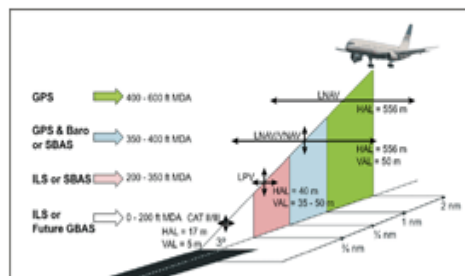


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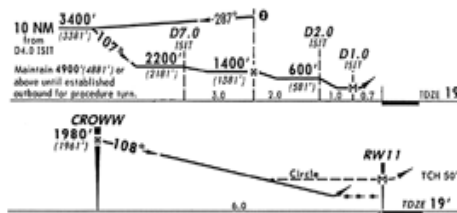


Fig. 2.



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 8×10^{-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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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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Gupta, R. (?)

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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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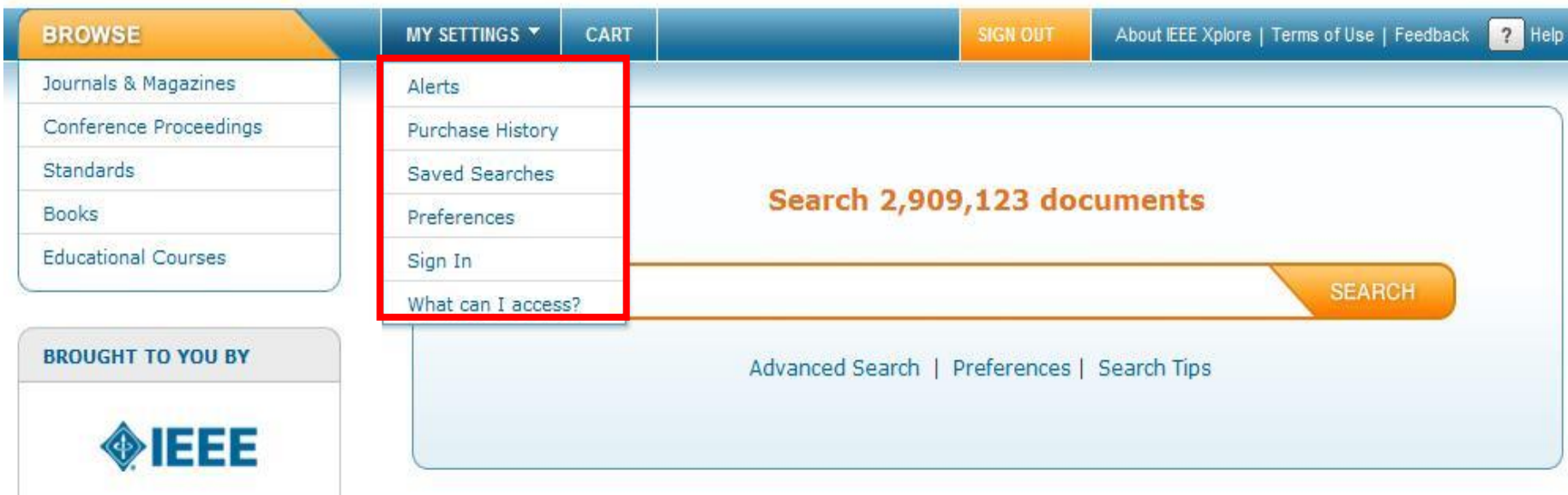
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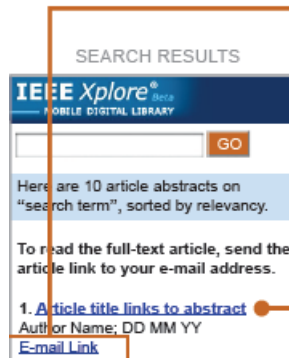
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半年	\$70.5	\$13.5

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- 代繳服務：正式會員請聯繫本地分會詢問是否提供代繳服務。
- IEEE全球網站 [Http://www.ieee.org/join](http://www.ieee.org/join)
- IEEE台北分會 [Http://www.ieee.org.tw](http://www.ieee.org.tw)

IEEE學生會員的獨享權益

獲得IEEE學生獎項（多項獎學金，論文大賽，各種競賽活動等）

獲得會議旅遊資助

參觀著名企業/科技機構實驗室

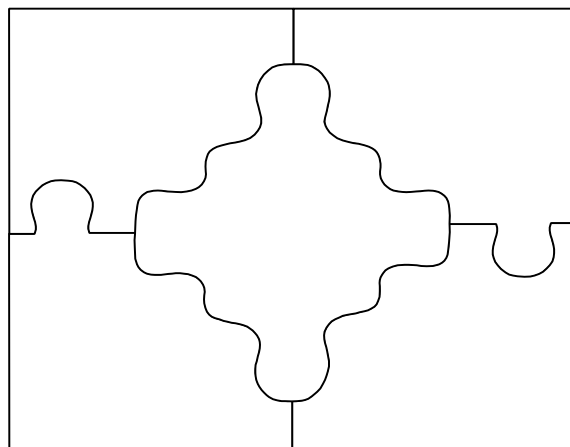
參與國際/國內學生分會間交流活動

免費參加各種學術交流活動

免費參加IEEE網上學生專題講座

免費參加職業發展主題活動，和企業會員面對面溝通

獲得志願者證書，提升職業能力



http://www.ieee.org/membership_services/membership/students/index.html

IEEE 學生獎學金和資助

IEEE每年向學生會員和學生分會提供多種形式的獎勵，包括：

- 學生獎勵
- 獎學金
- 學生分會獎勵
- 學生論文大賽

■ <http://www.ieee.org/membership/awards/index.html>

General awards for active IEEE Student members

- » [IEEE President's Change the World Competition](#)
- » [IEEE Student Enterprise Award](#)
- » [IEEE MGA Board Larry K. Wilson Regional Student Activities Award](#)
- » [IEEE Industry Applications Society Myron Zucker Travel program](#)

Graduate scholarships, fellowships, and awards

- » [IEEE Charles LeGeyt Fortescue Fellowship](#)
- » [IEEE Components, Packaging, and Manufacturing Technology Society -- Graduate Fellowship for Research on Electronic Packaging](#)
- » [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。

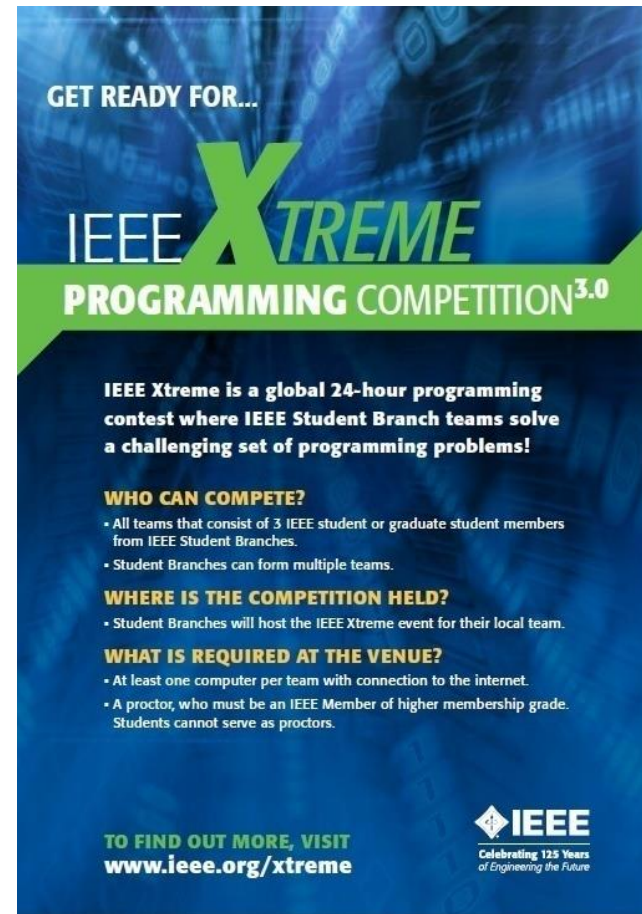


http://www.ieee.org/education_careers/education/standards/applications.html



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^{3.0}

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

 **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 for the IEEE Presidents' Change the World Competition. At the top, the IEEE logo is followed by the text "Presidents' Change the World Competition". Below this is a navigation menu with three buttons: "Home", "Past Winners", and "Submission". The main content area features a large image of three young people (two men and one woman) looking intently at a computer screen. To the right of the image is a partial view of the Earth from space. Below the image, the text reads "Can You Change the World? Show us how and you could win US\$10,000". At the bottom of the page, there is a blue banner with the text "IEEE Presidents' Change the World Competition" and a smaller line of text: "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
- 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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