

IEEE Xplore® Digital Library 電子電機全文資料庫

基泰國際/涵堂資訊

學術講師



內容大綱

- 認識 IEEE 美國電子電機工程師學會
- IEEE Xplore 收錄資料類型
- 在 IEEE Xplore 中瀏覽與檢索
- 個人化功能設定



IEL 資料庫讓您的研究生活更高效



IEEE 美國電子電機工程師學會

The Institute of Electrical and
Electronics Engineers



IEEE 源自兩大工程學會

➤ 美國電子工程師協會 (1884)

The American Institute of Electrical Engineers
(AIEE)

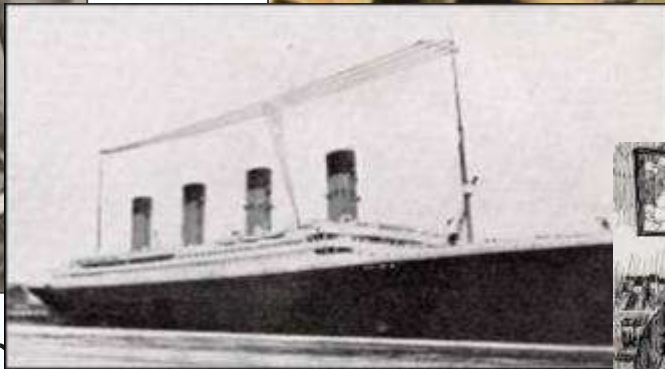


➤ 無線電工程師協會 (1912)

The Institute of Radio Engineers (IRE)



Guglielmo Marconi



Titanic



於1963年合併成立IEEE



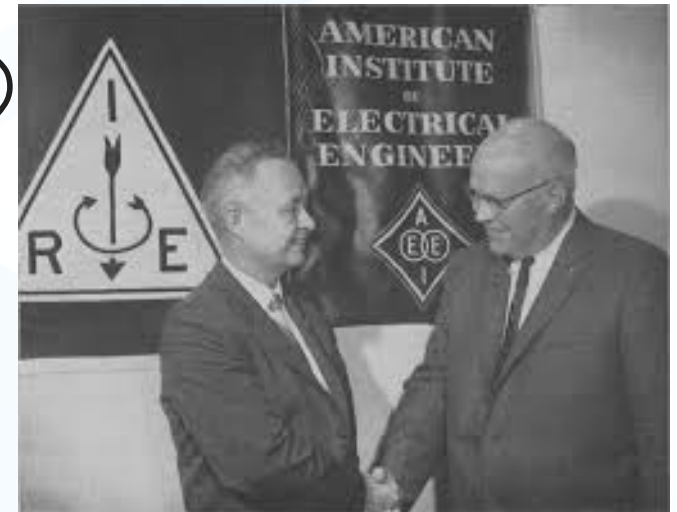
The American Institute of
Electrical Engineers (AIEE)



The Institute of Radio
Engineers (IRE)



The **I**nstitute of **E**lectrical
and **E**lectronics **E**ngineers =
IEEE



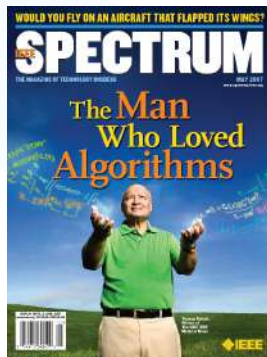
關於IEEE

- 全球規模最大的非營利性學術組織
- 來自160個不同國家的425,000名會員
- “促進全人類科技研究發展”為組織使命。



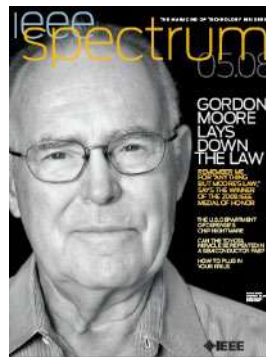
“Advancing Technology For Humanity”

IEEE會員為科技領導者



Thomas Kailath
IEEE Medal of Honor
2007

Algorithms for credit card
processing, text messaging &
video cell phones

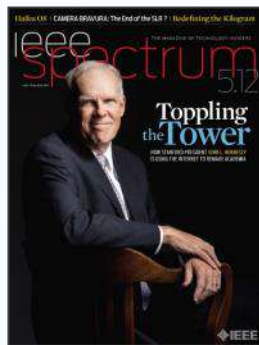


Gordon Moore
IEEE Medal of Honor
2008

Leadership in
semiconductor industry,
co-founder Intel



Morris Chang
IEEE Medal of Honor 2011
CEO Taiwan Semiconductor Mfgt



John Hennessy
IEEE Medal of Honor 2012
President, Stanford University



Irwin Jacobs
IEEE Medal of Honor 2013
Co-founder, Qualcomm, Inc



IEEE學生會員

- 獲得IEEE學生獎項（多項獎學金，論文大賽，各種競賽活動等）。
- 獲得會議旅遊資助與國際/國內學生分會間交流活動機會。
- 參觀著名企業/科技機構實驗室。
- 免費參加IEEE網上學生專題講座。
- 獲得志願者證書，提升職業能力。



關於IEEE

➤ IEEE 服務內容

IEEE出版發表各領域最尖端之研究成果文獻，以**期刊**、**會議論文**、**標準**為三大類型為主。

➤ IEEE 服務對象

透過 IEEE Xplore Digital Library，來自全球各地的研究可快速方便的瀏覽閱讀平台收錄之豐富出版品。

包括學術組織，政府機關，企業團體都是此平台用戶群。

IEEE XPLORE

IEEE/IET Electronic Library (IEL)

期刊雜誌
Journals &
Magazines

資料庫 工線

- 170筆高品質工程期刊。
- IEEE、IET、Alcatel-Lucent。

會議論文集
Conference
Publications

能源

- 每年在各地舉辦1200研討會。
- IEEE、IET、VDE。

IEEE標準
IEEE Standards

放射學

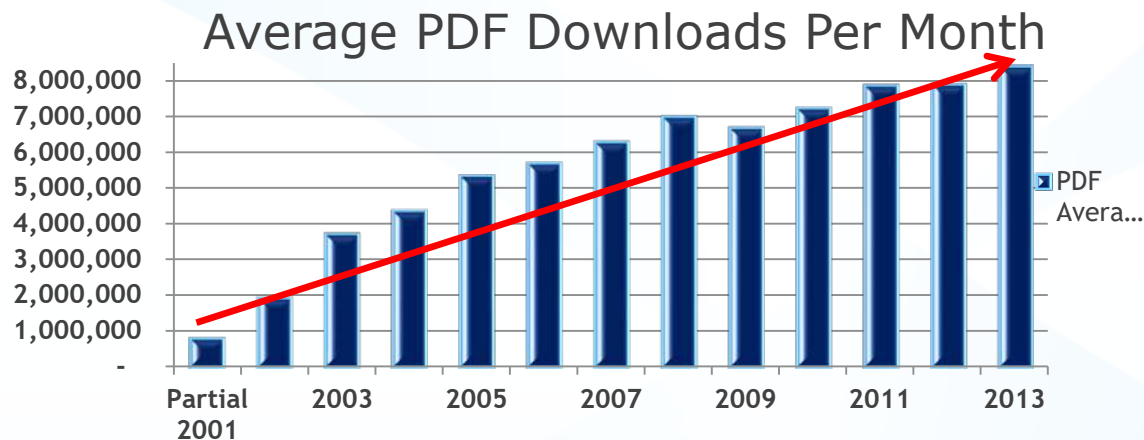
- IEEE 現行、歷史、紅線標準。

無線技術



IEEE Xplore® : 全球使用量不斷攀升

2013年每月平均超過**800萬**文獻檔案被下載



Source: IEEE Xplore Internal Usage Stats

全球下載量:台灣第四

1 China



2 USA



3 India



4 Taiwan



5 Korea



Data year end 2013

IEEE *Xplore*[®] : 論文發表引用率第一

Thomson Reuters Journal Citation Reports[®] by Impact Factor

IEEE publishes:

19 of the top 20 journals in 電機電子工程

18 of the top 20 journals in 通訊科技

7 of the top 10 journals in 自動化與控制系統

6 of the top 10 journals in 計算機科學、硬體與架構

4 of the top 5 journals in 控制理論

3 of the top 5 journals in 人工智慧

2 of the top 5 journals in 機器人學

The Thomson Reuters Journal Citation Reports presents quantifiable statistical data that provides a systematic, objective way to evaluate the world's leading journals.

Based on the 2013 study released July 2014

More info: www.ieee.org/citations



IEEE Xplore® : 專利申請引用率第一

全球前40大專利研發機構

引用文獻源: IEEE四

度蟬聯第一

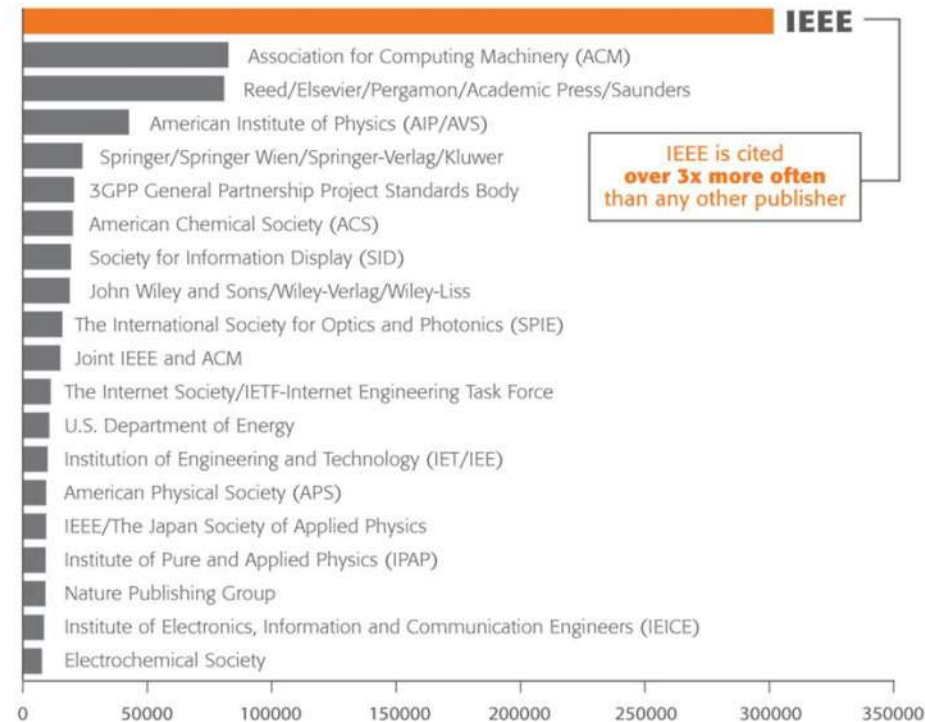
- 被引用次數超過其他出版單位的三倍。
- 1997年至今專利被引用次數增加768%。
- 科技文獻在專利申請時的重要性節節攀升。

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

Source: 1790 Analytics LLC 2014

IEEE 引領美國專利發展

前二十大專利機構最常引用的出版單位



IEEE Xplore 收錄資料類型介紹



IEEE Xplore- 五大文獻收錄類型

[期刊雜誌] Journal & magazine

[會議論文集] Conference publication

[標準規範] IEEE standards

[電子書] Books & Ebooks

[線上學習] Education & Learning

[期刊雜誌] Journal & magazine

- 包括IEEE、IET、Alcatel-Lucent之出版品。
- 完整收錄1988至今的文獻。
- 精選收錄1872~1988年期刊雜誌文獻。
- 每年平均新增 5-6種期刊雜誌。
- 文獻收錄量逾 700,000份。

[會議論文集] Conference publication

- 完整收錄1988年至今的文獻。
- 精選收錄1951~1988年會議論文集。
- 每年於世界各地舉辦的學術研討會達1,200場以上。
- 文獻收錄量達**1,900,000**份。



[標準規範] IEEE standards

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。

最受矚目的標準之一：802 系列標準

IEEE 802.3 — 乙太網路

IEEE 802.11 — 無線網路

IEEE 802.16 — 寬頻無線接取



技術標準狀態：Active. Archived. Withdrawn. Draft
(提供 PDF檔全文下載)

[電子書] Books & Ebooks

電子書種類	IEEE-Wiley eBooks Library	MIT Press eBooks Library	Morgan & Claypool eBooks Library
書目數量	700	550	600
章節篇數	13,000+	10,000+	n/a
主要主題	<ul style="list-style-type: none"> • Communication • Computing • Components • Circuits 	Computing, General Topics for Engineers, Engineering Profession	<ul style="list-style-type: none"> • Computing • Components • Circuits
每年新增本數	~40	~40	~100
追朔年分	1974	1943	2006
近五年發表量	242本; 35%	134本; 24%	352本; 59%
近十年發表量	431本; 62%	227本; 41%	600本, 100%

[線上學習] Education & Learning

➤ English for Engineering

IEEE與劍橋大學共同合作之線上英文教學課程，著重於專業工程領域之溝通技巧與英文知識，適合各領域工程師及相關技術人員。

➤ Elearning Library

內容來自世界各地IEEE的會議與研討會，超過400筆線上學習課程，收錄核心與新興技術的介紹，對於專業人士、教師與學生提供一個更好的學習方式。



IEEE Xplore™

IEEE Xplore

瀏覽方式

將引領探索工程領域豐富的資訊文獻



網址：www.ieeexplore.ieee.org

IEEE Xplore 首頁

IEEE.org | IEEE Xplore Digital Library | IEEE Standards | IEEE Spectrum | More Sites Cart (0) | Create Account | Personal Sign In

IEEE Xplore[®]
Digital Library

Institutional Sign In

IEEE

使用者資訊

個人登入

BROWSE

MY SETTINGS

GET HELP

WHAT CAN I ACCESS?

SUBSCRIBE

瀏覽

Search 3,820,831 items

檢索

Enter Search Term

Search

Basic Search

Author Search

Publication Search

Advanced Search

Other Search Options

檢索查找工具



IEEE Congratulates Nobel Prize Winners in Physics

The 2014 physics award winners are Isamu Akasaki of Meijo University and Nagoya University in Japan, Hiroshi Amano of Nagoya University in Japan, and Shuji Nakamura of the University of California, Santa Barbara in the USA. All three Nobel Prize winners are IEEE authors, published in IEEE Xplore:

» Isamu Akasaki » Hiroshi Amano » Shuji Nakamura

Journals & Magazines

Conference Publications

Standards

Books & eBooks

IEEE 最新消息

Just Published

Most Popular

IEEE Xplore首頁

Journals & Magazines | Conference Publications | Standards | Books & eBooks | Education & Learning

Just Published | Most Popular

依照不同文獻類型之最新出版 & 熱門文獻

Power Electronics, IEEE Transactions

Vehicular Technology, IEEE Transactions on
Volume: 63 Issue: 8
Oct 2014

Signal Processing Magazine, IEEE
Volume: 31 Issue: 6
Nov. 2014

Systems, Man, and Cybernetics: Systems, IEEE Transactions on
Volume: 44 Issue: 9
Sept. 2014

Data mining with big data

Toward Scalable Systems for Big Data Analytics: A Technology Tutorial
Han Hu; Yonggang Wen; Tat-Seng Chua; Xuelong Li
24 六月 2014

Cellular architecture and key technologies for 5G wireless communication networks
Cheng-Xiang Wang; Haider, F.; Xiqi Gao; Xiao-Hu You ...
February 2014

Massive MIMO for next generation wireless systems
Larsson, E.; Edfors, O.; Tufvesson, F.; Marzetta, T.
February 2014

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FREE TRIAL

熱門檢索關鍵字

Popular Search Terms

- data mining
- image processing
- cloud computing
- big data
- network security
- wireless sensor networks
- vlsi
- android
- smart grid

IEEE/IET Electronic Library

BROWSE 瀏覽功能

The screenshot shows the 'BROWSE' section of the IEEE/IET Electronic Library website. A red arrow points to 'Journals & Magazines' in the main menu, with a yellow callout box containing the text '點選期刊為例子'. A large yellow box in the center contains a numbered list of five categories: 1. 電子書, 2. 會議論文, 3. 線上課程, 4. 期刊雜誌, and 5. 技術標準. At the bottom, another yellow box contains the text '依照領域分類瀏覽'. The background shows the website's navigation bar with links for 'GET HELP', 'WHAT CAN I ACCESS?', and 'SUBSCRIBE', and a search bar with a 'Search' button. Below the main menu, there is a 'By Topic' section with a grid of subject areas including Aerospace, Bioengineering, Communication, Networking & Broadcasting, Components, Circuits, Devices & Systems, Computing & Processing (Hardware/Software), Engineered Materials, Dielectrics & Plasmas, Engineering Profession, Fields, Waves & Electromagnetics, General Topics for Engineers (Math, Science & Engineering), Geoscience, Nuclear Engineering, Photonics & Electro-Optics, Power, Energy, & Industry Applications, Robotics & Control Systems, Signal Processing & Analysis, and Transportation.

BROWSE

- Books & eBooks
- Conference Publications
- Education & Learning
- Journals & Magazines
- Standards

點選期刊為例子

1. 電子書
2. 會議論文
3. 線上課程
4. 期刊雜誌
5. 技術標準

依照領域分類瀏覽

GET HELP ▾ WHAT CAN I ACCESS? SUBSCRIBE

Search

er Search Options ▾

Nobel Prize

ki of Meijo
Amano of Nagoya
University of
Nobel Prize winners
Nakamura

ation &
arning

Just Published Meet Popular

Browse Journal & Magazines

依關鍵字搜尋

依主題領域瀏覽

By Title

By Topic

Aerospace

Bioengineering

Communication, Networking & Broadcasting

General Topics for Engine

Geoscience

Nuclear Engineering

Photonics & Electro-Optics

Power, Energy, & Industry Applications

Robotics & Control Systems

Signal Processing & Analysis

Transportation

完整期刊清單下載

FILTER THESE RESULTS

關鍵字搜尋

Show active titles only

PUBLICATION YEAR

Single Year Range

1884 2015

From: 1884

To: 2015

左邊檢索欄位

可設定年分與出版年代

Sort by: Publication Title A - Z

10 >> Last >

PUBLISHER

IEEE (28)

IET (2)

AIP (1)

AVS (1)

BIAI (1)

IEEE Access

Publisher: IEEE, Years: 2011 - Present

點選期刊標題

Aerospace and Electronic Systems Magazine, IEEE

Publisher: IEEE, Years: 1986 - Present Most Recent Issue

Aerospace and Electronic Systems, IEEE Transactions on

Browse Journal & Magazines

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 Related Journals

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Computing in Science & Engineering



Computer



Pervasive Computing, IEEE

Editor-in-Chief

Jian Pei
Simon Fraser University

More About this Journal 

Browse Conference Publications

依照會議名稱或領域分類瀏覽

設定瀏覽之年代、出版商與主題

The screenshot shows the IEEE Xplore search results page. A red box highlights the left sidebar, which contains the following filter sections:

- FILTER THESE RESULTS**
- PUBLICATION YEAR**
 - Single Year Range
 - Timeline from 1951 to 2014
 - From:
 - To:
- PUBLISHER**
 - IEEE (3,787)
 - IET (2,504)
 - VDE (83)
- TOPIC**
 - Computing & Processing (Hardware/Software) (3,762)
 - Communication, Networking & Broadcasting (3,267)
 - Components, Circuits, Devices & Systems (2,757)
 - Signal Processing & Analysis (2,054)
 - Power, Energy, & Industry Applications (1,696)
 - Robotics & Control Systems (1,423)

The main content area shows a search bar with the text "find conference proceeding", a "SEARCH" button, and a "Sort by: Publication Title A - Z" dropdown. Below the search bar, there are navigation buttons for pages 1 through 10, and a "Last" button. The results section displays "6374 Results Returned" and lists the following items:

- 100 Years of Radio., Proceedings of the 1995 International Conference on**
Publisher: IET
- Methods and Models in Automation and Robotics (MMAR), 2014 19th International Conference On**

The IEEE logo is visible in the bottom right corner.

Browse Standards

依照標準編號或領域分類瀏覽

設定標準版本、年代與主題

紅線標準

FILTER THESE RESULTS

STANDARD STATUS

- Active (1,150)
- Active Approved Draft (68)
- Active Unapproved Draft (387)
- Archived (624)
- Archived Approved Draft (337)
- Archived Draft (22)
- Archived Unapproved Draft (516)
- Draft (5)
- Redline (205)
- Withdrawn (285)

PUBLICATION YEAR

Single Year Range

1949 2015

From:

To:

TOPIC

- Power, Energy, & Industry Applications (975)
- Components, Circuits, De-

399 400 - 499 500 - 599 600 - 699 700 - 799 800 - 899 900 - 999 1000 - 1099

to narrow your results.

SEARCH

Sign in to take advantage of your personalization options.

Includes persistent links, ISSNs, title history and subscription details

Sort by: Standard Number

1 2 3 4 5 6 7 8 9 10 >> Last

1804 Results Returned

1 - IEEE Recommended Practice - General Principles for Temperature Limits in the Rating of Electrical Equipment and for the Evaluation of Electrical Insulation

View Version Details

3 - IEEE Recommended Practice in the Selection of Reference Ambient Conditions for Test Measurements of

Redline Standards 紅線標準

4 - IEEE Standard for High-Voltage Testing Techniques



7-4.3.2 檢視版本資訊



18 - IEEE Standard for Shunt Power Capacitors



43 - IEEE Recommended Practice for Testing Insulation Resistance of Electric Machinery



48 - IEEE Standard for Test Procedures and Requirements for Alternating-Current Cable Terminations Used on Shielded Cables Having Laminated Insulation Rated 2 through 765 kV or Extruded Insulation Rated 2.5 kV through 500 kV



81 - IEEE Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Grounding System



181 - IEEE Standard for Transitions, Pulses, and Related Waveforms

VERSIONS

Active

現行

181-2011 - IEEE Standard for Transitions, Pulses, and Related Waveforms

» Revision of IEEE Std 181-2003

Available within the following subject area(s):

» Testing, Instrumentation and Measurement, and Metric Practice

Archived

歷史

181-1977 - IEEE Standard on Pulse Measurement and Analysis by Objective Techniques

Available within the following subject area(s):

» Communications
» Testing, Instrumentation and Measurement, and Metric Practice

Draft

廢止

P181/D02, Nov 2010 - IEEE Draft Standard on Transitions, Pulses, and Related Waveforms

Available within the following subject area(s):

» Testing, Instrumentation and Measurement, and Metric Practice

Redline

紅線

IEEE Standard for Transitions, Pulses, and Related Waveforms - Redline

» Revision of IEEE Std 181-2003

Available within the following subject area(s):

» Testing, Instrumentation and Measurement, and Metric Practice



Redline Standards 紅線標準

IEEE STANDARDS ASSOCIATION



IEEE Standard and Related

fluctuation: Variation (dispersion) of a *level* parameter of a set of *repetitive waveforms* with respect to a ~~reference amplitude or a reference level~~. ~~Unless otherwise specified by a mathematical adjective, root-mean-square (rms) fluctuation is assumed.~~
reference amplitude or a reference level.

NOTE—Unless otherwise specified by a mathematical adjective, rms fluctuation is assumed.

frequency: The reciprocal of *waveform period*.

glitch: A *transient* that leaves an *initial state*, enters the *boundaries* of another *state* for a *duration* less than the *duration* for *state occurrence*, and then returns to the *initial state*.

IEEE Instrumentation

instant: ~~Unless~~ A particular time value within a waveform epoch that, unless otherwise ~~specified, a time specified with respect~~ specified, is referenced relative to the *initial instant, t_0* of that *waveform epoch*.

Sponsored by the Waveform Generator

instant, final: The last sample instant in the waveform.

instant, impulse center: The *instant* at which a user-specified approximation to the *maximum peak* (*minimum peak*) of the positive (negative) *impulse-like waveform* occurs.

- 以不同顏色與刪除線來表示新舊版本之差異，省去列印兩份標準相互對照比較差異之時間。

IEEE *Xplore* 如何檢索



檢索功能

自動推薦關鍵詞功能

Search 3,885,742 items

cloud computing

Cloud Computing

Cloud Computing And Intelligent Systems (CCIS), 2012 IEEE 2nd International Conference On

Cloud Computing Environment

Cloud Computing Technology And Science (CloudCom), 2013 IEEE 5th International Conference On

Cloud Computing Technology

Cloud Computing (CLOUD), 2014 IEEE 7th International Conference On

Cloud Computing (CLOUD), 2012 IEEE 5th International Conference On

Cloud Computing (CLOUD), 2013 IEEE Sixth International Conference On

Cloud Computing Technology And Science (CloudCom), 2012 IEEE 4th International Conference On

Cloud Computing Services

Cloud Computing And Intelligence Systems (CCIS), 2011 IEEE International Conference On

Cloud Computing Technology And Science (CloudCom), 2011 IEEE Third International Conference On

Cloud Computing (CLOUD), 2011 IEEE International Conference On

Cloud Computing Technology And Science (CloudCom), 2010 IEEE Second International Conference On

Search

Other Search Options ▾

檢索功能

強大檢索功能列

檢索結果筆數

可再次輸入關鍵字

20,664 Results returned

排序可依照

Relevance

- 文獻類型
- 出版年份
- 作者
- 所屬單位
- 出版刊物
- 出版商
- 研討會舉辦地點或國家
- 標準版本

SEARCH HISTORY

Search History is available using your personal IEEE account.

STANDARDS DICTIONARY TERMS (What's this?)

transaction
arbitration
byte
module
channel
response
unit

Browse Standards Dictionary

標準術語字典

利用檢索功能列了解研究現況

資料庫會自動依相關度將選項列出

AUTHOR

Search for Author

- Buyya, Rajkumar (37)
- Hai Jin (35)
- Yonggang Wen (28)
- Dustdar, S. (27)
- Adams, R. (24)
- Bauer, E. (24)
- Yang, L.T. (23)
- Gusev, M. (23)
- Zomaya, A.Y. (21)
- ...

了解該領域權威作者

AFFILIATION

Search for Affiliation

- State Key Lab. of Networking & Switching Technol., Beijing Univ. of Posts & Telecommun., Beijing, China (79)
- Dept. of Comput. Sci. & Technol., Tsinghua Univ., Beijing, China (69)
- Sch. of Comput. Eng., Nanyang Technol. Univ., Singapore, Singapore (49)
- Sch. of Comput. Eng. & Sci., Shanghai Univ., Shanghai, China (33)
- Sch. of Comput. Sci. & Eng., Beihang Univ., Beijing, China (32)
- Sch. of Comput. Sci. & Technol., Shandong Univ., Jinan, China (31)

了解該領域權威學校或機關單位

PUBLICATION TITLE

Search for Publication Title

- Cloud Computing and Intelligent Systems (CCIS), 2012 IEEE 2nd International Conference on (327)
- Cloud Computing Technology and Science (CloudCom), 2013 IEEE 5th International Conference on (190)
- P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC), 2013 Eighth International Conference on (165)
- Information Science and Cloud Computing Companion (ISCC-C), 2013 International Conference on (154)
- Cloud Computing (CLOUD), 2014 IEEE 7th International Conference on (154)

了解研究討論該領域最頻繁之出版刊物

可以提供投稿、申請學校、求職等不同需求之幫助

縮小檢索範圍

SEARCH RESULTS

You searched for: **cloud computing** , **analysis** , **Security**

You Refined by

- Publisher: **IEEE**
- Content Type: **Conference Publications**
- Conference Location: **Taipei**
- Publication Year: **2006 - 2015**

16 Results returned

增加analysis與security兩關鍵字，出版商限定於IEEE，出版年代限定於2006-2015年，文獻類型限定在會議論文。

儲存此查找設定 → 條件

並且：下載引收錄進我的資料夾 | 印與查找結果輸出

設定條件皆可點選移除

Set Search Alert | Download Citations | Save to Project | Email Selected Results | Print | Export Results

Security risks and their management in cloud computing
Khan, A.U. ; Oriol, M. ; Kiran, M. ; Ming Jiang ; Djemame, K.
Cloud Computing Technology and Science (CloudCom), 2012 IEEE
4th International Conference on

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Anti-Counterfeiting, **Security** and Identification (ASID), 2012
International Conference on
DOI: 10.1109/ICASID.2012.6325353
Publication Year: 2012 , Page(s): 1 - 4

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Security risks and their management in cloud computing

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- 2- Security and Cloud Best Practices
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- 4- Market-Oriented Cloud Computing: Vision, Hype, and Reality for Delivering IT Services As C...
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3-6 Dec. 2012

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On page(s):
121 - 128

E-ISBN:
978-1-4673-4509-5

Print ISBN:
978-1-4673-4511-8

INSPEC Accession Number:
13286567

Digital Object Identifier:
10.1109/CloudCom.2012.642757
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SECTION I INTRODUCTION

JUMP

Cloud computing has been promoted as a new paradigm and the 5th utility service after water, electricity, gas and telephony [7], [11]. In the past, enterprises supported their business by procuring IT infrastructure and developing their software on top of that infrastructure. Cloud computing presents a model in which IT infrastructure is leased and used according to the need of the enterprise. The benefit of this model is that it converts capital expenditure of an enterprise into operational expenditure [5].

The most comprehensive definition of cloud computing is provided by the Institute of Standard and Technology [1]. Cloud computing is a convenient model using efficient and secure models. *Private cloud* is solely owned and operated by a third party. *Public cloud* is available to any organization selling cloud services. *Community cloud* provides an infrastructure that is shared by several organizations. *Hybrid cloud* is a composition of two, or more, cloud models (private, public).

While cloud computing is another way of implementing distributed systems, it is unique such that the infrastructure is transparent to users and programmers alike. This allows new ways of selling and sharing resources altogether. Cloud computing offers a new economic model which enables enterprises to shift from the conventional way of developing their own IT departments to outsourcing their

5. Cloud Computing: Special theme, European research consortium for Informatics and mathematics (ERCIM), ISSN 0926-4981

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