

ACM DIGITAL LIBRARY

User Guide



Association for
Computing Machinery

Advancing Computing as a Science & Profession

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資料庫簡介

ACM Digital Library 是 Association for Computing Machinery 所出版之電子資料庫，收錄該學會所出版之雜誌、會刊和期刊全文，以及相關之會議論文集。

書目資料

ACM Digital Library 包括約從 1985 年至最近一期之 ACM 全文期刊和雜誌、會刊，至今 24 萬多篇文獻，約有超過 1,400,000 頁資料。

Journals: (7)

- ✓ ACM Computing Surveys (CSUR)
- ✓ ACM Journal of Computer Documentation (JCD)
- ✓ ACM Journal on Emerging Technologies in Computing Systems (JETC)
- ✓ Journal of Experimental Algorithms (JEA)
- ✓ Journal of the ACM (JACM)
- ✓ Journal on Educational Resources in Computing (JERIC)

Magazines:(10)

- ✓ Communications of the ACM
- ✓ Computers in Entertainment (CIE)
- ✓ Crossroads
- ✓ eLearn
- ✓ intelligence
- ✓ interactions
- ✓ netWorker
- ✓ Queue
- ✓ StandardView
- ✓ Ubiquity

Transactions:(31)

- ✓ ACM Letters on Programming Languages and Systems (LOPLAS)
- ✓ ACM Transactions on Accessible Computing (TACCESS)
- ✓ ACM Transactions on Algorithms (TALG)

- ✓ ACM Transactions on Applied Perception (TAP)
- ✓ ACM Transactions on Architecture and Code Optimization (TACO)
- ✓ ACM Transactions on Asian Language Information Processing (TALIP)
- ✓ ACM Transactions on Autonomous and Adaptive Systems (TAAS)
- ✓ ACM Transactions on Computational Logic (TOCL)
- ✓ ACM Transactions on Computer Systems (TOCS)
- ✓ ACM Transactions on Computer-Human Interaction (TOCHI)
- ✓ ACM Transactions on Database Systems (TODS)
- ✓ ACM Transactions on Design Automation of Electronic Systems (TODAES)
- ✓ ACM Transactions on Embedded Computing Systems (TECS)
- ✓ ACM Transactions on Graphics (TOG)
- ✓ ACM Transactions on Information Systems (TOIS)
- ✓ ACM Transactions on Information and System Security (TISSEC)
- ✓ ACM Transactions on Internet Technology (TOIT)
- ✓ ACM Transactions on Knowledge Discovery from Data (TKDD)
- ✓ ACM Transactions on Mathematical Software (TOMS)
- ✓ ACM Transactions on Modeling and Computer Simulation (TOMACS)
- ✓ ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP)
- ✓ ACM Transactions on Programming Languages and Systems (TOPLAS)
- ✓ ACM Transactions on Reconfigurable Technology and Systems (TRETS)
- ✓ ACM Transactions on Sensor Networks (TOSN)
- ✓ ACM Transactions on Software Engineering and Methodology (TOSEM)
- ✓ ACM Transactions on Speech and Language Processing (TSLP)
- ✓ ACM Transactions on Storage (TOS)
- ✓ ACM Transactions on the Web (TWEB)
- ✓ IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)
- ✓ IEEE/ACM Transactions on Networking (TON)

Publications by Affiliated Organizations (24)

- ✓ ALGOL Bulletin *Computer History Museum*
- ✓ Computational Linguistics *MIT Press*

- ✓ International Journal of Network Management *John Wiley & Sons, Inc. (Full Text is not available)*
- ✓ Journal of Computing Sciences in Colleges *Consortium for Computing Sciences in Colleges*
- ✓ Linux Journal *Specialized Systems Consultants, Inc.*
- ✓ Mobile Networks and Applications *Kluwer Academic Publishers*
- ✓ Personal and Ubiquitous Computing *Springer-Verlag*
- ✓ The Journal of Machine Learning Research *MIT Press*
- ✓ The VLDB Journal — The International Journal on Very Large Data Bases *Springer-Verlag New York, Inc.*
- ✓ Wireless Networks *Kluwer Academic Publishers*
- ✓ ACL: Annual Meeting of the ACL
- ✓ ANLC: Applied Natural Language Conferences
- ✓ CASCON: IBM Centre for Advanced Studies Conference
- ✓ COLING: International Conference On Computational Linguistics
- ✓ CSCL: Computer Support for Collaborative Learning
- ✓ EACL: European Chapter Meeting of the ACL
- ✓ HLT: Human Language Technology Conference
- ✓ ICLS: International Conference on Learning Sciences
- ✓ MUC: Message Understanding Conference
- ✓ NAACL-ANLP: ANLP/NAACL Workshops
- ✓ NAACL: North American Chapter Of The Association For Computational Linguistics
- ✓ TINLAP: Theoretical Issues In Natural Language Processing
- ✓ VLDB: Very Large Data Bases
- ✓ Wireless Networks

會議論文集

ACM Digital Library 有從 1985 到 1999 年之全文會議文獻資料，每年增加約 40 筆，包括 SIGGRAPH 與 SIGCHI 之會議論文。

資料庫主畫面

ACM Digital Library 網址：<http://portal.acm.org/dl.cfm>

The screenshot shows the ACM Digital Library homepage with several callout boxes:

- 簡易檢索**: Points to the search bar at the top right.
- 進階檢索**: Points to the "Advanced Search" link under the search bar.
- 按資料類型瀏覽**: Points to the "Browse the Digital Library" section, which lists categories like Journals, Magazines, Transactions, Proceedings, Newsletters, Publications by Affiliated Organizations, Special Interest Groups (SIGs), and ACM Oral History interviews.
- 資料庫簡介**: Points to the "THE ACM DIGITAL LIBRARY" section, which includes links to "Using the ACM Digital Library" and "Frequently Asked Questions (FAQ's)".
- 最近二週新出版期刊**: Points to the "Recently loaded issues and proceedings" section, which lists recent issues of various ACM journals.

瀏覽功能

系統提供瀏覽功能，使用者可在首頁依不同的資料類型，瀏覽資料：

- Journal 期刊
- Magazine 雜誌
- Transaction 會刊
- Proceedings 會議記錄
- Newsletters 時事通訊
- Publications by Affiliated Organizations 相關附屬機構出版品
- Special Interest Groups (SIGs) 特殊興趣團體
- ACM Oral History interviews ACM 口述歷史訪談

使用方式：

- 點選欲瀏覽之資料類型，例：Journals，系統會列出該資料類型下所有出版品，在此選擇欲瀏覽的刊物名稱，例：Journal of the ACM

The screenshot shows the ACM Digital Library homepage. At the top, there are links for 'Subscribe (Full Service)', 'Register (Limited Service, Free)', and 'Login'. A search bar is present with the placeholder 'Search: The ACM Digital Library' and a radio button for 'The Guide'. Below the search bar is a 'SEARCH' button. To the right of the search bar is a box containing the text '可在期刊中限定搜尋' (Limit search to journals). In the center, there is a green bar labeled 'THE ACM DIGITAL LIBRARY'. Below it, a breadcrumb navigation shows 'DL Home → Journals'. A search input field is followed by a 'SEARCH' button and a link to 'Advanced Search'. To the right of the search area is a box labeled 'ACM 所有收錄的期刊' (All indexed ACM journals). On the left, under 'Browse the ACM Journals:', there is a list of journals:

- ◆ [ACM Computing Surveys \(CSUR\)](#)
- ◆ [ACM Journal of Computer Documentation \(JCD\)](#)
- ◆ [ACM Journal on Emerging Technologies in Computing Systems \(JETC\)](#)
- ◆ [Journal of Experimental Algorithms \(JEA\)](#)
- ◆ [Journal of the ACM \(JACM\)](#)
- ◆ [Journal on Educational Resources in Computing \(JERIC\)](#)

- 期刊主頁面顯示該本期刊之簡介，以及各刊期的連結。可選擇查看最新刊期 (current issue)，或查看以前所出版的各期 (archive)。點選刊期，即可查看該刊期之目次 (Table of Content)

The screenshot shows the Journal of the ACM (JACM) page. At the top, there are links for 'Subscribe (Full Service)', 'Register (Limited Service, Free)', and 'Login'. A search bar is present with the placeholder 'Search: The ACM Digital Library' and a radio button for 'The Guide'. Below the search bar is a 'SEARCH' button. To the right of the search bar is a box containing the text '可限定在單本期刊內容中搜尋' (Limit search to current issue). In the center, there is a green bar labeled 'THE ACM DIGITAL LIBRARY'. Below it, a breadcrumb navigation shows 'DL Home → Journals → JACM'. A search input field is followed by a 'SEARCH' button and a link to 'Advanced Search'. To the right of the search area is a box labeled '期刊內容的簡介' (Introduction to journal content). On the left, under 'Browse Journal of the ACM (JACM):', there is a section for 'JACM' with a thumbnail image of the journal cover. It includes the ISSN '0004-5411' and a link to 'TOC Service'. Below this is a section for 'Current Issue' with the link 'Volume 55, Issue 2 (May 2008)'. There is also a section for 'Archive' with links to 'Volume 1, Issue 1 (Jan. 1954)' and 'Volume 55, Issue 1 (February 2008)'. Arrows point from the 'Introduction to journal content' box to the 'Archive' section and the 'Current Issue' section. Arrows also point from the 'Introduction to journal content' box to the '期刊內容的簡介' box and the '進入現刊目錄' (Enter current issue TOC) box. At the bottom left, there is a link '進入所有卷期列表' (Enter all issues list).

3. 在特定期刊中查詢文章

進入瀏覽畫面（如上）後，可發現在上方有個快速搜尋欄位，在您不斷點選進入下一層瀏覽內容時，此欄位可不斷限縮搜尋的範圍，甚至可在單期的期刊內容中搜尋。其後我們將介紹進階查詢（Advanced Search），包含更多樣更精確的檢索方式。

書目資料顯示格式

在期刊的目錄中選擇單篇文章進入後，顯示的畫面如下：

XML data exchange: Consistency and query answering

Full text [Pdf \(1.09 MB\)](#) → 開啟 PDF 全文

Source [Journal of the ACM \(JACM\) archive](#)
Volume 55 , Issue 2 (May 2008) [table of contents](#)
Article No. 7
Year of Publication: 2008
ISSN:0004-5411

Authors [Marcelo Arenas](#) Pontificia Universidad Católica de Chile, Santiago, Chile
[Leonid Libkin](#) University of Edinburgh, Edinburgh, United Kingdom

Publisher [ACM](#) New York, NY, USA

Bibliometrics Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

書目資料、摘要、參考文獻、索引詞、DOI 號碼等連結，可下載至書目管理軟體

Additional Information: [abstract](#) [references](#) [index terms](#)

Tools and Actions: [Review this Article](#) [Save this Article to a Binder](#) Display Formats: [BibTex](#) [EndNote](#) [ACM Ref](#)

DOI Bookmark: Use this link to bookmark this Article: <http://doi.acm.org/10.1145/1346330.1346332>
[What is a DOI?](#)

↑ ABSTRACT

Data exchange is the problem of finding an instance of a target schema, given an instance of a source specification of the relationship between the source and the target. Theoretical foundations of data exchange have been investigated for relational data.

In this article, we start looking into the basic properties of XML data exchange, that is, restructuring a

書目資料中的超連結有兩種功能，一是幫助讀者快速跳至該部分，例如按下 reference 的超連結時，畫面會立刻跳至 reference；一是利用該項目在 ACM 裡頭做自動搜尋，方便讀者做延伸閱讀，例如按下作者的名字上的超連結時，系統會直接幫您搜尋在 ACM 裡收錄同一位作者所寫的其他文章。

參考文獻

↑ REFERENCES

Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

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↑ INDEX TERMS

Primary Classification:

- H. [Information Systems](#)
 - ↳ H.2 [DATABASE MANAGEMENT](#)
 - ↳ H.2.5 [Heterogeneous Databases](#)

索引詞，ACM 自訂的電腦文獻分類系統

General Terms:

- [Management](#), [Theory](#)

Keywords:

- [Data exchange](#), [XML](#), [computing certain answers](#), [consistency](#)

關鍵詞

書目資料欄位

- 題名
- 全文連結：點選 PDF 文件圖示即可連結全文。必須先安裝 Acrobat Reader
- 出處：該篇文章的出處，可連結至該期刊各刊期之目次
- 期刊出版資訊：卷期、頁數、出版年、ISSN
- 作者：包括作者姓名與其服務機構，點選作者名字可連結至 ACM 裡所收錄同一作者所寫的其他文章
- 出版社：出版社名稱
- DOI：本篇文章之網路位址，可點選該連結，將本篇文章加入書簽
- 摘要：文章摘要
- 索引詞：系統所給予本篇文章之主題分類。點選主題分類可連結至分類於該主題下之文章列表
- 關鍵字：文章關鍵字。點選關鍵字可連結至其他具有同樣關鍵字之文章列表
- 參考文獻：本篇文章之參考文獻
- 評論：其他專家學者對本篇文章發表之評論。部份評論必須訂購 Reviews.com 資料庫才可觀看

請注意：部份功能僅限個人或特定資料庫訂購者使用，團體訂購者無使用權限：

- Review this Article （提供給 ACM 的評論者，用以評論該篇文章）
- Save this Article to a Binder
- My Bookshelf

查詢功能

ACM Digital Library 的查詢功能分為簡易檢索與進階檢索，以下即針對兩種不同的檢索方式說明：

- 簡易檢索 Simple Search

利用簡單的字詞，在資料庫中搜尋符合條件之資料，不限出現欄位。

使用方式：

1. 首先選擇在 The Guide 或 ACM Digital Library 中查詢
2. 在空白欄位中輸入字詞
3. 點選 Search

Search: The Guide The ACM Digital Library

SEARCH

- 進階檢索 Advanced Search

不同於簡易檢索，進階檢索提供更多欄位、更多檢索點與不同邏輯組合，幫助使用者更精確地找到所需資訊。

提供檢索點包含：

- | | |
|-----------------|---------------|
| - 作者／編者姓名與服務機構 | - 會議名稱、時間、地點等 |
| - ISBN/ISSN/DOI | - 索引詞、關鍵字 |
| - 出版資訊 | - 辭彙出現處／文獻層次 |

進階檢索畫面：

↓

標題、摘要、全文章的字詞

Words or Phrases

Find [any field] with
all of this text (and)
any of this text (or)
none of this text (not)

Keywords

Find author's keywords
using all any none of the keywords

文章關鍵字

Names

Find [any field] with names
using all any none of the names

機構名稱

Affiliations

Find company or school
using all any none of the affiliations

出版品的名稱/年代/種類

Publication

Find publication
using all any none of the names

Published since [year] Published before [year]

In publication types Journal Proceeding Transaction Magazine Newsletter

會議舉辦地點年份

Conference

Find sponsor names
using all any none of the names

Find year (yyyy)
using any none of the years

Identification codes

Find ISBN/ISSN
Find DOI

Computing Classification System (CCS)

Find node
Find subject/noun
 Look at primary category only

Required components

Results must have Full Text Abstract Review

文章或期刊書目編碼

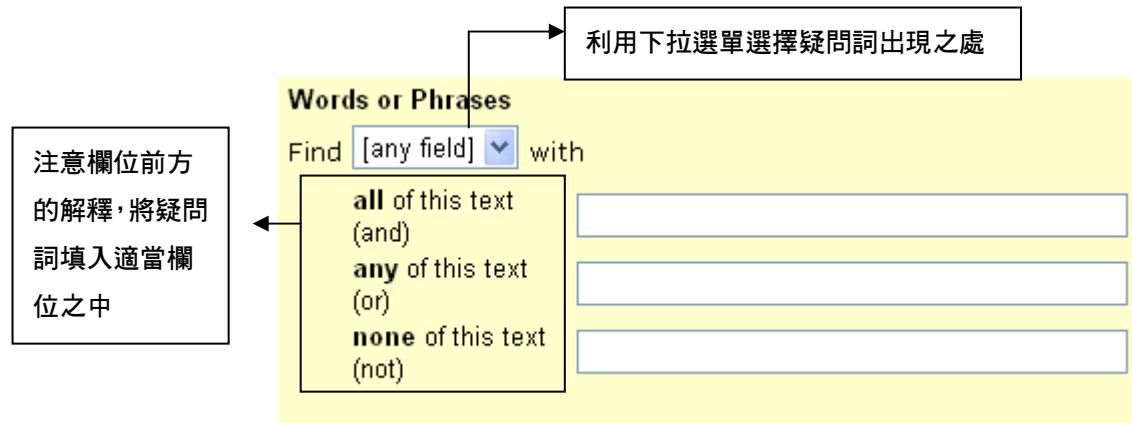
ACM 自訂索引分類系統

SEARCH

檢索技巧

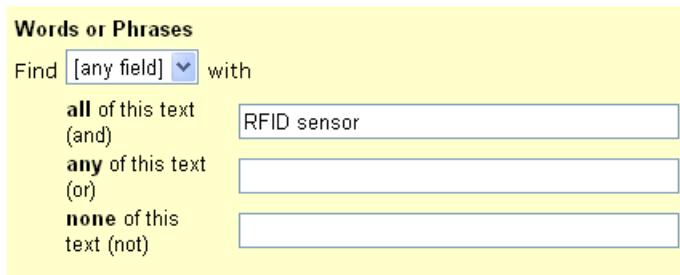
使用者可學習檢索技巧的使用，利用簡單的檢索式，快速且精確的找到資料。

1. 搜尋在文章中的標題、摘要、評論或任何地方的字詞



- 欄位一和二之間是用 and 連接，和欄位 3 則是用 not 連接
- 若將兩個疑問詞輸入欄位一，以空白鍵隔開，空白鍵是表示"and"；同理，欄位二的空白鍵則是表示"or"，欄位三則是"not"
- 舉例說明，若要尋找 RFID and sensor，則可以在第一個欄位輸入 RFID sensor 【圖一】；或是在第一欄中輸入 RFID，第二欄中輸入 sensor 【圖二】

【圖一】



【圖二】

Words or Phrases

Find [any field] with

all of this text (and)	<input type="text" value="RFID"/>
any of this text (or)	<input type="text" value="sensor"/>
none of this text (not)	<input type="text"/>

- 若要尋找 RFID or sensor，則可以在第二個欄位輸入 RFID sensor 【圖三】

【圖三】

Words or Phrases

Find [any field] with

all of this text (and)	<input type="text"/>
any of this text (or)	<input type="text" value="RFID sensor"/>
none of this text (not)	<input type="text"/>

- 若要尋找 RFID not sensor，則可以在第一個欄位輸入 RFID，第三個欄位輸入 sensor 【圖四】

【圖四】

Words or Phrases

Find [any field] with

all of this text (and)	<input type="text" value="RFID"/>
any of this text (or)	<input type="text"/>
none of this text (not)	<input type="text" value="sensor"/>

2. 布林邏輯的使用

在許多檢索點的下方具有以下邏輯選項

using all any none of the names

以輸入"John Day"查詢作者名為例，

布林邏輯	意 義	範 例
All	完全符合	僅出現完全符合"John Day"的作者名
Any	部分符合	出現包含任一的作者，例如亦會搜尋到 John Gage
None	不包含特定概念	出現完全不包含"John Day"的作者

3. 切截

代表字元	意 義	範 例
*	字尾切截 查詢相同字根，或不確定拼法之詞	zoop*，可查詢 zooplankton

4. 查詢字根

簡易檢索會自動幫使用者查詢以該檢索字詞為字根之其它字詞。例:輸入 meet，系統會查到包含 meet、meets 與 meeting 之文章。

若只想查詢該字詞，而不想查到使用該字詞為字根之其它字詞時，可使用雙括弧，例："meet"

5. 相近運算元

可界定檢索詞間位置關係：

代表字元	意 義	範 例
<NEAR>	兩字詞必須緊連在一起	html <NEAR> publishing
<SENTENCE>	兩字詞必須出現於同一句子	taiwan <SENTENCE> notebook
<PARAGRAPH>	兩字詞必須出現於同一段	Microsoft <PARAGRAPH> monopoly

檢索結果顯示格式

找到符合檢索條件之文章後，系統會將文章依相關程度排列出來。使用者亦可選擇不同的方式排序。系統提供以下排序方式：

- relevance 相關程度：相關程度高到低排列
- title 文章題名：依文章題名首字字母順序排列，自 A 到 Z
- publication 出版品名稱：依期刊刊名字順排序
- publication date 出版日期：依文章發表先後排序，最新的在前
- publisher 出版社名稱：出版社名稱自 A 到 Z
- citation count 被引用次數：多到少排列
- downloads (6 Weeks) 近六週被下載次數：多到少排列
- downloads (12 Months) 近一年被下載次數：多到少排列

檢索結果顯示畫面

The screenshot shows the ACM Digital Library search results for the query "e-learning". The results page displays 1,662 items, with the first result being a journal article by Chao Boon Teo and Robert Kheng Leng Gay. The interface includes a sidebar for refining search terms and a main area for viewing individual article details. Annotations highlight specific features:

- A callout box labeled "在現有檢索結果中再新增搜尋條件" points to the search bar at the top of the results page.
- A large callout box labeled "檢索結果顯示方式格式" covers the top right of the page, with an arrow pointing to the "Sort by" dropdown menu.
- An arrow points from the "Sort by" dropdown to another callout box labeled "選擇排序方式".

將查詢得到的結果進行二次篩選

- Refine By keywords：篩選出相關主題內所包含文章數量
- Refine By People：可依姓名、機構、作者、編輯者、評論者來篩選
- Refine By Publications：可依出版品年代、出版品名稱、ACM DL 資料類型、出版品類型、內容形式和出版社來篩選
- Refine By Conferences：可依主辦者、事件、會議名稱來篩選

REFINE YOUR SEARCH

▼ Refine by Keywords

SEARCH

Discovered Terms

- [students](#) (376)
- [education](#) (344)
- [e - learning](#) (335)
- [content](#) (226)
- [universality](#) (171)
- [context](#) (176)
- [practice](#) (169)
- [experience](#) (144)

[More...](#)

作者專區

提供作者檔案專區，收錄此作者於 ACM DL 上所發布的所有文章，亦可利用主題及關鍵字來了解作者研究領域。



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Bibliometrics: publication history

Publication years	1978-2008
Publication count	378
Citation Count	1,497
Available for download	97
Downloads (6 Weeks)	465
Downloads (12 Months)	5,522

SEARCH

[Search Author's Publications](#)

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- Publication Years:在 ACM DL 內發佈文章之年份
- Publication Counts:累計作者發佈之文章數量
- Citation Counts:累計作者文章被引用次數
- Available for download:可被下載文章之總數量
- Downloads (6 Weeks) 近六週被下載次數：多到少排列
- Downloads (12 Months) 近一年被下載次數：多到少排列