

# 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 Algorithmics (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 (TRETSS)
- ✓ 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 portal interface. At the top, there is a navigation bar with the ACM logo and the word 'PORTAL'. Below this, there are links for 'Subscribe (Full Service)', 'Register (Free, Limited Service)', and 'Login'. A search bar is present with radio buttons for 'The ACM Digital Library' (selected) and 'The Guide', and a 'SEARCH' button. The main content area is divided into several sections:

- THE ACM DIGITAL LIBRARY**: A section with the text 'Full text of every article ever published by ACM.' and links for 'Using the ACM Digital Library' and 'Frequently Asked Questions (FAQ's)'.
- Recently loaded issues and proceedings:**: A section with a scrollable list of recent publications, including 'ACM Computing Surveys (CSUR) Volume 40 Issue 1', 'ACM Transactions on Applied Perception (TAP) Volume 4 Issue 4', 'ACM Transactions on Design Automation of Electronic Systems (TODAES) Volume 13 Issue 1', and 'ACM Transactions on Internet Technology (TOIT) Volume 9 Issue 2'.
- Advanced Search**: A link for 'Advanced Search'.
- Browse the Digital Library:**: A list of links for 'Journals', 'Magazines', 'Transactions', 'Proceedings', 'Newsletters', 'Publications by Affiliated Organizations', 'Special Interest Groups (SIGs)', and 'ACM Oral History interviews'.
- Personalized Services:**: A section with links for 'My Binders' and 'TOC Service', each with a brief description of the service.

Annotations with arrows point to various parts of the interface:

- '資料庫簡介' (Database Introduction) points to the 'THE ACM DIGITAL LIBRARY' section.
- '最近二週新出版期刊' (Newly Published Journals in the Last Two Weeks) points to the 'Recently loaded issues and proceedings' section.
- '簡易檢索' (Simple Search) points to the search bar.
- '進階檢索' (Advanced Search) points to the 'Advanced Search' link.
- '按資料類型瀏覽' (Browse by Document Type) points to the 'Browse the Digital Library' section.

## 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：

1. 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

Subscribe (Full Service) Register (Limited Service, Free) Login

Search:  The ACM Digital Library  The Guide

THE ACM DIGITAL LIBRARY Feedback

DL Home → Journals

Search within the ACM Journals:

Browse the ACM Journals:

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

可在期刊中限定搜尋

ACM 所有收錄的期刊

2. 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)

Subscribe (Full Service) Register (Limited Service, Free) Login

Search:  The ACM Digital Library  The Guide

THE ACM DIGITAL LIBRARY Feedback

DL Home → Journals → JACM

Search within Journal of the ACM (JACM):

Browse Journal of the ACM (JACM):

JACM

ISSN: 0004-5411

TOC Service

Current Issue  
Volume 55, Issue 2 (May 2008)

Archive  
Volume 1, Issue 1 (Jan. 1954)  
Volume 55, Issue 1 (February 2008)

The *Journal of the ACM (JACM)* serves as a venue for careful presentation of theoretical research in the core areas of computing: complexity of algorithms, computer architecture, system modeling, AI, data structures, database theory and graph theory, to name a few. The authors are world class scientists, writing to other scientists about advances, methods and findings behind the fundamentals.

可限定在單本期刊內容中搜尋

期刊內容的簡介

進入現刊目錄

進入所有卷期列表

### 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



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Publisher

ACM New York, NY, USA

Bibliometrics

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

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?](#)

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

#### ↑ 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 of

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，將本篇文章加入書籤
- 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

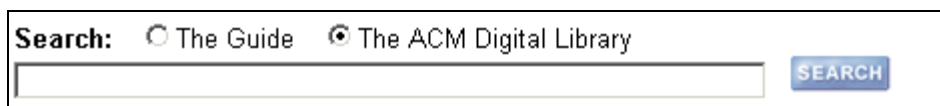
ACM Digital Library 的查詢功能分為簡易檢索與進階檢索，以下即針對兩種不同的檢索方式說明：

- 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



The screenshot shows a search interface with the following elements: a label 'Search:' followed by two radio buttons. The first radio button is labeled 'The Guide' and is unselected. The second radio button is labeled 'The ACM Digital Library' and is selected. Below the radio buttons is a text input field. To the right of the input field is a blue button with the text 'SEARCH' in white capital letters.

- 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
- ISBN/ISSN/DOI
- 出版資訊
- 會議名稱、時間、地點等
- 索引詞、關鍵字
- 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

作者/編輯者/評論者姓名

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

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

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

**Affiliations**  
Find company or school  
using  all  any  none of the affiliations

機構名稱

**Publication**  
Find publication  
using  all  any  none of the names  
Find publisher  
using  any  none of the names  
Published since [year] Published before [year]  
In publication types  Journal  Proceeding  Transaction  Magazine  Newsletter

出版品的名稱/年代/種類

**Conference**  
Find sponsor names  
using  all  any  none of the names  
Find location  
using  any  none of the locations  
Find year (yyyy)  
using  any  none of the years

會議舉辦地點年份

**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

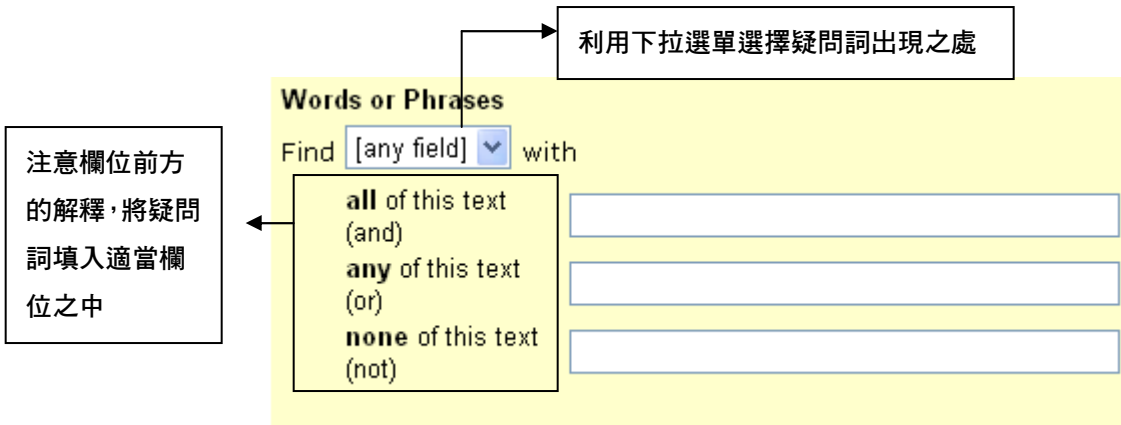
ACM 自訂索引分類系統

SEARCH

# 檢索技巧

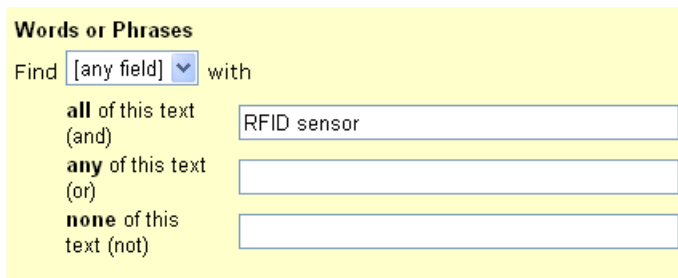
使用者可學習檢索技巧的使用，利用簡單的檢索式，快速且精確的找到資料。

## 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  with

<b>all</b> of this text (and)	<input type="text" value="RFID"/>
<b>any</b> of this text (or)	<input type="text" value="sensor"/>
<b>none</b> 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  with

<b>all</b> of this text (and)	<input type="text"/>
<b>any</b> of this text (or)	<input type="text" value="RFID sensor"/>
<b>none</b> 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  with

<b>all</b> of this text (and)	<input type="text" value="RFID"/>
<b>any</b> of this text (or)	<input type="text"/>
<b>none</b> 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 Portal search results for 'e-learning'. The page includes a search bar, navigation tabs for 'Search Results', 'Related Journals', 'Related Magazines', 'Related SIGs', and 'Related Conferences'. The search results are sorted by 'relevance'. Annotations with arrows point to specific features: '在現有檢索結果中再新增搜尋條件' points to the search bar; '檢索結果顯示方式格式' points to the 'expanded form' dropdown; and '選擇排序方式' points to the 'relevance' dropdown.

Annotations:

- 在現有檢索結果中再新增搜尋條件
- 檢索結果顯示方式格式
- 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。



**Diviyakant P Agrawal**

No contact information provided yet.

Authors:  
[Add personal information](#)

**Affiliation history**

- [Wayne State University](#)
- [North Carolina State University](#)
- [University of California](#)
- [IEEE](#)
- NEC Corporation

**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

**Collaborative Colleagues:**

<ul style="list-style-type: none"> <li><a href="#">Amr El Abbadi</a></li> <li><a href="#">Khaled A. S. Abdel Ghaffar</a></li> <li><a href="#">Sachin Abhyankar</a></li> <li><a href="#">Ajith P Abraham</a></li> <li><a href="#">George B III Adams</a></li> <li><a href="#">S Alireza Aghili</a></li> <li><a href="#">P Agrawal</a></li> <li><a href="#">J R Agre</a></li> <li><a href="#">Jonathan Russell Agre</a></li> <li><a href="#">Yusuf Akca</a></li> <li><a href="#">Winner E Alexander</a></li> <li><a href="#">Gustavo Alonso</a></li> <li><a href="#">Kumar Anand</a></li> <li><a href="#">Roy L Ashok</a></li> <li><a href="#">Nitin Auluck</a></li> <li><a href="#">Badrinath R Badrinath</a></li> <li><a href="#">Dennis Rex Bahler</a></li> <li><a href="#">Deepankar Bairagi</a></li> <li><a href="#">Rashmi Bajaj</a></li> <li><a href="#">R A Balla</a></li> <li><a href="#">Nagender Bandi</a></li> <li><a href="#">Torsha Banerjee</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Omer Egecioglu</a></li> <li><a href="#">Amr El Abbadi</a></li> <li><a href="#">Amr El El Abbadi</a></li> <li><a href="#">E El Abbadi</a></li> <li><a href="#">Hossam Amine El Halabi</a></li> <li><a href="#">Fatih Emekci</a></li> <li><a href="#">Tse yun Yun Feng</a></li> <li><a href="#">Ying Feng</a></li> <li><a href="#">Jack N Fenner</a></li> <li><a href="#">Hakan</a></li> <li><a href="#">Ferhatosmanoğlu</a></li> <li><a href="#">Hakan</a></li> <li><a href="#">Ferhatosmanoglu</a></li> <li><a href="#">Michael W Freeston</a></li> <li><a href="#">King Sun Sun Fu</a></li> <li><a href="#">Steven Paul Geffner</a></li> <li><a href="#">Edward Francis Gehringer</a></li> <li><a href="#">Abraham George</a></li> <li><a href="#">Sergei Gerasenko</a></li> <li><a href="#">Chittabrata Ghosh</a></li> <li><a href="#">H Gossain</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Vasudha Krishnaswamy</a></li> <li><a href="#">Anup Kumar</a></li> <li><a href="#">Ashwani Kumar</a></li> <li><a href="#">Sandeep Kumar</a></li> <li><a href="#">Vijay Kumar</a></li> <li><a href="#">Dhananjay Lal</a></li> <li><a href="#">A E Lang</a></li> <li><a href="#">Mary Larsgaard</a></li> <li><a href="#">Tsung Ying Lee</a></li> <li><a href="#">Hong Va Leong</a></li> <li><a href="#">Ja Song song Leu</a></li> <li><a href="#">Jenq Shiou Shiou</a></li> <li><a href="#">Leu</a></li> <li><a href="#">Hua Gang Gang Li</a></li> <li><a href="#">Li Li</a></li> <li><a href="#">Wingning xin Li</a></li> <li><a href="#">Mei Liu</a></li> <li><a href="#">Qingming Ming Luo</a></li> <li><a href="#">I O Mahgoub</a></li> <li><a href="#">Hang Kwong Mak</a></li> <li><a href="#">Rajeswari Malladi</a></li> <li><a href="#">A Malpani</a></li> </ul>	<ul style="list-style-type: none"> <li><a href="#">Yukiyoshi Saito</a></li> <li><a href="#">Lakshmi Santhanam</a></li> <li><a href="#">Sugata Sanyal</a></li> <li><a href="#">Amitabh Saran</a></li> <li><a href="#">A M Sastri</a></li> <li><a href="#">O T Satyanarayanan</a></li> <li><a href="#">Arsany Sawires</a></li> <li><a href="#">H J Joerg Schek</a></li> <li><a href="#">A Schmidt</a></li> <li><a href="#">Jeffery A Schmidt</a></li> <li><a href="#">Eric Arnold Schweitz</a></li> <li><a href="#">S Sengupta</a></li> <li><a href="#">N Sharma</a></li> <li><a href="#">Kezuyuki Shimazu</a></li> <li><a href="#">Nisheeth Shrivastava</a></li> <li><a href="#">Shridhar Bhalchandra Shukla</a></li> <li><a href="#">Howard Jay Siegel</a></li> <li><a href="#">Ambuj Kumar Singh</a></li> <li><a href="#">Radu Sion</a></li> <li><a href="#">Terrence R Smith</a></li> <li><a href="#">Joana Roxana Stanoi</a></li> <li><a href="#">Robert Christian</a></li> </ul>
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**ROLE**

- [Author only](#)
- [Editor only](#)
- [Advisor only](#)
- [Other only](#)
- [All roles](#)

**AUTHOR'S COLLEAGUES**

▶ See all colleagues of this author

**SUBJECT AREAS**

[See all subject areas](#)

**KEYWORDS**

[See all author supplied keywords](#)

15



- 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

# 茫茫資訊大海中來自專家的指引

-- ACM Digital Library 與 Computing Reviews 評論資料庫結合使用 --

## Q1：什麼是 Computing Reviews?

資訊科學的發展可謂是日新月異，每一年發表在期刊研究、研討會論文、專業書籍等各樣的文章不計其數，如何從大量的文獻中篩選重要的資訊，**Computing Reviews** 提供您來自專家的指引。**Computing Reviews** 為由 Association for Computing Machinery (ACM) 和 Reviews.com 合作出版的電腦評論資料庫，由來自全球資訊科學的專家幫您審視文獻、撰寫評論，評論內容包括書籍、期刊、會議記錄、論文集、技術報告等，過刊回溯至 1985 年，並每日增加新的評論。

因此使用者可先閱讀專家檢視過所撰寫的評論內容，再決定是否需要進一步找全文來閱讀，因評論內容相對全文而言較為簡短，故可幫助讀者您事半功倍地學習。閱讀 Review Articles 等於是透過專家的觀點來對原始文獻有初步認知，藉由評論者與作者的意見交換，讓您可從多方角度來探討電腦科學，不僅節省了讀者許多資料研讀時間，還提供了一個腦力激盪的管道及媒介！

## Q2：ACM 如何與 Computing Reviews 搭配使用？

### 方法一：從 ACM 連結至 Computing Reviews

可從篩選功能挑選出被評論的 ACM 文獻，進而再連結至 Computing Reviews 閱讀評論文章

**步驟 1.** 當您在 ACM 輸入關鍵字檢索後，系統會呈現如下結果畫面，您可利用檢索結果頁面左方精確化搜尋選項中的 Refine by People 內篩選 Reviewer，或選擇 More 來展開所有的評論者

The screenshot shows the ACM Digital Library search results for the keyword 'rfid'. The search results page includes a search bar at the top with the text 'rfid' and a 'SEARCH' button. Below the search bar, it indicates 'Searching for: rfid' and 'Found 3,430 within Publications from ACM and Affiliated Organizations (Full-Text collection)'. The page is divided into a left sidebar for refining the search and a main content area for search results. The 'Refine by People' option in the sidebar is highlighted with a pink box. The search results list two entries, both from the 'RFIDSec'11: Proceedings of the 7th international conference on RFID Security and Privacy, published by Springer-Verlag in June 2011. The first entry is 'Hierarchical ECC-Based RFID authentication protocol' by Lejla Batina, Stefaan Seys, Dave Singelee, and Ingrid Verbauwhede. The second entry is 'A scalable RFID authentication protocol supporting ownership transfer and controlled delegation' by Albert Fernández-Mir, Rolando Trujillo-Rasua, Jordi Castellà-Roca, and Josep Domingo-Ferrer. Both entries include bibliometric data such as downloads and citation counts.

**步驟 2.** 在 Refine by People> Reviewer，使用評論者的姓名來進行篩選，檢設我們在原先的檢索結果中選擇 Hazeltine, Barrett 評論過的 ACM 全文

ACM DL DIGITAL LIBRARY Taiwan Demo IP for Presentation

Searching for: rfid (start a new search)

Found 3,430 within Publications from ACM and Affiliated Organizations (Full-Text collection)

Expand your search to The ACM Guide to Computing Literature (Bibliographic citations from major publishers in computing: 1,973,054 records)

REFINE YOUR SEARCH

Search Results Related Journals Related Magazines Related SIGS Related Conferences

Refine by Keywords Results 1 - 20 of 3,430 Sort by relevance in expanded form

Refine by People

- Names
- Institutions
- Authors
- Editors
- Reviewers
  - Hazeltine, Barrett (6)
  - Reid, Brad D. (2)
  - Podolsky, Joe L. (2)
  - Mihalo, William Edward (2)
  - Ektare, Arun. (2)
  - ScheffPatent Attorney, Chaim M. (2)
  - Bradford, James H. (2)
  - Hoffer, Edward Peter (1)
  - More...

Refine by Publications

Refine by Conferences

ADVANCED SEARCH

1 Hierarchical ECC-Based RFID authentication protocol  
Lejla Batina, Stefaan Seys, Dave Singelee, Ingrid Verbauwhede  
June 2011 **RFIDSec'11: Proceedings of the 7th international conference on RFID Security and Privacy**  
Publisher: Springer-Verlag  
Full text available: [Publisher Site](#)  
**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

RFID (Radio Frequency Identification) technology enables readers to scan remote RFID tags, and label the objects and people to which they are attached. Current cryptographic authentication protocols deployed in heterogeneous environments are often not ...  
**Keywords:** ECC, RFID, authentication, hierarchical groups, privacy

2 A scalable RFID authentication protocol supporting ownership transfer and controlled delegation  
Albert Fernández-Mir, Rolando Trujillo-Rasua, Jordi Castellà-Roca, Josep Domingo-Ferrer  
June 2011 **RFIDSec'11: Proceedings of the 7th international conference on RFID Security and Privacy**  
Publisher: Springer-Verlag  
Full text available: [Publisher Site](#)  
**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

**步驟 3.** 則系統將按照您篩選的條件，顯示該位評論者所評論過的 ACM 全文，在此說明範例中則出現 Hazeltine, Barrett 所評論過的 6 篇 ACM 全文，您可於此選擇欲瀏覽的文章

ACM DL DIGITAL LIBRARY Taiwan Demo IP for Presentation

Searching for: rfid (start a new search)

Found 6 within Publications from ACM and Affiliated Organizations (Full-Text collection)

Refinements (remove all) click each refinement below to remove

Reviewers: Hazeltine, Barrett

Expand your search to The ACM Guide to Computing Literature (Bibliographic citations from major publishers in computing: 1,973,054 records)

REFINE YOUR SEARCH

Search Results Related Journals Related Magazines Related SIGS Related Conferences

Refine by Keywords Results 1 - 6 of 6 Sort by relevance in expanded form

Refine by People

- Names
- Institutions
- Authors
- Reviewers

Refine by Publications

- Publication Year
- Publication Names
- ACM Publications
- All Publications
- Content Formats
- Publishers

Refine by Conferences

- Sponsors
- Proceeding Series

ADVANCED SEARCH

1 A survey of RFID privacy approaches  
Marc Langheinrich  
August 2009 **Personal and Ubiquitous Computing**, Volume 13 Issue 6  
Publisher: Springer-Verlag  
Full text available: [Pdf](#) (308.39 KB)  
**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 496, Downloads (Overall): 2021, Citation Count: 7

A bewildering number of proposals have offered solutions to the privacy problems inherent in RFID communication. This article tries to give an overview of the currently discussed approaches and their attributes.  
**Keywords:** Privacy, RFID

2 An evaluation of product review modalities for mobile phones  
Felix von Reischach, Erica Dubach, Florian Michahelles, Albrecht Schmidt  
September 2010 **MobileHCI '10: Proceedings of the 12th international conference on Human computer interaction with mobile devices and services**  
Publisher: ACM [Request Permissions](#)

**步驟 4.** 當您選擇欲瀏覽的文章進入該篇文章的資訊頁面後，先不要急著開啟 PDF 全文閱讀，可先點選 Reviews 的標籤，觀看 Computing Reviews 專家針對該篇文章所撰寫的評論，點選 more 看評論內容或是點選 Computing Reviews 的圖示連結至 Computing Reviews 的網站

The screenshot shows the ACM Digital Library interface. At the top, there's the ACM DL logo and 'Taiwan Demo IP for Presentation'. The article title is 'A survey of RFID privacy approaches' by Marc Langheinrich. The 'Reviews' tab is highlighted with a pink box. Below the article details, there's a 'Computing Reviews' button with a red arrow pointing to it. A 'more...' link is also highlighted with a pink box. The right sidebar contains 'Tools and Resources' and 'Tags'.

**步驟 5.** 連結至 Computing Reviews 的網站，觀看評論文章

The screenshot shows the Computing Reviews website. The article title 'A survey of RFID privacy approaches' is highlighted with a pink box. A callout box with the text '評論文章' (Review Article) points to the article content. The right sidebar shows 'Recommendations' and 'Related Topics'.

## 方法二：從 Computing Reviews 連結至 ACM

步驟 1. 在 Computing Reviews 中搜尋單位有訂購全文的評論文章，以 ACM 為例。利用 Computing Reviews 的 Fielded Search，搜尋出版社(Publisher) 是 ACM 的評論文章

The screenshot shows the 'Computing Reviews' website with a search interface. The top navigation bar includes 'TODAY'S ISSUE', 'HOT TOPICS', 'SEARCH', 'BROWSE', 'RECOMMENDED', 'MY ACCOUNT', and 'LOGOUT'. Below this, there are tabs for 'SIMPLE', 'ADVANCED', 'FIELDED', and 'SAVED'. The 'FIELDED' search section is active, showing search criteria for Publisher (ACM), Author, Source Title, and Reviewer. Search options include 'Only' (Journals, Proceedings, Divisible Books, Whole Books, Other), 'Classification' (All Topics Categories, General Terms), 'Date' (All, From: Aug 2011, To: Aug 2012), 'Results' (Partial Review, Sort by: Relevancy), and 'Display' (10 per page, Order: Descending). A 'Search' button is located at the bottom right of the search options section.

步驟 2. 在檢索結果頁面，選擇任一篇檢索結果進入瀏覽該篇評論文章

The screenshot shows the search results page for 'publisher:ACM'. The top navigation bar is the same as in the previous screenshot. The search criteria 'publisher:ACM' is shown in the search bar. Below the search bar, there are options for 'All MediaTypes', 'Relevancy', and 'Descending Order'. The results are displayed in a table with columns for 'Relevancy' and 'Title'. The first result is highlighted with a red arrow:

Relevancy	Title
39%	<a href="#">Is Wikipedia link structure different?</a> Kamps J., Koolen M. WSDM 2009, Barcelona, Spain, Feb 9-12 2009, 232-241, 2009. Type: Proceedings Link structure plays an important role in the Web retrieval of relevant information. Characteristics of link structure are useful in measuring the relevance of a page. A page in the page pool has three parameters that determine its relevance: an...
39%	<a href="#">A comparative user study on rating vs. personality quiz based preference elicitation methods</a> Hu R., Pu P. IUI 2009, Sanibel Island, FL, Feb 8-11 2009, 367-372, 2009. Type: Proceedings Generating recommendations for customers--whether books, movies, or dating prospects--is easier if the customers' preferences are captured accurately. This paper compares two Web sites that have different approaches for capturing...
39%	<a href="#">Evaluation of semantic events for legal case retrieval</a> Maxwell K., Oberlander J., Lavrenko V. ESAIR 2009, Barcelona, Spain, Feb 9-9 2009, 39-41, 2009. Type: Proceedings This paper considers the possibility of improving the retrieval of information from legal cases by incorporating semantic elements into the search process. Since legal cases often turn on the cause or causer of an illegal action, it would seem...
39%	<a href="#">MDS: a novel method for class imbalance learning</a> Chen L., Hsu C., Chang Y. ICUIIMC 2009, Suwon, Korea, Jan 15-16 2009, 544-549, 2009. Type: Proceedings The class imbalance problem refers to the fact that, in real-world data, there is often a majority class of examples and a minority class of examples. Such a dataset is called an imbalanced dataset. A classifier induced from such a set has high

步驟 3. 閱讀完評論文章後，認為有閱讀該篇被評論文章的原文，可點選上方的 Full Text

The screenshot shows the 'Review' page for the article 'Is Wikipedia link structure different?' by Kamps J. and Koolen M. The page includes a search bar, a 'Full Text' button (highlighted with a pink box), and a 'Recommendations' sidebar. A callout box points to the 'Full Text' button with the text '連結回被評論文章的原文'.

步驟 4. 點選 Full Text 後，系統會出現如下頁面，若學校圖書館有訂購 ACM 資料庫，則有權限看該篇被評論的 ACM 會議紀錄的原文，因此可點選 Subscription > E-Article

The screenshot shows the 'Full Text' page for the same article. It features two main sections: 'Subscription' and 'Purchase'. The 'Subscription' section includes an 'E-Article' button, and the 'Purchase' section includes an 'Order' button. Red arrows point from callout boxes to these buttons. The top callout box says '若單位有訂購該篇被評論文章的原文，點此連結回原資料庫觀看原文' (If your unit has subscribed to the original text of the article being reviewed, click this link to return to the original database to view the original text). The bottom callout box says '若單位未訂購該篇被評論文章的原文，點此連結線上購買單篇文章' (If your unit has not subscribed to the original text of the article being reviewed, click this link to purchase the single article online).

步驟 5. 連結回 ACM 資料庫，下載 PDF，觀看被評論文章的原文全文

The screenshot shows the ACM Digital Library interface. At the top left is the ACM DL logo. The page title is "Is Wikipedia link structure different?". Below the title, it lists the authors: Jaap Kamps and Marijn Koolen, both from the University of Amsterdam. The article is published in the "WSDM '09 Proceedings of the Second ACM International Conference on Web Search and Data Mining", pages 232-241. A "Bibliometrics" section shows 7 downloads in 6 weeks, 68 in 12 months, and a citation count of 6. On the right, there are "Tools and Resources" including TOC Service, Email, RSS, Save to Binder, and Export Formats. A "Share" section includes social media icons. At the bottom, there are navigation tabs for Abstract, Authors, References, Cited By, Index Terms, Publication, Reviews, Comments, and Table of Contents. The abstract text is partially visible: "In this paper, we investigate the difference between Wikipedia and Web link structure with respect to their value as indicators of the relevance of a page for a given topic of request. Our experimental evidence is from two IR test-collections: the .GOV collection used at..."

以上方式介紹 CR 和 ACM 的連結使用，讀者也可依此方式在 Computing Reviews 內檢索其他學校有訂購全文資料庫的評論文章，若學校未訂購被評論文章的原文，也可以在 Full Text 連結處點選 Purchase > order 線上購買單篇文章。

如對 ACM Digital Library 和 Computing Reviews 的使用有任何問題，歡迎您與長智文化聯繫  
台北市南京東路二段 72 號 8 樓 TEL:02-2571-3369 客服信箱:Service@igrouptaiwan.com

