

ACM DIGITAL LIBRARY

目 次

| | |
|------------------------|--------------------|
| 資料庫簡介 | 1 |
| 資料庫主畫面 | 4 |
| 查詢功能 | 5 |
| 檢索技巧 | 7 |
| 瀏覽功能 | 9 |
| 資料顯示格式 | 10 |

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，至今約有超過 65,000 頁資料。

Journals:

- ✓ ACM Computing Surveys (CSUR)
- ✓ ACM Journal of Computer Documentation (JCD)
- ✓ Journal of Experimental Algorithmics (JEA)
- ✓ Journal of the ACM (JACM)
- ✓ Journal on Educational Resources in Computing (JERIC)

Magazines:

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

Transactions:

- ✓ ACM Letters on Programming Languages and Systems (LOPLAS)
- ✓ ACM Transactions on Architecture and Code Optimization (TACO)
- ✓ ACM Transactions on Asian Language Information Processing (TALIP)
- ✓ 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 and System Security (TISSEC)
- ✓ ACM Transactions on Information Systems (TOIS)
- ✓ ACM Transactions on Internet Technology (TOIT)
- ✓ ACM Transactions on Mathematical Software (TOMS)
- ✓ ACM Transactions on Modeling and Computer Simulation (TOMACS)
- ✓ ACM Transactions on Programming Languages and Systems (TOPLAS)
- ✓ ACM Transactions on Software Engineering and Methodology (TOSEM)
- ✓ IEEE/ACM Transactions on Networking (TON)

Publications by Affiliated Organizations

- ✓ ACL: Annual Meeting of the ACL
- ✓ ANLC: Applied Natural Language Conferences
- ✓ CASCON: IBM Centre for Advanced Studies Conference
- ✓ COLING: International Conference On Computational Linguistics
- ✓ Communications of the AIS
- ✓ Computational Linguistics
- ✓ EACL: European Chapter Meeting of the ACL
- ✓ International Journal of Network Management
- ✓ Journal of the AIS
- ✓ Linux Journal
- ✓ Mobile Networks and Applications
- ✓ Personal and Ubiquitous Computing
- ✓ The Journal of Computing in Small Colleges
- ✓ The Journal of Machine Learning Research
- ✓ The VLDB Journal — The International Journal on Very Large Data Bases

- ✓ TINLAP: Theoretical Issues In Natural Language Processing
- ✓ 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。以主題分類，資料庫內約有十二萬頁全文。

金珊資訊有限公司為 ACM Digital Library 在臺灣之獨家代理，若有任何問題，請與我們聯繫：

CSIS 金珊資訊有限公司 <http://www.csis.com.tw>
Chin Shan Information Service Co., Ltd

23511 台北縣中和市建一路166號10F之1 Tel : 02-82263123 Fax : 02-82263188
80660 高雄市前鎮區中山二路2號24F之6 Tel : 07-3337702 Fax : 07-3339348

資料庫主畫面

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'. To the right of the logo, there are links for 'My Account', 'My Binders', and 'Logout: Thein Zin'. Below this, there is a search bar with the text 'Search: The Guide' and 'The ACM Digital Library' (selected), and a 'SEARCH' button. On the left side, there are three callout boxes: '資料庫簡介' (Database Introduction) pointing to the 'Understanding the ACM Digital Library' link; '最新一期期刊' (Latest Journals) pointing to the 'Recently loaded issues and proceedings' section; and '簡易檢索' (Simple Search) pointing to the search bar. On the right side, there are three callout boxes: '進階檢索' (Advanced Search) pointing to the 'Advanced Search' link; '瀏覽期刊' (Browse Journals) pointing to the 'Browse the Digital Library' section; and '簡易檢索' (Simple Search) pointing to the search bar. The main content area is divided into several sections: 'THE ACM DIGITAL LIBRARY' with a description and a link; 'Feedback on the new design' with a list of links; 'Recently loaded issues and proceedings' with a list of journal titles and volume/issue numbers; 'Personalized Services: Thein Zin' with links for 'My Binders' and 'TOC Service'; 'COMPUTING REVIEWS' with a description; and 'THE GUIDE TO COMPUTING LITERATURE' with a description and a link.

資料庫簡介

最新一期期刊

簡易檢索

進階檢索

瀏覽期刊

PORTAL

My Account My Binders Logout: Thein Zin

Search: The Guide The ACM Digital Library

SEARCH

THE ACM DIGITAL LIBRARY

Full text of every article ever published by ACM.

[Understanding the ACM Digital Library.](#)

Feedback on the new design

- [Report a problem](#)
Report a good or bad event with the new design.
- [Satisfaction survey](#)
Give your opinion of the new design after using it awhile.

Recently loaded issues and proceedings:
(available in the DL within the past 2 weeks)

Journal of the ACM (JACM)
[Volume 50 Issue 4](#)

ACM Transactions on Asian Language Information Processing (TALIP)
[Volume 1 Issue 4](#)

ACM Transactions on Design Automation of Electronic Systems (TODAES)
[Volume 8 Issue 3](#)

Communications of the ACM
[Volume 46 Issue 7](#)

Ubiquity
[Volume 4 Issue 15](#)
[Volume 4 Issue 14](#)
[Volume 4 Issue 13](#)

Advanced Search

Browse the Digital Library:

- [Journals](#)
- [Magazines](#)
- [Transactions](#)
- [Proceedings](#)
- [Newsletters](#)
- [Publications by Affiliated Organizations](#)
- [Special Interest Groups \(SIGs\)](#)

Personalized Services: Thein Zin

[My Binders](#)
Save search results and queries. Share binders with colleagues and build bibliographies.

[TOC Service](#)
Receive the table of contents via email as new issues or proceedings become available.

COMPUTING REVIEWS
The Most Comprehensive Resource For the Computing Community

Access [critical reviews](#) of the computing literature.

THE GUIDE TO COMPUTING LITERATURE

Bibliographic collection
A bibliography from major publishers in computing with 600,000 entries.
[Go to The Guide](#)

查詢功能

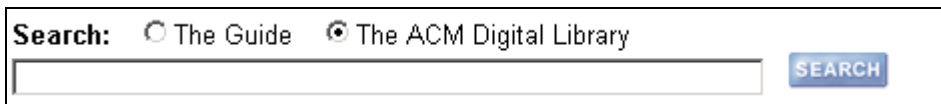
ACM Digital Library 的查詢功能共分簡易檢索與進階檢索，以下即針對兩種不同的檢索方式說明：

● 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
- 主題詞、關鍵字
- 辭彙出現處／文獻層次



SEARCH

THE ACM DIGITAL LIBRARY

Advanced Search

[? Search Tips](#)

Enter words, phrases or names below. Surround phrases or full names with double quotation marks.

Desired Results:

must have **all** of the words or phrases

must have **any** of the words or phrases

must have **none** of the words or phrases

Name or Affiliation:

Authored by: all any none

Edited by: all any none

Reviewed by: all any none

Only search in*:

Title Abstract Review All Information

SEARCH

*Searches will be performed on all available information, including full text where available, unless specified above.

ISBN / ISSN: Exact Expand

DOI: Exact Expand

SEARCH

Published:

By: all any none

In: all any none

Since:

Month Year

Before:

Month Year

As: Any type of publication

Conference Proceeding:

Sponsored By:

Conference Location:

Conference Date:

mm-dd-yyyy

SEARCH

Classification: CCS Primary Only

Classified as: all any none

Subject Descriptor: all any none

Keyword Assigned: all any none

Results must have accessible:

Full Text Abstract Review

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. 布林邏輯的使用

| 布林邏輯 | 意義 | 範例 |
|------|---------|------------------------|
| AND | 概念的交集 | dram AND semiconductor |
| OR | 概念的聯集 | notebook OR laptop |
| NOT | 不包含特定概念 | programming NOT script |

2. 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 zoopraxiscope |
| ? | 字中切截 可查詢不同拼法之詞 | fl??ss，可查詢 fleiss 與 fliess |

3. 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"

4. 大小寫

- 全部大寫：大小寫格式均可查到
- 全部小寫：大小寫格式均可查到
- 首字大寫：僅可查到首字大寫之格式，可用於尋找作者姓氏。

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 |

6. 日期的表達

系統預設日期格式為：dd-mm-yy（日一月一年）。

使用簡易檢索時，若需要檢索日期，請使用以下符號表示，如：DATE > 3-23-00：

- 等於 =
- 大於等於 =>
- 小於 <
- 小於等於 <=
- 大於 >

7. 限定欄位檢索

使用者可限定檢索詞僅出現於特定欄位，可使用 <IN> 來限定，例：
computer <IN> title，可查到文章篇名中包括 computer 之資料。

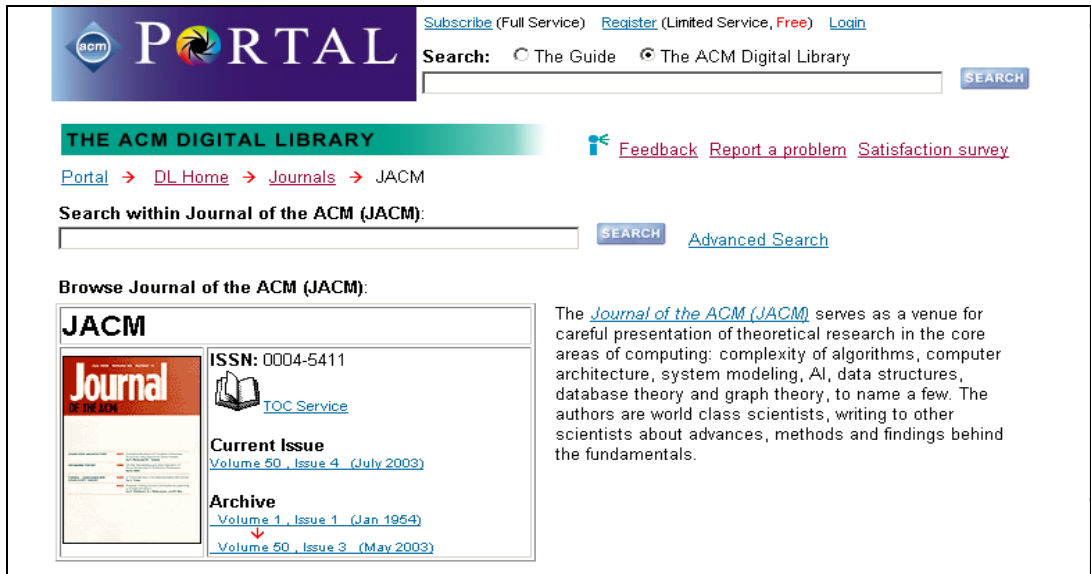
瀏覽功能

系統提供瀏覽功能，使用者可依不同的資料類型，瀏覽資料：

- Journal 期刊
- Magazine 雜誌
- Transaction 會刊
- Proceedings 會議記錄
- Newsletters 通訊
- Publications by Affiliated Organizations 附屬機構出版品

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
2. 點選出版品名，例：Journal of the ACM
3. 系統顯示該期刊之簡介，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



The screenshot shows the ACM Digital Library portal. At the top, there is a navigation bar with the ACM logo and the word "PORTAL" in large letters. Below this, there are links for "Subscribe (Full Service)", "Register (Limited Service, Free)", and "Login". A search bar is present with the text "Search: The Guide" and "The ACM Digital Library" and a "SEARCH" button. Below the search bar, there is a green banner for "THE ACM DIGITAL LIBRARY" with links for "Feedback", "Report a problem", and "Satisfaction survey". The breadcrumb trail shows "Portal -> DL Home -> Journals -> JACM". Below this, there is a search bar for "Search within Journal of the ACM (JACM):" with a "SEARCH" button and a link to "Advanced Search". The main content area is titled "Browse Journal of the ACM (JACM):" and features a box for "JACM" with a thumbnail of the journal cover, the ISSN "0004-5411", a "TOC Service" link, and links for "Current Issue" (Volume 50, Issue 4, July 2003) and "Archive" (Volume 1, Issue 1, Jan 1954) and "Volume 50, Issue 3 (May 2003)". To the right of this box is a paragraph of text describing the journal's focus on theoretical research in computing.

在特定期刊中查詢文章

進入期刊介紹畫面（如上）後，在上方空白欄位中輸入檢索詞，點選 Search 即可。或利用進階查詢（Advanced Search），用更多樣的檢索方式，在特定期刊中查找資料。

資料顯示格式

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：依檢索詞在欄位中的出現次數排列，出現次數最多者相關程度愈高，排在愈前面
- **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

檢索結果顯示畫面

The screenshot shows the ACM Digital Library search results interface. At the top, there is a search bar with the term 'taiwan' and a 'SEARCH' button. Below the search bar, there are navigation links for 'Subscribe', 'Register', and 'Login'. The main content area displays the search results for 'taiwan', showing 'Results 1 - 6 of 6'. The first result is 'A comprehensive study of the complexity of multiparty interaction' by Yuh-Jzer Joung and Scott A. Smolka, published in the Journal of the ACM (JACM) in January 1996. The result includes a link to the full text (pdf, 3.68 MB) and additional information links. The interface also features a 'Sort results by' dropdown menu set to 'relevance', a 'Display results' dropdown set to 'expanded form', and a 'Relevance scale' indicator. Annotations in Chinese are overlaid on the screenshot, pointing to various elements: '檢索結果顯示' (Search results display) points to the search bar; '選擇排序方式' (Select sorting method) points to the 'Sort results by' dropdown; '在現有檢索結果中再次搜尋' (Search again in existing search results) points to the search bar; '線上說明' (Online help) points to the 'Search Tips' link; '勾選檢索結果是否以新視窗開啟' (Check if search results are opened in a new window) points to the 'Open results in a new window' checkbox; and '書目資料與相關度' (Bibliography information and relevance) points to the 'Relevance scale' indicator.

使用方式：

- 點選文章題名，即可查看該文章之詳細書目資料、摘要與全文
- 從下拉選單中選擇所需的排序方式，系統即會將檢索結果重新排序
- 可在目前檢索結果中再次搜尋，僅需在上方空白欄位中輸入檢索詞；或點選 Advanced Search（進階檢索）。

書目資料顯示格式

PORTAL [My Account](#) [My Binders](#) [Logout:](#)

Search: The Guide The ACM Digital Library

THE ACM DIGITAL LIBRARY [Feedback](#) [Report a problem](#) [Satisfaction survey](#)

A novel scheme using the information of departure processes for delay guarantees of distributed VBR traffic

Full text Pdf (252 KB)

Source [IEEE/ACM Transactions on Networking \(TON\)](#) [archive](#)
Volume 9 , Issue 4 (August 2001) [table of contents](#)
Pages: Pages: 452 - 463
Year of Publication: 2001
ISSN:1063-6692

Authors [Zhi-Ren Chang](#) Winbond Electronics Corp., Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.
[I-Chung Lee](#) National Tsing Hua University, Hsinchu 30013 Taiwan, R.O.C.
[Cheng-Shang Chang](#) National Tsing Hua University, Hsinchu 30013 Taiwan, R.O.C.
[Chien-Hsin Li](#) PRIMAX Electronics Ltd., Neihu 114, Taipei, Taiwan, R.O.C.
[Ben-Li Sui](#) Institute for Information Industry, 5FL, Taipei, Taiwan, R.O.C.

Publisher ACM Press New York, NY, USA

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

Tools and Actions: [Discussions](#) [Find similar Articles](#) [Review this Article](#)
[Save this Article to a Binder](#) [Display in BibTex Format](#)

DOI Bookmark: Use this link to bookmark this Article: <http://doi.acm.org/10.1145/504640.504647>
[What is a DOI?](#)

書目資料、全文連結

摘要、參考文獻、索引詞、DOI號碼等連結

摘要

↑ ABSTRACT

In this paper, we address the problem of providing delay guarantees in a *distributed* environment, e.g., a wireless network or a cable network. In a distributed environment, the information of the arrival process is, in general, not available to the network. Due to the lack of such information, traffic regulators and scheduling policies discussed in the literature cannot be directly applied. To cope with the problem, we propose a *distributed* traffic regulator (DTR) that uses the information of the *departure* process. Based on such DTRs, we propose the distributed earliest deadline first (DED) scheduling policy. For the DED scheme, we derive an admission-control criterion and show that the maximum delay can be guaranteed if the criterion is satisfied.

參考文獻

↑ REFERENCES

Note: OCR errors in the Reference List extracted from the full text article. ACM has opted to expose the complete list of references in only correct and linked references.

- 1 R. Agrawal and R. Rajan, "Performance bounds for guaranteed and adaptive services," IBM RC 20649, 1996.
- 2 J.Y. Le Boudec, "Application of network calculus to guarantee service networks," IEEE Trans. Inform. Theory, vol. 44, pp. 1087-1096, 1998.
- 3 W. Crowther, R. Rettberg, D. Walden, S. Ornstein, and E. Heart, "A system for broadcast communication: Reservation-ALOHA," in Proc. 6th Hawaii Int. Conf. Systems Science, 1973, pp. 596-603.
- 4 C.S. Chang, "Stability, queue length and delay of deterministic and stochastic queuing networks," IEEE Trans. Automat. Contr., vol. 39, pp. 913-931, 1994.
- 5 --, "On deterministic traffic regulation and service guarantees: A systematic approach by filtering," IEEE Trans. Inform. Theory, vol. 44, pp. 1097-1110, 1998.
- 6 Cheng-Shang Chang, *Performance Guarantees in Communication Networks*, Springer-Verlag, London, UK, 2000.
- 7 C. S. Chang, K. C. Chen, M. Y. You, and J. E. Chang, "Guaranteed quality-of-service wireless access to ATM networks," IEEE J. Select. Areas Commun., vol. 15, pp. 106-118, 1997.
- 8 K.C. Chen, "Medium access control of wireless local area networks for mobile computing," IEEE Network, pp. 50-63, Sep./Oct. 1994.
- 9 R.L. Cruz, "A calculus for network delay, Part I: Network elements in isolation," IEEE Trans. Inform. Theory, vol. 37, pp. 114-131, 1991.
- 10 --, "A calculus for network delay, Part II: Network analysis," IEEE Trans. Inform. Theory, vol. 37, pp. 132-141, 1991.
- 11 ---, "Quality of service guarantees in virtual circuit switched networks," IEEE J. Select. Areas Commun., vol. 13, pp. 1048-1056, 1995.
- 12 R.L. Cruz and C. M. Okino, "Service guarantees for window flow control," in Proc. 34th Allerton Conf. Communication, Control, and Computing, Monticello, IL, Oct. 1996.
- 13 Norival P. Figueira, Joseph Pasquale, "An upper bound on delay for the VirtualClock service discipline," IEEE/ACM Transactions on Networking (TON), v.3 n.4, p.399-408, Aug. 1995
- 14 Leonidas Georgiadis, Roch Guérin, Vinod Peris, Kumar N. Sivarajan, "Efficient network QoS provisioning based on per node traffic shaping," IEEE/ACM Transactions on Networking (TON), v.4 n.4, p.492-501, Aug. 1996
- 15 D.J. Goodman, R. A. Valenzuela, K. T. Gayliard, and B. Ramamurthi, "Packet reservation multiple access for local wireless communications," IEEE Trans. Commun., vol. 37, pp. 885-890, 1989.
- 16 M.J. Karol, Z. Liu, and K. Y. Eng, "Distributed-queueing request update multiple access (DQRUMA) for wireless packet (ATM) networks," in IEEE Int. Conf. Communications, Seattle, WA, 1995.
- 17 C. L. Liu, James W. Layland, "Scheduling Algorithms for Multiprogramming in a Hard-Real-Time Environment," Journal of the ACM (JACM), v.20 n.1, p.46-61, Jan. 1973
- 18 Abhay K. Parekh, Robert G. Gallager, "A generalized processor sharing approach to flow control in integrated services networks: the single-node case," IEEE/ACM Transactions on Networking (TON), v.1 n.3, p.344-357, June 1993
- 19 B. Prasad, M. Alam, J. R. Farserotu, "Wireless next generation: 4G?, Multiaccess, mobility and teletraffic for wireless communications: volume 5," Kluwer Academic Publishers, Norwell, MA, 2000
- 20 X. Qiu, K. Chawla, L. F. Chang, J. Chuang, N. Sollenberger, and J. Whitehead, "RLC/MAC design alternatives for supporting integrated services over EGPRS," IEEE Personal Commun., vol. 7, pp. 20--33, Apr. 2000.
- 21 H. Sariowan, "A service-curve approach to performance guarantees in integrated-service networks," Ph.D. dissertation, Univ. California, San Diego, 1996.
- 22 Geoffrey G. Xie, Simon S. Lam, "Delay guarantee of virtual clock server," IEEE/ACM Transactions on Networking (TON), v.3 n.6, p.692-699, Dec. 1995
- 23 H. Zhang, "Service disciplines for guaranteed performance service in packet-switching networks," Proc. IEEE, vol. 83, pp. 1374-1396, 1995.
- 24 Lixia Zhang, "VirtualClock: a new traffic control algorithm for packet-switched networks," ACM Transactions on Computer Systems (TOCS), v.9 n.2, p.101-124, May 1991
- 25 D. Zhao, X. Shen, "Efficient call admission control for heterogeneous services in wireless mobile ATM network," Commun. Mag., pp. 72-78, Oct. 2000.

索引詞

↑ INDEX TERMS

Primary Classification:

- C. Computer Systems Organization
 - C.2 COMPUTER-COMMUNICATION NETWORKS
 - C.2.1 Network Architecture and Design
 - Subjects: Wireless communication

Additional Classification:

- C. Computer Systems Organization
 - C.2 COMPUTER-COMMUNICATION NETWORKS
 - C.2.1 Network Architecture and Design
 - Subjects: Distributed networks

General Terms:

Algorithms, E

關鍵詞

Keywords:

Admission control, distributed systems, scheduling, traffic regulation

↑ Peer to Peer - Readers of this Article have also read:

- [Data structures for quadtree approximation and compression](#)
Communications of the ACM 28, 9
Hanan Samet
- [The state of the art in automating usability evaluation of user interfaces](#)
ACM Computing Surveys (CSUR) 33, 4
- [A lifecycle process for the effective reuse of commercial off-the-shelf \(COTS\) software](#)
Proceedings of the 1999 symposium on Software reusability
Christine L. Braun
- [A catalog of techniques for resolving packaging mismatch](#)
Proceedings of the 1999 symposium on Software reusability
Robert DeLine
- [Using adapters to reduce interaction complexity in reusable component-based software development](#)
Proceedings of the 1999 symposium on Software reusability
David Rine, Nader Nada, Khaled Jaber

評論與推薦文章

The ACM Portal is published by the Association for Computing Machinery. Copyright ©2003 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads: [Adobe Acrobat](#) [QuickTime](#) [Windows Media Player](#) [RealPlayer](#)

書目資料欄位

- 出處：該篇文章的出處，可連結至該期刊各刊期之目次
- 題名
- 作者：包括作者姓名與其服務機構
- 期刊出版資訊：期刊出版者、卷期、ISSN
- 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
- 全文連結：點選 PDF 文件圖示即可連結全文。必須先安裝 Acrobat Reader
- 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此關鍵字之文章列表
- 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
- 其他推薦文獻：看過本篇文章的使用者同時亦看過的文章。點選刊名可連結至該篇文章

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：

- Discuss
- Review this Article
- Save to Binder
- My Bookshelf