

User Guide

Introduction

Content

Platform

Librarian Resources

ACM

Digital Library

Guide to Computing Literature



Association for Computing Machinery

The Association for Computing Machinery is a non-profit membership organization focused on promoting computing as a science & profession worldwide.

Next

User Guide

Introduction

Content

Platform

Librarian Resources

ACM

Digital Library

Guide to Computing Literature

**96,000
Members**



96,000 members from over 190 countries around the world

Next

User Guide

Introduction

Content

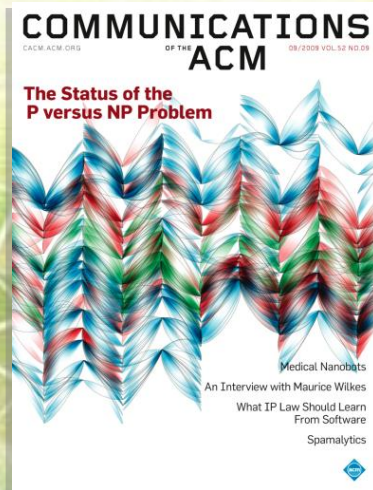
Platform

Librarian Resources

ACM

Digital Library

Guide to Computing Literature



Magazines



Journals



Proceedings

Main activities include: publishing scholarly information, journals, conference proceedings, magazines, newsletters and electronic databases

Next

User Guide

Introduction

Content

Platform

Librarian Resources

ACM

Digital Library

Guide to Computing Literature



Leading conference organizer in the field of computing with over 170 conferences annually

Next

User Guide

Introduction

Content

Platform

Librarian Resources

ACM

Digital Library

Guide to Computing Literature



The ACM Digital Library (DL) is a complete collection of all of ACM's publications starting with Volume 1, Issue 1, including:

Next

User Guide

Introduction

Content

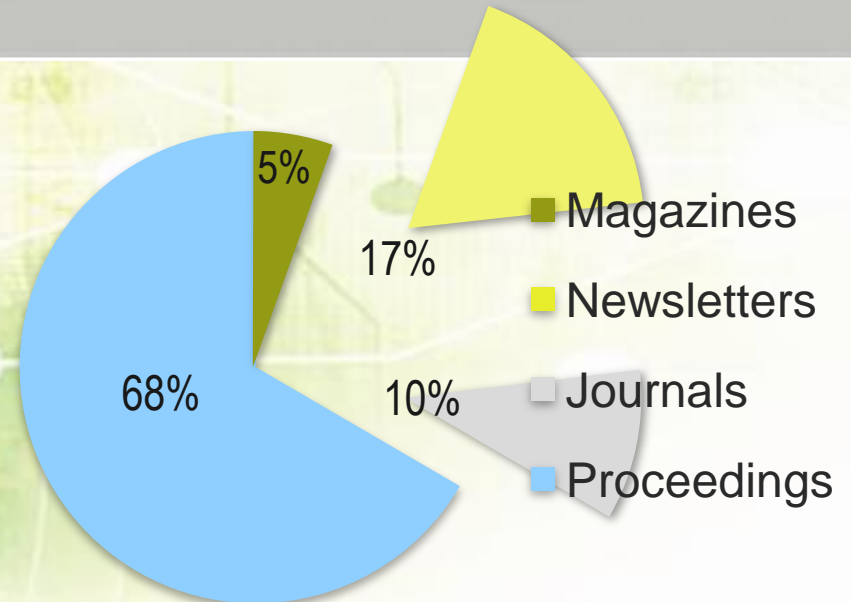
Platform

Librarian Resources

ACM

Digital Library

Guide to Computing Literature



Total # of Assets — 280,364 works *

*current as of Spring 2010

The ACM Digital Library (DL) is a complete collection of all of ACM's publications, including: journals, conference proceedings, magazines, newsletters, and multimedia titles, plus selected titles from other publishers in computing

Next

User Guide

Introduction

Content

Platform

Librarian Resources

ACM

Digital Library

Guide to Computing Literature



The ACM Guide to Computing Literature is the most comprehensive bibliographic database in existence today focused exclusively on the field of computing

Next

User Guide

Introduction

Content

Platform

Librarian Resources

Overview

Magazines

Proceedings

Journals



#4 Ranked Journal by impact factor



#3 Ranked Journal by impact factor



#5 Ranked Journal by Citations

Over 40 ACM Journals

- ACM Computing Surveys
- ACM Journal on Emerging Technologies in Computing Systems
- Journal of Data and Information Quality
- Journal of Experimental Algorithmics
- Journal of the ACM
- Journal on Computing and Cultural Heritage

****And Many More on Hot Topics in Computing**

ACM Journals. ACM publishes the premier collection of peer reviewed journals in the field of computing written and edited by leading international experts in their respective fields. ACM continues to launch new journals each year to serve the needs of the growing scientific community.

Next

User Guide

Introduction

Content

Platform

Librarian Resources

Overview

Magazines

Proceedings

Journals



Special Interest Groups:

- SIGACCESS
- SIGARCH
- SIGCHI
- SIGCOMM
- SIGDA
- SIGPLAN
- SIGSOFT
- SIGGRAPH
- SIGMETRICS
- SIGMOBILE
- SIGWEB

The Digital Library contains hundreds of thousands of articles from dozens of topics within computing published in journals, magazines, conference proceedings, newsletters, technical reports, web sites, multimedia files, and oral history interviews.

Next

User Guide

Introduction

Content

Platform

Librarian Resources

Overview

Magazines

Proceedings

Journals

Magazines



Magazines
between
practicing
people and
technology

- [*Communications of the ACM*](#)
- [*Computers in Entertainment \(CIE\)*](#)
- [*Crossroads \(renamed XRDS 2010\)*](#)
- [*Queue*](#)
- [*Ubiquity*](#)
- [*eLearn*](#)
- [*Interactions*](#)

ACM Magazines. ACM offers an array of print and online scholarly magazines written and edited by many of the most respected and recognizable global experts in the field of computing targeted to a very broad audience of computer literate people and the public interested in computing developments.

Next

[User Guide](#)[Introduction](#)[Content](#)[Platform](#)[Librarian Resources](#)[Overview](#)[Magazines](#)[Proceedings](#)[Journals](#)**Conferences****Workshops****Symposia**

ACM Proceedings. The ACM is the largest organizer of conferences, workshops, and symposia in the field of computing with over 170 events taking place annually. All papers from all ACM conferences are available in the ACM Digital Library.

[Next](#)

User Guide

Introduction

Content

Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages



Simple Search

- Keyword
- Name
- Title
- Phrase

For all full text articles in the DL or expanded to include the entire bibliographic database with pointers to external sources

Searching the DL. The DL offers comprehensive searching tools to help you easily find the content you are seeking. Simply insert a search term, keyword, article title, or name into the basic search field.

Next

User Guide

Introduction

Content

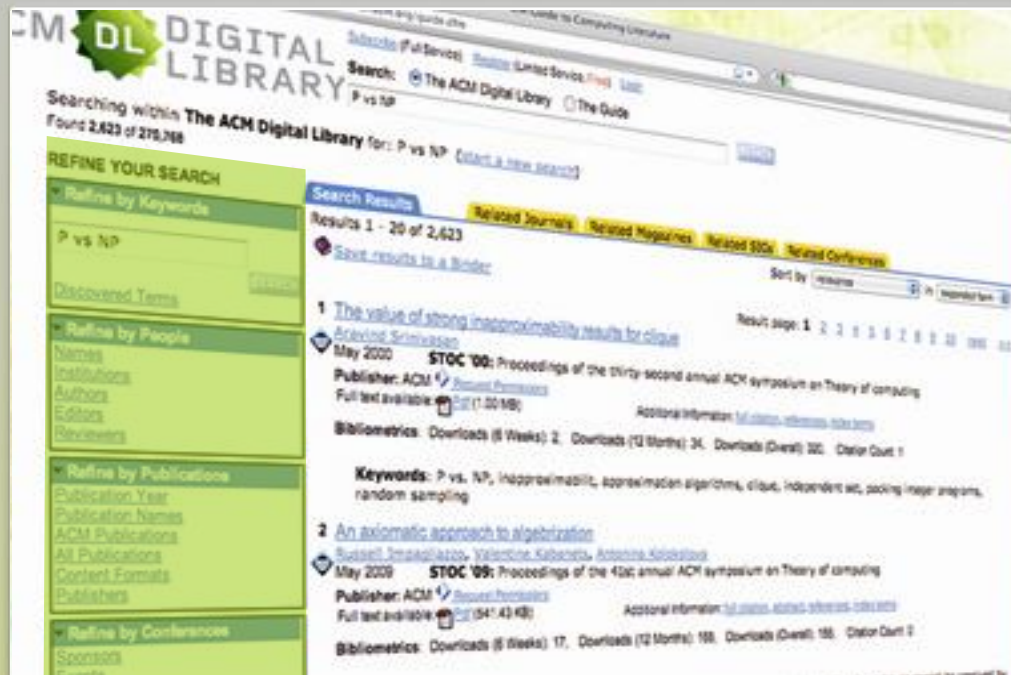
Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages

**Refine your search by:**

- People
- Publication
- Conference

Drill down further using guided navigation...***Exposes detailed relationships among authors, institutions, publications, and special interest groups***

Searching the DL. Search results are presented and further refinable through our faceted search. This allows for further granularity by people, publication and/or conference.

Next

User Guide

Introduction

Content

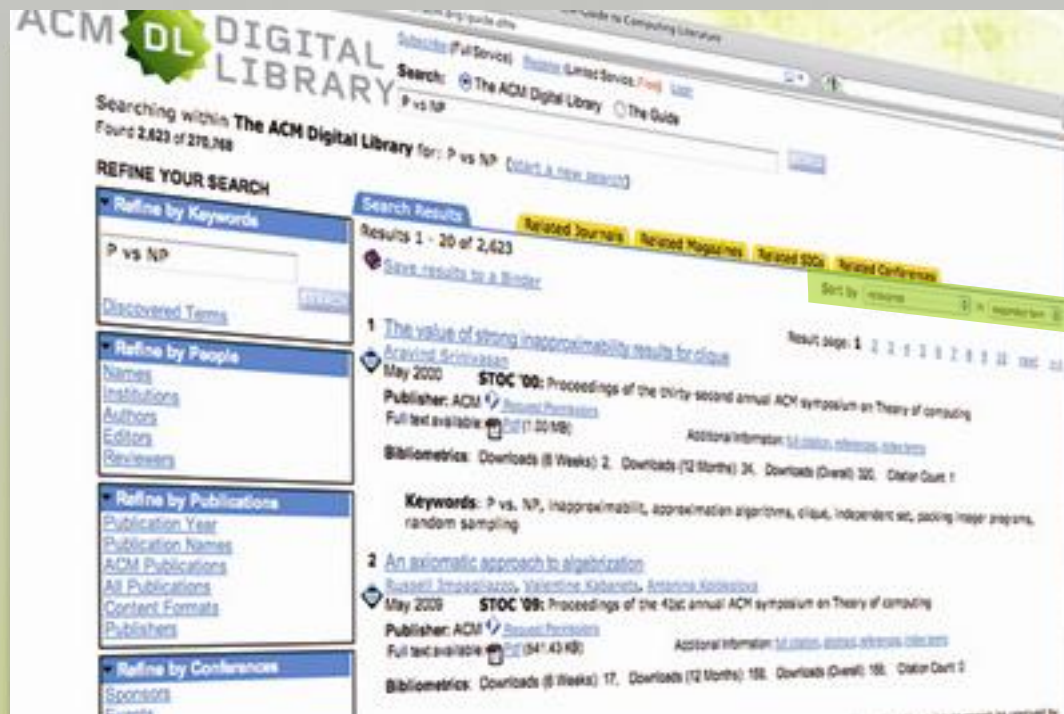
Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages



All familiar sorts by:

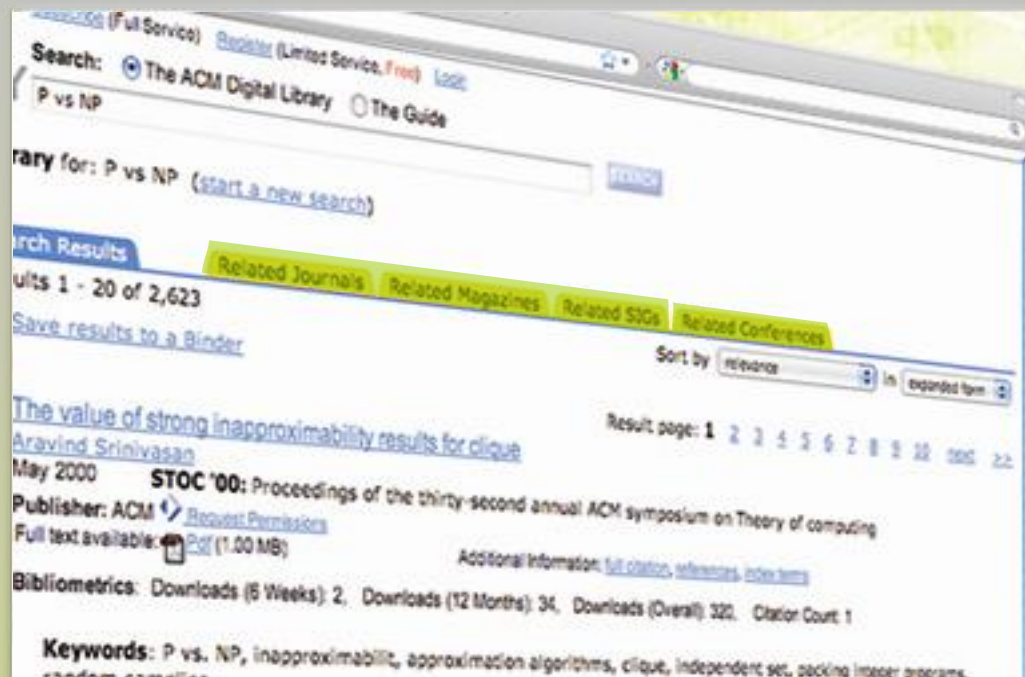
- Relevance
- Date
- Title
- Publisher
- Publication

Plus Special sorts by:

- Citation Count
- Downloads

This feature enables one to see the most prestigious titles from the scholars' perspective and users' perspective.

Next

[User Guide](#)[Introduction](#)[Content](#)[Platform](#)[Librarian Resources](#)[Search](#)[Citation Page](#)[Author Profiles Pages](#)

Find Related Content by:

- Journals
- Magazines
- Special Interest Groups
- Conferences

Finding Related Content. Given your search results of specific works, this related content browse feature reveals the titles of journals or set of conferences devoted to this topic or the related Special Interest Group and their activities.

[Next](#)

[User Guide](#)[Introduction](#)[Content](#)[Platform](#)[Librarian Resources](#)[Search](#)[Citation Page](#)[Author Profiles Pages](#)

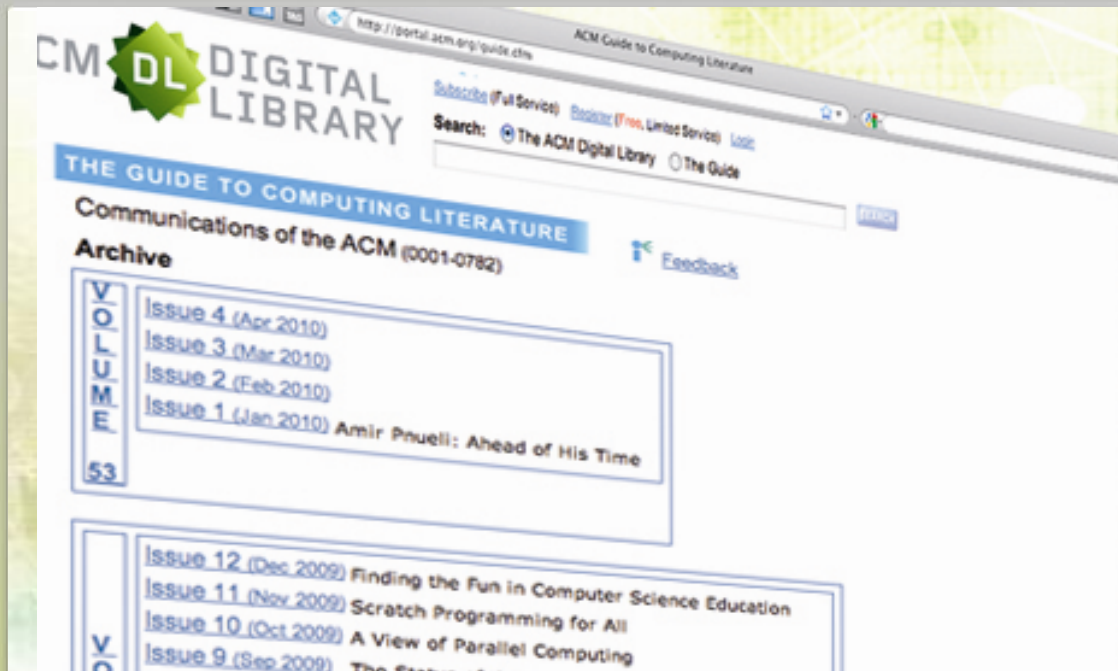
The screenshot shows the 'Advanced Search' page of the ACM Digital Library. At the top, it says 'THE ACM DIGITAL LIBRARY' and 'Advanced Search'. Below this, it indicates 'Search within Results: 2,623 found' and provides a link to 'Start a new search instead'. A text box prompts the user to 'Enter words, phrases or names below to revise your search. Surround phrases or full names with double quotation marks.' There is a 'SEARCH' button. Below the main search area, there are several sections for refining the search: 'Words or Phrases' with a 'Find' dropdown and radio buttons for 'all of this text (and)', 'any of this text (or)', and 'none of this text (not)'; 'Keywords' with a 'Find author's keywords' field and radio buttons for 'all', 'any', and 'none of the keywords'; 'Publication' with a 'Find publisher' field; 'Names' with a 'Find' dropdown and radio buttons for 'all', 'any', and 'none of the names'; 'Affiliations' with a 'Find company or school' field and radio buttons for 'all', 'any', and 'none of the affiliations'; and 'Identification Codes' with a 'Find ISBN/ISSN' field.

Advanced Search by:

- Words or Phrases
- Names
- Keywords
- Affiliations
- Publications
- Genres
- Date Ranges
- Identification Codes
- Taxonomic Categories
- ISBN/ISSN
- DOI

Advanced Search is an alternative approach to the stepwise refinement of guided navigation. Advanced Search (or fielded search) gives you the power to enter Boolean combinations of all indexed bibliographic elements in a single comprehensive search form.

[Next](#)

[User Guide](#)[Introduction](#)[Content](#)[Platform](#)[Librarian Resources](#)[Search](#)[Citation Page](#)[Author Profiles Pages](#)

Contextual Search:

- Within genres
- Within archives
- Within volumes
- Within issues

Contextual Search allows the user to limit the scope of a search to the space defined by a browse window. One can search within a single genre, the entire archive of a single publication or series, or within a single issue or volume.

[Next](#)

User Guide

Introduction

Content

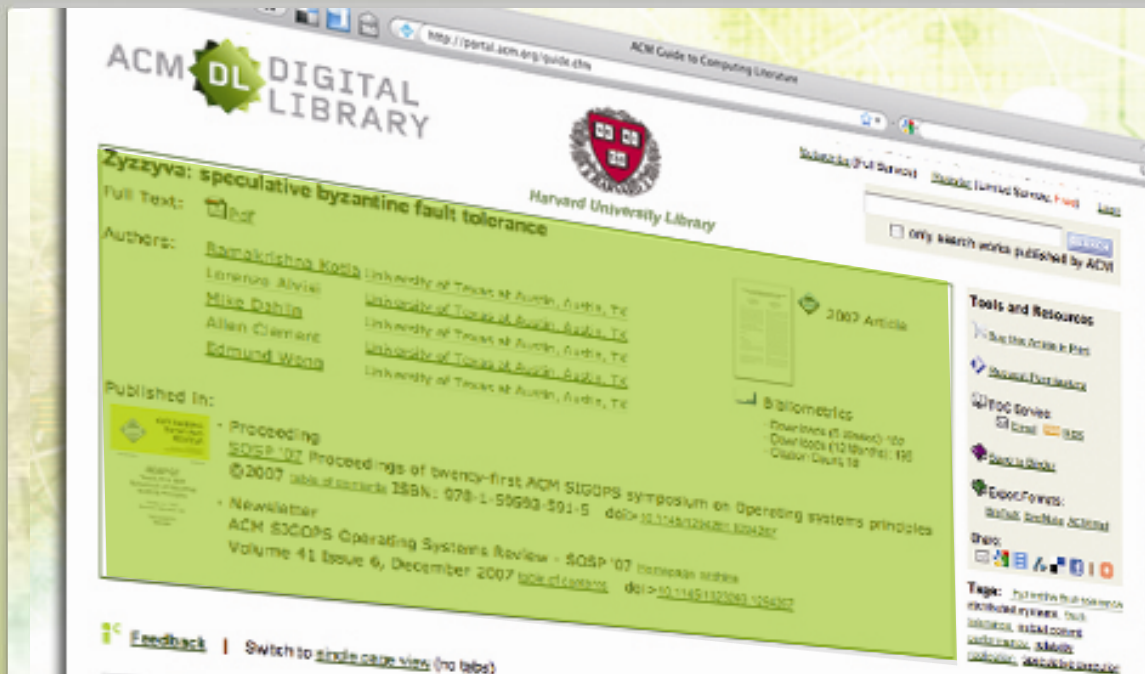
Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages



Citation Pages:

- Redesigned for 2010
- User controlled view using tabs or scrolling
- Detailed bibliometric data at the article level
- Co-branding by institution, name and logo
- Qualified by Type, Audience, & Review Process

Citation Page: All critical bibliographic data are summarized in one main citation record. The details are exposed by clicking on tabs or by choosing to scroll one complete page.

Next

User Guide

Introduction

Content

Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages

2007 Article

Published In:

- Proceeding
- 2007 Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles
- ©2007 ISBN: 078-1-59593-501-5 doi:10.1145/125420.125427
- Newsletter
- ACM SIGOPS Operating Systems Review - SIGOP '07 European edition
- Volume 41 Issue 6, December 2007 doi:10.1145/125420.125427

Tools and Resources

- Request Re-use permissions
- Table of contents alert service by RSS or email
- Save to personal collections (Binder)
- Export to bibliographic manager
- Share by email or favorite social network

Abstract

We present Zyzyva, a protocol that uses speculation to reduce the cost and simplify the design of Byzantine fault tolerant state machine replication. In Zyzyva, replicas respond to a client's request without first running an expensive three-phase commit protocol to reach agreement on the order in which the request must be processed. Instead, they optimistically adopt the order proposed by the primary and respond immediately to the client. Replicas can thus become temporarily inconsistent with one another, but clients detect inconsistencies, help correct replicas converge on a single total ordering of requests, and only rely on responses that are consistent with this total order. This approach allows Zyzyva to reduce replication overheads to near their theoretical minimal.

Tools and Resources:

- Request Re-use permissions
- Table of contents alert service by RSS or email
- Save to personal collections (Binder)
- Export to bibliographic manager
- Share by email or favorite social network

Tools and Resources: ACM provides an expanding set of tools for the user to work with the contents of the Digital Library.

Next

User Guide

Introduction

Content

Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages

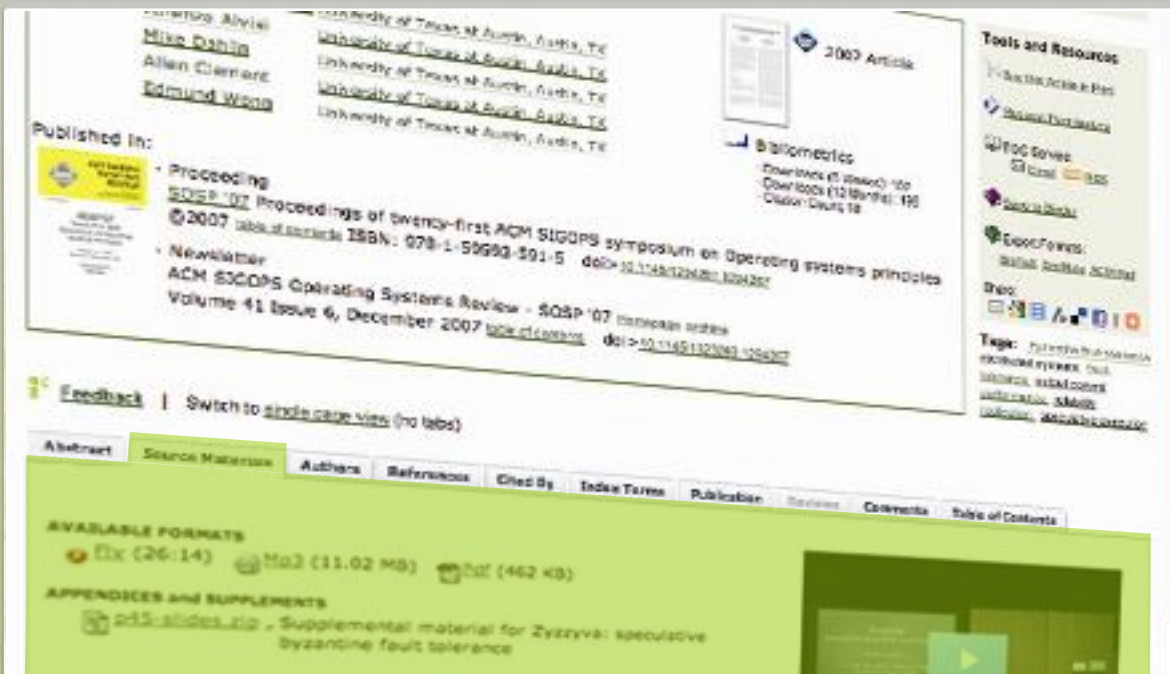
The screenshot displays the ACM article page for 'Zyzyva'. The top section includes the article title '2007 Article', authors 'Milo Dahan, Allan Clement, Edmund Wong', and their affiliation 'University of Texas at Austin, Austin, TX'. It also lists the publication 'Proceeding SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles' and the journal 'ACM SIGOPS Operating Systems Review - SOSP '07'. The abstract text is visible below the navigation tabs.

Abstract:

- Comprehensive overviews
- Available at no charge to all users

Abstract. All ACM article abstracts are available at no charge.

Next

[User Guide](#)[Introduction](#)[Content](#)[Platform](#)[Librarian Resources](#)[Search](#)[Citation Page](#)[Author Profiles Pages](#)

Source Materials:

- Full text
- Audio/video
- Additional details
- Links to TOC

Source materials. Include alternate formats for full text as well as supplemental files and appendices, including audio/video presentations. Details about the publication in which the article appears are provided together with links to the table of contents of this particular issue or volume and to the entire archive.

[Next](#)

User Guide

Introduction

Content

Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages

Published In:

- Proceeding
SIGOPS '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles
©2007 ISBN: 079-1-59593-501-5 doi:10.1145/128488.128488
- Newsletter
ACM SIGOPS Operating Systems Review - SIGOPS '07 homepage article
Volume 41 Issue 6, December 2007 [homepage article](#) doi:10.1145/132100.132100

Feedback | Switch to single page view (no tabs)

Abstract Source Materials Authors References Cited By Index Terms Publication Reviews Comments Table of Contents

Author: Ramesh Babu

No contact information provided yet.

Bibliometrics: publication history

Publication years	2004-2009
Publication count	9
Citation Count	45
Available for download	

Author Bibliometrics:

- Publication history
- All co-authors
- Total downloads of all works in the DL
- Cumulative cited by statistics

Author: Authors are presented with their overall publication history and statistics. Links to the authors ACM DL profile page with additional detail.

Next

User Guide

Introduction

Content

Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages

2007 Article

Biometrics

Download (10 items): 100
Download (10 items): 100
Download (10 items): 100

Published In:

- Proceeding
SOSP '07: Proceedings of the twenty-first ACM SIGOPS symposium on Operating systems principles
©2007 ACM ISBN: 078-1-50693-501-5 doi:10.1145/125488.125488
- Newswatch
ACM SIGOPS Operating Systems Review - SOSP '07 European edition
Volume 41 Issue 6, December 2007 doi:10.1145/125488.125488

Feedback | Switch to single page view (no tabs)

Abstract | Source Materials | Authors | References | Cited By | Index Terms | Publication | Reviews | Comments | Table of Contents

Note: OCR errors may be found in this Reference list extracted from the full text article. ACM has made its best effort to correct them.

1. OpenSSL. <http://www.openssl.org/>.
2. US secret service report on insider attacks. <http://www.fbi.com/fbi/pressroom/insider-attacks>.
3. Michael Abd-El-Malek, Gregory B. Ganger, Wade R. Grier, Nicholas McKeown, 2007. <http://www.fishbase.org/>.

Forward and Reverse Linking:

- Reference list
- Cited by list

References/Cited By: The author's reference list is linked either by DOI or other mechanisms to the bibliographic record and to the full text source where known. Similarly, subsequently published works which referenced this article are listed together with links to the source.

Next

[User Guide](#)[Introduction](#)[Content](#)[Platform](#)[Librarian Resources](#)[Search](#)[Citation Page](#)[Author Profiles Pages](#)

Index Terms:

- The ACM Computer Classification Scheme (CCS)
- 2300 subject areas under 11 major topics
- Highly structured taxonomy

Index Terms. ACM maintains the defacto standard for classification of works in computing. The ACM Classification Scheme (CCS). Primary and secondary subject categories for the article are displayed with links are provided to a listing of all other works in the DL on the same topic.

[Next](#)

User Guide

Introduction

Content

Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages

Publication

- Title Information
- Link to homepage
- Table of Contents
- Link to Archive
- ISSN/ISBN

Publication. Details about the publication in which the article appears are provided together with links to the Table of Contents of this particular issue or volume and to the entire archive.

Next

User Guide

Introduction

Content

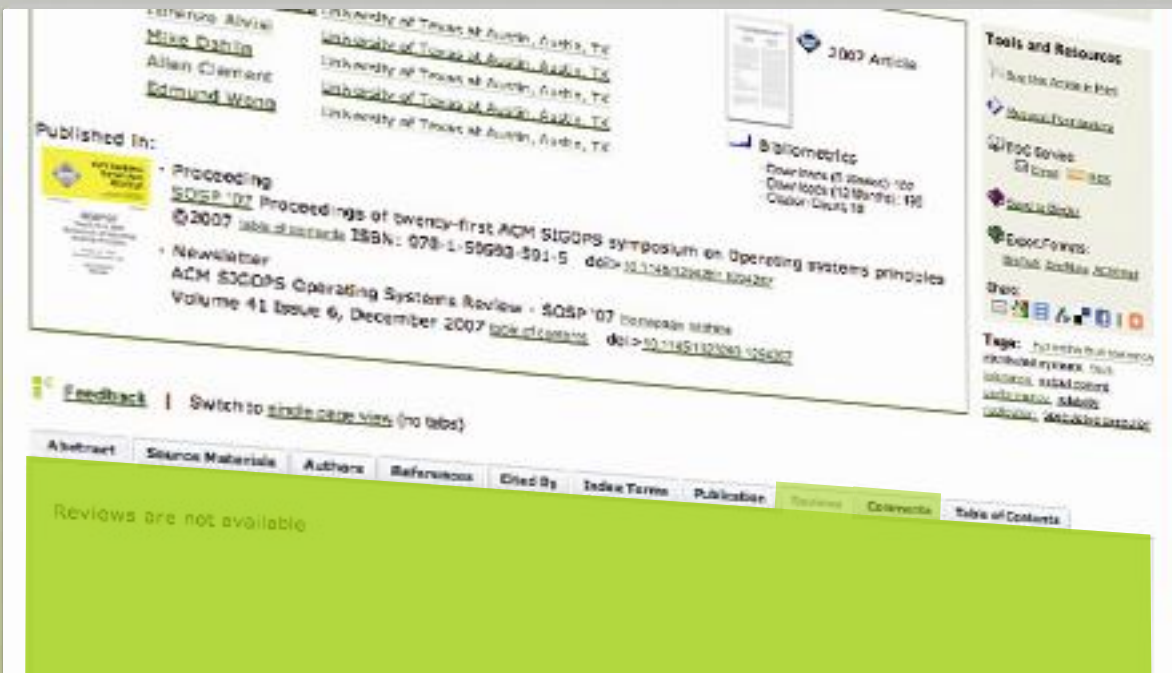
Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages



Reviews:

- Approved subject experts
- Edited
- Formally published

Comments:

- Open
- Unedited
- User contributed

Reviews / Comments. ACM has published a review journal since 1963 called *Computing Reviews*. Selected books and articles are reviewed by ACM approved, subject experts. Users can interact with each other by entering their own unedited remarks on any article. The full Computing Reviews online service is available through a separate subscription from Reviews.com

Next

User Guide

Introduction

Content

Platform

Librarian Resources

Search

Citation Page

Author Profiles Pages

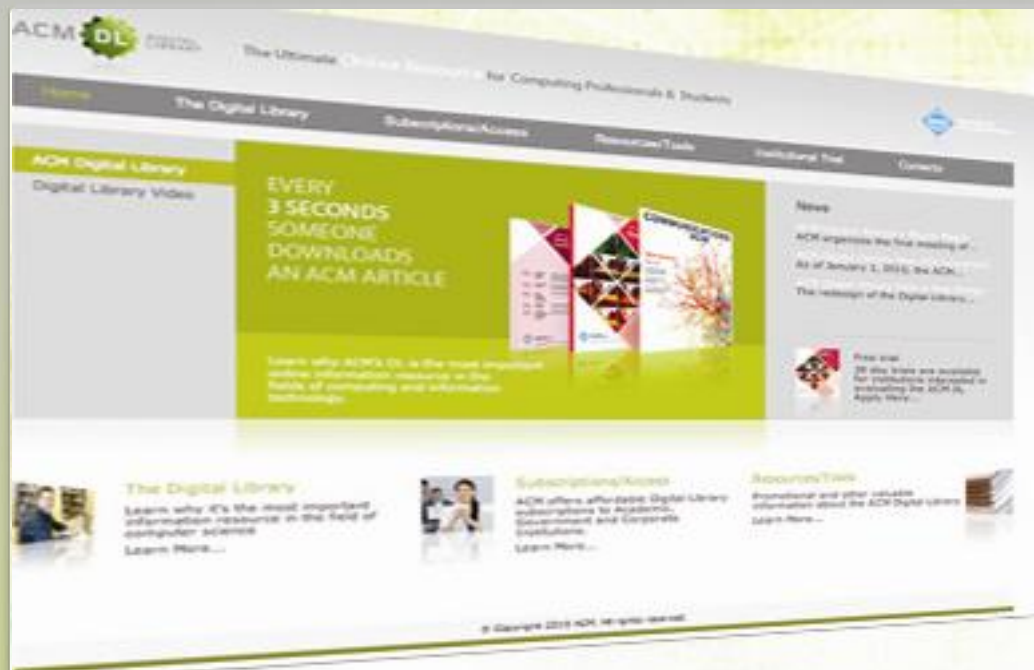
The screenshot shows the ACM Digital Library interface. At the top, the 'ACM DL DIGITAL LIBRARY' logo is visible. Below it, a search bar and navigation links are present. The main content area displays the 'Author Profile' for David Patterson. On the left, there is a portrait photo of David Patterson, his name, and a link to 'View all colleagues of this author'. Below this, a 'ROLE' section lists 'Author only', 'Editor only', 'Reviewer only', 'Editorial board', and 'Adviser'. The 'AUTHOR'S COLLEAGUES' section is also visible. The main profile area includes an 'Affiliation History' section with a list of institutions: 'University of California, Berkeley', 'Stanford University', 'University of Illinois at Chicago', 'University of California, Berkeley', and 'University of California, Berkeley'. To the right of the affiliation history, there is a 'Bibliometric Data' table with columns for 'Publications', 'Citations', 'H-index', and 'i10-index'. The table shows values for David Patterson: 1,000 publications, 10,000 citations, an h-index of 100, and an i10-index of 100. Below the table, there is a 'Publications' section with a list of publications, including 'Collecting large-scale system problems by mining console logs' and 'October 2009 SOSP'.

Author Profile:

- Bibliometric data
- Affiliation history
- Editable profile
- Complete list of publications
- Bookmark/share features
- List of professional collaborators
- Subject areas of expertise

Author Profile: Provides detailed bibliometric data for over 1.0 million authors in the computing field, including ACM and non ACM authors. Includes: Updated affiliation histories, detailed list of authors collaborative colleagues, editable profiles and the author's complete publication record including links to those publication on/off ACM DL.

Next

[User Guide](#)[Introduction](#)[Content](#)[Platform](#)[Librarian Resources](#)[Librarian Website](#)[Usage Reports](#)[Admin](#)

ACM Librarian Resources Website:

- Resources for academic, government and corporate libraries.
- ACM's newest marketing materials
- Digital Library policy and pricing information
- ACM Bulletin — ACM's newsletter for librarians

The ACM Librarian Website is a resource for librarians wanting learn more about and stay up to date with latest from the ACM Digital Library. Visit us at <http://librarians.acm.org>

Next

[User Guide](#)[Introduction](#)[Content](#)[Platform](#)[Librarian Resources](#)[Librarian Website](#)[Usage Reports](#)[Admin](#)

Author Profile Pages:

- COUNTER III Compliant usage stats
- SUSHI enabled
- All reports are regularly updated on a monthly basis

The ACM provides usage statistics for institutional and consortium subscribers as provided by Scholarly IQ. ACM provide detailed statistics for all content downloaded from the DL, including journals, magazines, conference proceedings, newsletters and other article types.

[Next](#)

User Guide

Introduction

Content

Platform

Librarian Resources

Librarian Website

Usage Reports

Admin



Administrators have the ability to:

- Update IP addresses
- Download statistics
- View payment information
- Generate renewal quotes
- Generate invoices
- Update contact information

Administrators Can Access a Variety of Information about their account at
<http://librarians.acm.org>

Next