

The ACM Digital Library: A User Guide

The ACM is the world's leading publisher of scientific and technical information and conference organizer in the field of Computing

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Part I: The Researcher Guide

The ACM Digital Library (DL)

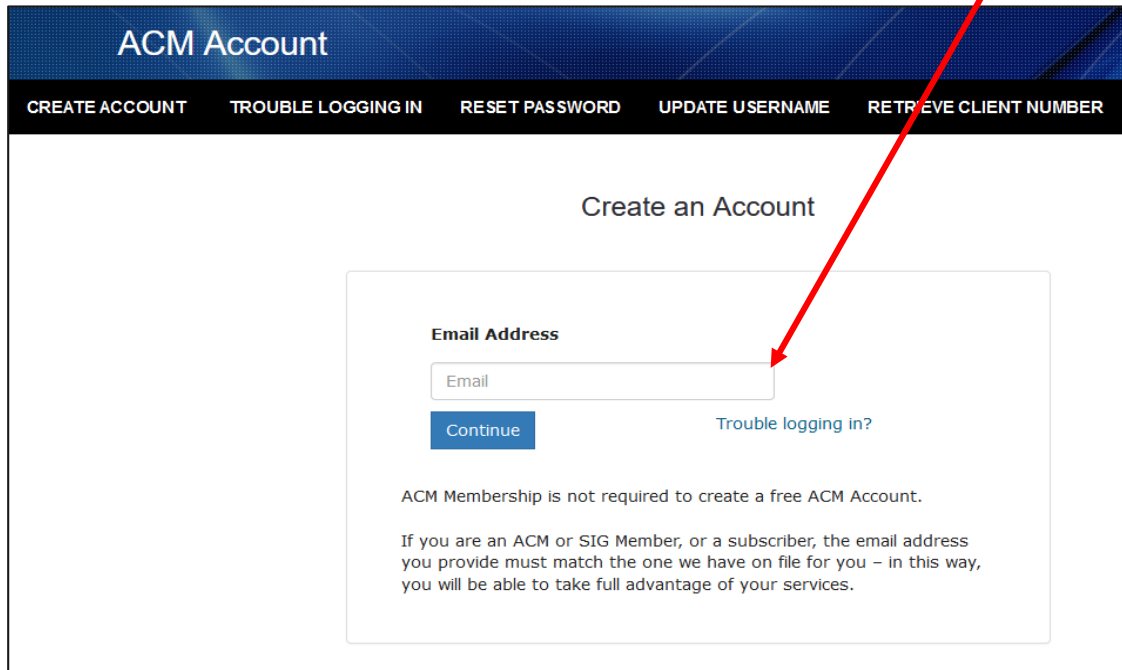
- The DL is computer science's most comprehensive and highly-used online research platform.
- Contains all of ACM's journals, conference proceedings, newsletters and books.
- ACM Books series (<https://dl.acm.org/acmbooks>) is hosted on DL platform but is not included with institutional subscription but instead by one-time purchase. The series is also available via individual ACM membership.
- As of March 2020, the DL contains 786,000 full-text articles, and 3.2 million tracked publication records.
- The ACM DL web account allows the user to access full-text remotely, save searches, set up alerts, and save full-text articles into Binders.
- To create a web account, click on the "Register" button in the upper right-hand corner of the DL screen (see next slide).
- Visit at <https://dl.acm.org>

The ACM DL Web Account

The screenshot shows the ACM Digital Library homepage. At the top, there is a navigation bar with the ACM DL logo, the Association for Computing Machinery logo, and links for "ACM - Association for Computing Mac...", "Browse", "About", "Sign in", and a "Register" button which is circled in red. Below the navigation bar, there is a horizontal menu with links for "Journals", "Magazines", "Proceedings", "Books", "SIGs", "Conferences", and "People". In the center, there is a search bar with the text "Search" and a magnifying glass icon, with a link to "Advanced Search" below it. A large, semi-transparent gray box in the center contains the text: "Welcome to the ACM Digital Library", "A community engaged with a repository of resources to support computing research and practice", and "Please explore and use the [Feedback] button on any page to help us shape the new site." At the bottom left, there is a "Feedback" button with a speech bubble icon. At the bottom right, there is a "Youtube Channel" button with a play button icon. A large, faint image of a computer keyboard serves as the background for the main content area.

Setting Up the ACM DL Web Account

- To create the account, enter your email in the box shown here:

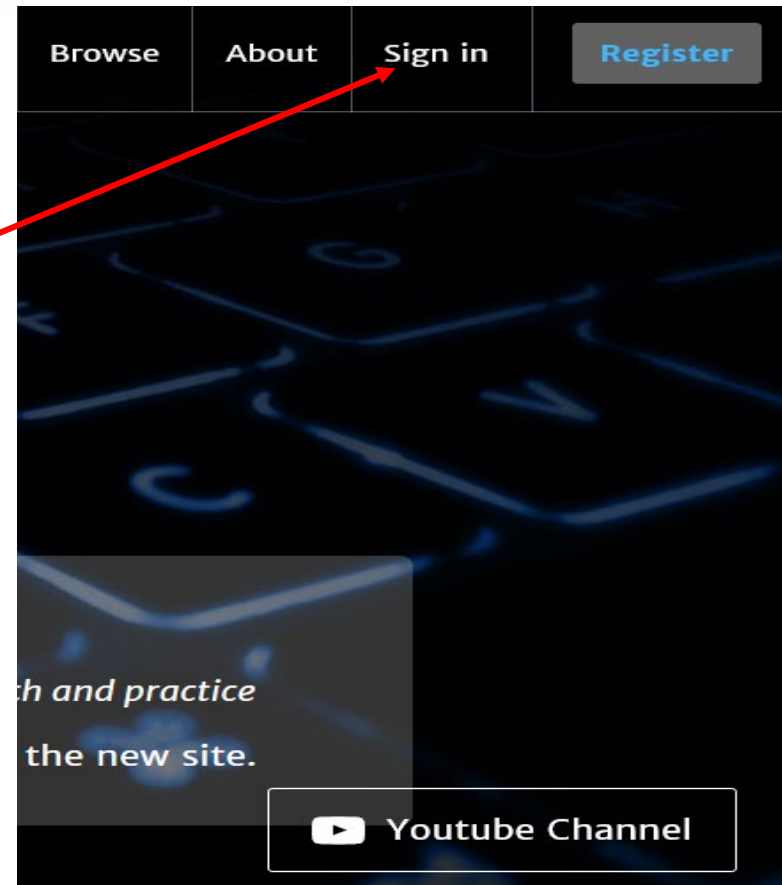


The screenshot shows the 'ACM Account' page with a navigation bar containing links: CREATE ACCOUNT, TROUBLE LOGGING IN, RESET PASSWORD, UPDATE USERNAME, and RETRIEVE CLIENT NUMBER. The main heading is 'Create an Account'. Below this is a form with the label 'Email Address' and an input field labeled 'Email'. A red arrow points to this input field. Below the input field is a blue 'Continue' button and a link 'Trouble logging in?'. At the bottom of the form, there is a note: 'ACM Membership is not required to create a free ACM Account. If you are an ACM or SIG Member, or a subscriber, the email address you provide must match the one we have on file for you – in this way, you will be able to take full advantage of your services.'

- Then confirm your account once you have received the email from ACM

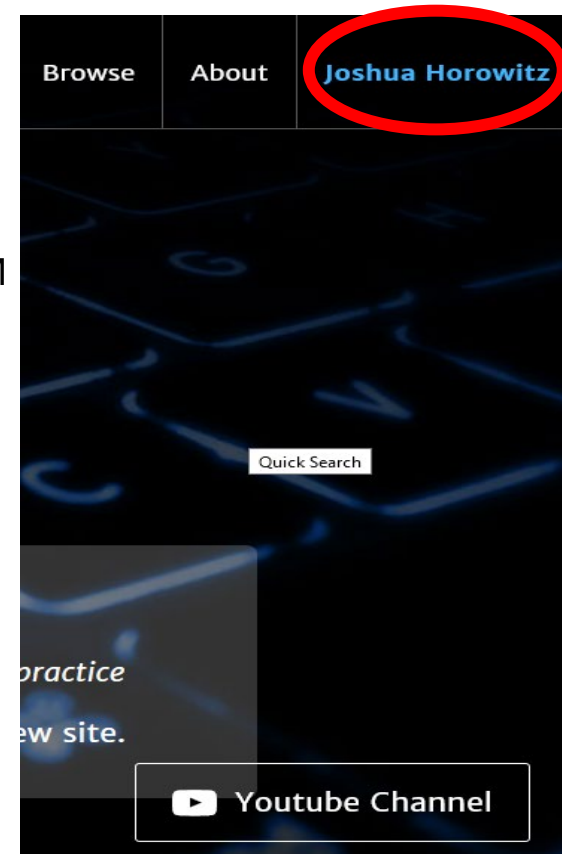
Logging In to the ACM DL Web Account

- Sign in using the link in the upper right-hand corner of the screen



ACM DL Web Account

- Once you are signed in, you will see your account name in the upper right-hand corner:
- **Uses of the ACM web account:**
- Remote Access: sign in with your web account to the ACM DL from inside a full-text authenticated environment, and for 6 months from that time you will be able to access the full-text articles from outside that authenticated environment by logging in with your web account.
- Create Binders to save articles and notes, and share them with friends
- Save Search queries and set up Content Alerts.



The ACM DL Home Page (<https://dl.acm.org>)

- The ACM DL home page provides an overview of ACM's many activities, awards and publications.
- Award Winners:

■ Recent Award Winners



A. D. McGettrick

ACM Presidential Award 2018

In recognition of his unwavering commitment to computer science education -- particularly in terms of its quality, breadth, and access -- for generations of students worldwide.

The ACM DL Home Page (con't)

ACM Publications and Social Media:

ACM Books



Computing and the National Science Foundation, 1950--2016: Building a Foundation for Modern Computing

Peter A. Freeman,

W. Richards Adrion, + 1

2019

This organizational history relates the role of the National Science Foundation (NSF) in the development of modern computing. Drawing upon new and existing oral histories, extensive use of N...

[Read More](#) →



Concurrency: the Works of Leslie Lamport

Dahlia Malkhi

2019

This book is a celebration of Leslie Lamport's work on concurrency, interwoven in four-and-a-half decades of an evolving industry: from the introduction of the first personal computer to an...



Providing Sound Foundations for Cryptography: On the Work of Shafi Goldwasser and Silvio Micali

Oded Goldreich

2019

Cryptography is concerned with the construction of schemes that withstand any abuse. A cryptographic scheme is constructed so as to maintain a desired functionality, even under malicious attempts aim...

[Read More](#) →



The Essentials of Modern Software Engineering: Free the Practices from the Method Prisons!

Ivar Jacobson,

Harold "Bud" Lawson, + 3

2019

The first course in software engineering is the most critical. Education must start from an understanding of the heart of software

Tweets by @ACMDL



ACM Digital Library

@ACMDL

Read "Buffer Placement and Sizing for High-Performance Dataflow Circuits," a Best Paper from ACM FPGA '20: bit.ly/2QyHRdN



Figure 1: A hardware circuit, but more sophisticated than the circuit in Figure 1(a). The circuit in Figure 1(a) is a simple circuit with a single input and a single output. The circuit in Figure 1(b) is a more complex circuit with multiple inputs and outputs. The circuit in Figure 1(c) is a circuit with a feedback loop.



21h



ACM Digital Library

@ACMDL

"Testing static analyses for precision and soundness," by Jubi Taneja, Zhengyang Liu, and John Regehr, a Best Paper from ACM FOSDEM '20: bit.ly/3ddlpk6

Algorithm 1 maximally precise known bits

```
1: procedure COMPUTEKNOWNBITS(F)
2:   for i ← 0 ... Width(F) - 1 do
3:     If askSolver(F - FclearBit(i)) then
4:       Result[i] ← 0
5:     else if askSolver(F + FsetBit(i)) then
6:       Result[i] ← 1
7:     else
8:       Result[i] ← Unknown
9:   return Result
```

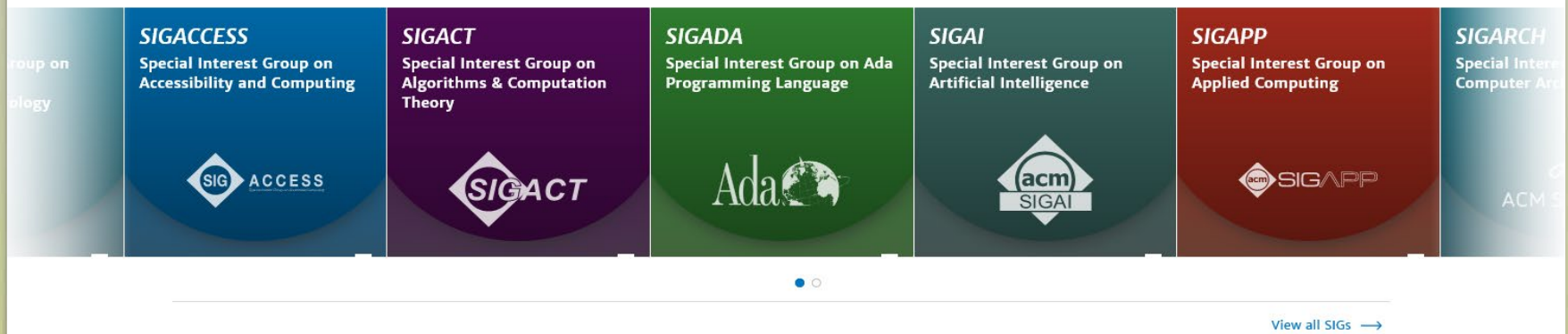


Mar 21, 2020

ACM DL Home Page (con't)

- ACM's Special Interest Groups (SIGs): 37 different sub-organizations under the ACM umbrella, each with a different focus area in computing:

■ ACM Special Interest Groups (SIGs)



ACM DL Home Page (con't)

- ACM Journals browsable menu...

ACM Journals



ACM DL Home Page (con't)

- ACM Magazines...



ACM DL Home Page (con't)

- Clicking on a magazine cover will bring you to the magazine's citation summary page.
- Bibliometrics such as total number of citations and downloads are continually tracked.
- Clicking on the issue's cover will allow you to view specific bibliometrics for that issue, and to download a PDF, e-reader or other digital version of the issue.
- The DL contains bibliometric profiles for all publications, authors, articles and more.

Communications of the ACM

Search within CACM

Home > Magazines > Communications of the ACM

Communications of the ACM



ACM's flagship magazine, *Communications of the ACM*, is the premier chronicle of computing technologies, covering the latest discoveries, innovations, and research that inspire and influence the field. Each month, *Communications* brings readers in-depth stories of emerging areas of computer science, new trends in IT, and practical research applications. Industry leaders choose *Communications* to debate technology implications, public policies, ... [\(More\)](#)

Editor-in-Chief:  [Andrew A. Chien](#)

Get Alerts for this Magazine



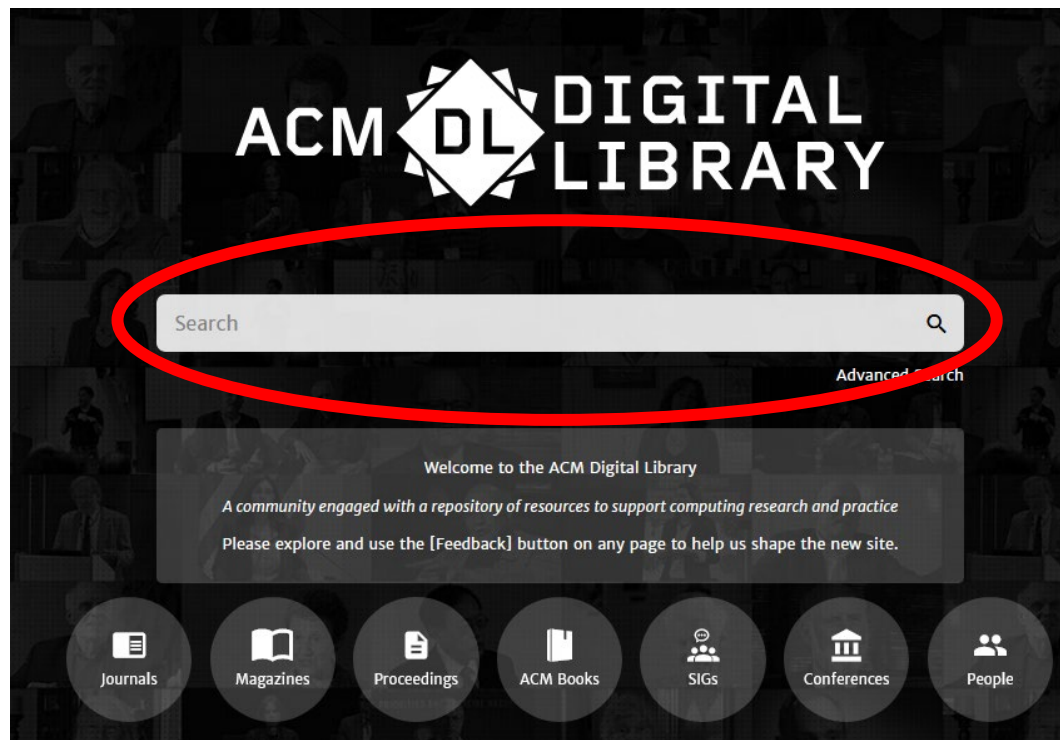





Bibliometrics	Publication Years	Publication counts	Citation count	Available for Download	Downloads (6 weeks)	Downloads (12 months)	Downloads (cumulative)	Average Downloads per Article	Average Citation per Article
	1958 – 2020	13,334	579,562	13,257	133,284	2,047,064	33,652,593	2,538.477	43.465

ACM DL: Basic Search

- The Basic Search box is found at the top of the DL home page:



ACM Basic Search (con't)

- The Basic Search provides instant suggestions as you type:



- The Basic Search allows you to search for People, Publications, and Content
- Basic Search allows Boolean operators AND, OR and NOT (use capital letters)

ACM Basic Search (con't)

- The Basic Search box is always available on the DL screen:



ceedings > Cloud-I '12 > Analytic lessons: in the cloud, about the cloud

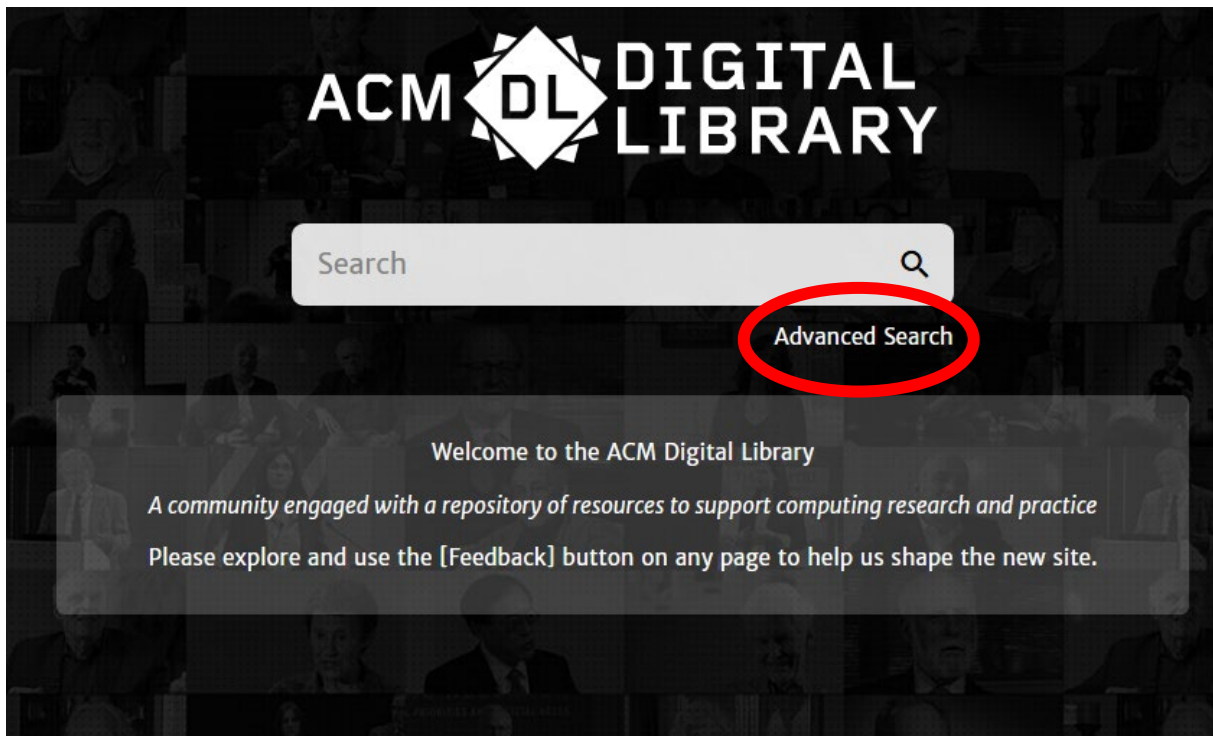
RESEARCH-ARTICLE

Analytic lessons: in the cloud, about the cloud



ACM DL Advanced Search

- The Advanced Search is right below the Basic Search box:



ACM DL Advanced Search (con't)

- Advanced Search is based on a filtering system that allows the user to refine their search parameters.
- User may select between searching Full-Text only or also including *The Guide to Computing Literature* bibliometric index.
- User may search for words contained in article citation or other associated metadata.
- User may then add additional content filters such as for terms related to article supplemental materials, general computing subject area, publisher and more.
- Finally, user may define the publication date range for their search results.
- Boolean operators AND, OR, and NOT can be applied.

Advanced Search

Search

Search anything within the ACM Digital Library or go to your [Saved Searches](#)

Search items from:

The ACM Full-Text collection

Search Within

Anywhere

Enter Search term

Filters

Published in

Match All

Enter Search term

Publication Date

☒ All dates

☐ Last

Please Select

☐ Custom range

From: Select Month Select Year

To: Select Month Select Year

ACM DL Advanced Search (con't)

- User can select among these search fields from drop-down menu

- User can add multiple “filters” to select more parameters.

The screenshot displays the 'Search Within' section of the ACM DL Advanced Search interface. On the left, a drop-down menu is open, showing a list of search fields: 'Anywhere', 'Title', 'Author', 'Abstract', 'Full text', 'Author Affiliation', 'Author Keyword', 'Conference Location', 'Conference Sponsor', 'Name', 'ISBN/ISSN', and 'DOI'. A red arrow points from the first bullet point to the drop-down menu. To the right of the menu are three search input fields, each with a 'Enter Search term' placeholder and a minus sign icon. A red arrow points from the second bullet point to the plus sign icon at the bottom right of the search fields, indicating the option to add more filters.

Saving Searches

The screenshot shows the ACM Search Results interface. At the top, a blue banner displays 'Search Results' and the search term 'cloud'. Below the banner, a sidebar on the left lists filters: People (Names, Institutions, Authors, Editors, Advisors, Reviewers) and Publications. The main content area shows '43,855 Results for: All: cloud' with buttons for 'Edit Search' and 'Save Search'. A red arrow points to the 'Save Search' button. Below the results count, it says 'Searched The ACM Full-Text Collection (583,292 records) | Expand your search to The'. There are tabs for 'RESULTS', 'VIDEOS', and 'PEOPLE'. Under 'RESULTS', there is a 'Select All' checkbox and a list of results. The first result is a 'RESEARCH-ARTICLE' titled 'Cloudy: a modular cloud storage system' by Donald Kossmann, Tim Kraska, and Simon Lo. The article is from the 'Proceedings of the VLDB Endowment, Volume 3, Issue 1, 2010' with the DOI 10.14778/1920841.1921031.

- The ACM web account allows the user to save their created searches.

- You must be signed in with your web account to enable this feature.

Saving Searches (con't)

My Profile My Binders Institutions Account				
Saved Searches				
Saved Search Name	Frequency	Saved on	Last run on	
Human-Computer Interaction	Never	Mar 25, 2020	Mar 25, 2020	Run 
Machine Learning	Never	Mar 25, 2020	Mar 25, 2020	Run 
All: cloud computing	Never	Jan 7, 2020	Jan 7, 2020	Run 

- Saved Searches can be found and re-generated in your web account Profile.
- Click on your name in the upper right-hand corner of the screen to go to your Profile account.

ACM DL Search Results Screen

- Refine Search Results Options:

- by People

- by Publication Info

- by Conferences
- and more

The screenshot displays the ACM DL search interface. On the left, a sidebar contains 'Refine Search Results Options' categorized into 'People' (Names, Institutions, Authors, Editors, Reviewers), 'Publications' (Journal/Magazine Names, Proceedings/Book Names, All Publications, Content Type, Media Formats, Paper Award, Publisher), and 'Conferences' (Sponsors, Conference Event, Proceedings Series). The main area shows '86,185 Results for: All: hci' with buttons for 'Edit Search' and 'Save Search'. Below this are tabs for 'RESULTS', 'VIDEOS', 'SOFTWARE', and 'PEOPLE'. The results list includes a 'TECHNICAL-NOTE' titled 'HCI and sports' by Stina Nylander, Jakob Lindgren, Florian Mueller, and Joe Marshall, and an 'ARTICLE' titled 'Real HCI: what it takes to do HCI engineering for disasters, driving, disruption, and distributed work' by Stuart K. Card, Robin Murphy, John D. Lee, Judy Olson, and William Newman. Red arrows point from the sidebar categories to the corresponding sections in the search results.

- Search results citations and article links

Article Citation Page

The screenshot shows the article page for "Real HCI: what it takes to do HCI engineering for disasters, driving, disruption, and distributed work". Red arrows point to the following elements:

- Article Authors & Links to Profiles (points to the authors list)
- Click for Author Affiliations & Links to Profiles (points to the "Authors Info & Affiliations" link)
- Article Citation (points to the publication information)
- Links to Full-Text (points to the "eReader" and "PDF" buttons)
- Quick Bibliometrics (points to the citation count "354")
- Publication Navigator (points to the "Previous" and "Next" links)
- Recommended Relevant Articles (points to the "Recommended" section)

Also includes Index Terms, Article Subject Taxonomy and Comments

Author Profile Page

The screenshot shows the ACM author profile for Moshe Y. Vardi. The page features a header with the author's name and a search bar. Below the header, there is a profile section with a photo, name, and a list of institutional affiliations. A row of ACM award logos is displayed below the affiliations. At the bottom, there are five summary boxes: 'Most frequent co-Author' (Orna Kupferman), 'Most cited colleague' (Jeffrey D. Ullman), 'Last year's Top subject' (Computing industry), 'Top keyword' (temporal logic), and 'Most frequent Affiliation' (Rice University, 186 Papers). Red arrows point from text labels on the right to specific elements on the page: 'Search Within Author's Work' points to the search bar; 'Institutional Affiliations' points to the list of universities; 'ACM Awards' points to the row of award logos; 'Links to Author Email and Website' points to the email and website icons; and 'Key Subject Areas and Collaborators' points to the 'Top keyword' box.

Moshe Y. Vardi

Search for Moshe Y. Vardi's work

Home > Moshe Y. Vardi

Moshe Y. Vardi

Rice University • IBM Almaden Research Center • Stanford University • Microsoft Research • Association for Computing Machinery
• Hebrew University of Jerusalem • University of Arizona • University of Liege

ACM AWARD
ACM AWARD
ACM AWARD
ACM FELLOW

✉ 🌐

Most frequent co-Author
Orna Kupferman
Hebrew University of Jerusalem

Most cited colleague
Jeffrey D. Ullman
Stanford University

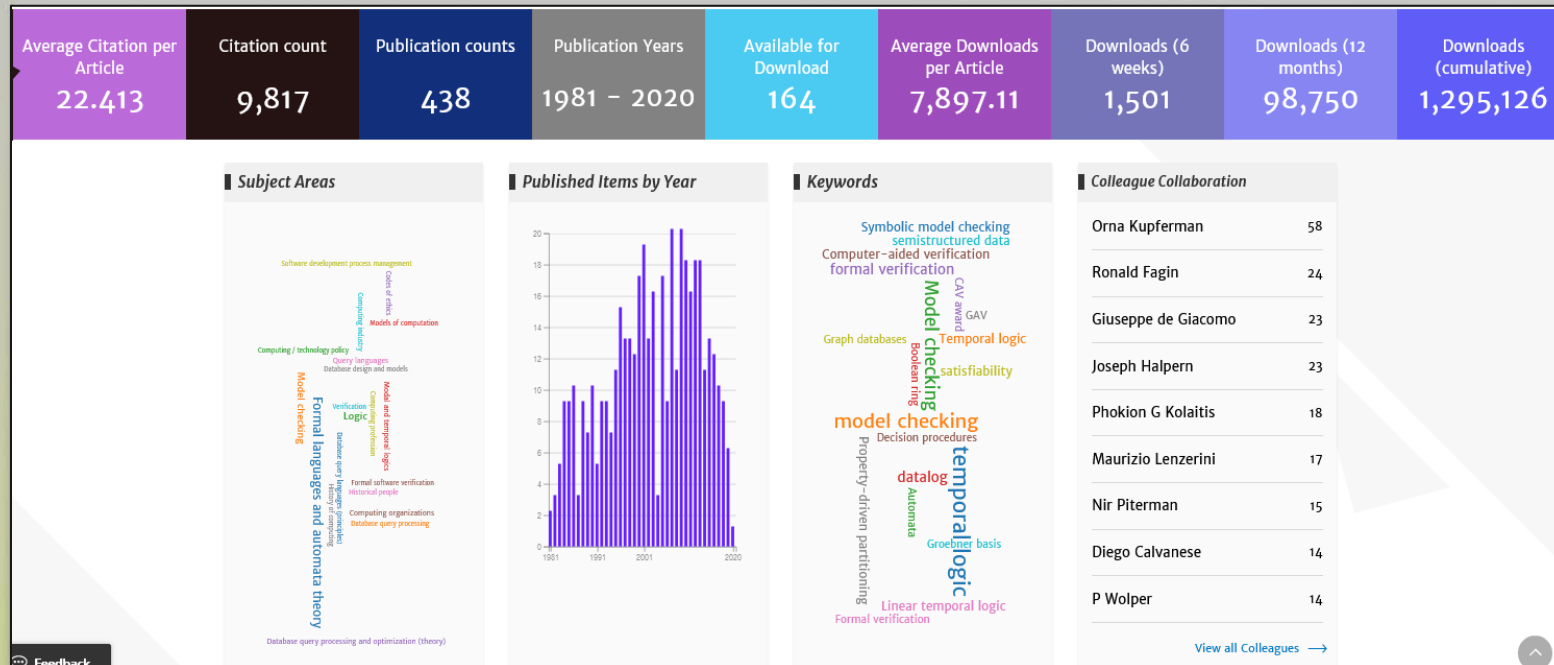
Last year's Top subject
Computing industry

Top keyword
temporal logic

Most frequent Affiliation
Rice University
186 Papers

- Search Within Author's Work
- Institutional Affiliations
- ACM Awards
- Links to Author Email and Website
- Key Subject Areas and Collaborators

Author Profile Page (con't)



Also Included:

-Key Bibliometrics, Detailed Subject Areas & Collaborators, Latest Publications, and Most Cited and Most Downloaded Articles

Institutional Profile Page

The screenshot shows the Rice University profile page. At the top is a blue header with the university name and a search bar. Below the header is a navigation bar with 'Home > Rice University'. The main content area features a university logo, name, and location. Below this are five panels: 'Award Winners' (highlighting Sarita V. Adve), 'Most cited Author' (highlighting Peter Druschel), 'Last year's Top subject' (highlighting Performance), 'Last year's Top keyword' (highlighting Aorta), and 'Most Collaborations' (highlighting Carnegie Mellon University). Red arrows point from the following list items to these specific elements on the page:

- Search Within Institution's Research (points to the search bar)
- Link to website (points to the university logo)
- Award Winners (points to the Sarita V. Adve panel)
- Most Cited Author (points to the Peter Druschel panel)
- Key Subject Areas in Research (points to the Performance panel)
- Top Collaborating Institution (points to the Carnegie Mellon University panel)

Also includes:

Key Bibliometrics, Institutional Collaborators, Article Output Over Time, Core Research Subject Areas, Most Cited and Most Downloaded Articles at the Institutional Level.

The ACM Web Account: Personalization Features

- By accessing your web account you can:
- Save searches
- Create and Add articles to “Binders”
- Share “Binders” to colleagues and students
- Create alerts for new content, citations on articles, when magazines and journals have a new issue, conferences and proceedings.
- View usage reports on your institution or consortium members (see below)

Personalization Features: Creating and Adding to Binders

To create binders, login to your web account, click on your name, and then My Binders. And then “Create a Binder”

The screenshot shows the ACM Digital Library interface. At the top, there's a navigation bar with links for Journals, Magazines, Proceedings, Books, SIGs, Conferences, and People. A search bar is also present. Below this, a green bar contains links for My Profile, My Binders (which is active), and Institutions Account. The main content area is titled 'My Binders' and features a blue button labeled '+ Create a New Binder' circled in red. Below the button is a table with columns for Name, Description, Last Modified, and Tools. The first row shows a binder named 'My Reading List' with the description 'My most recently downloaded articles.', a last modified date of 'Mar 4, 2020', and a user icon.

Name	Description	Last Modified	Tools
My Reading List	My most recently downloaded articles.	Mar 4, 2020 Me	Quote, User, Download

Personalization Features: Creating and Adding to Binders

Then you can add a name and a description and Create

Create a New Binder

Give your binder a name and a description (*optional*).

Binder's Name

| 256

Description

| 2000

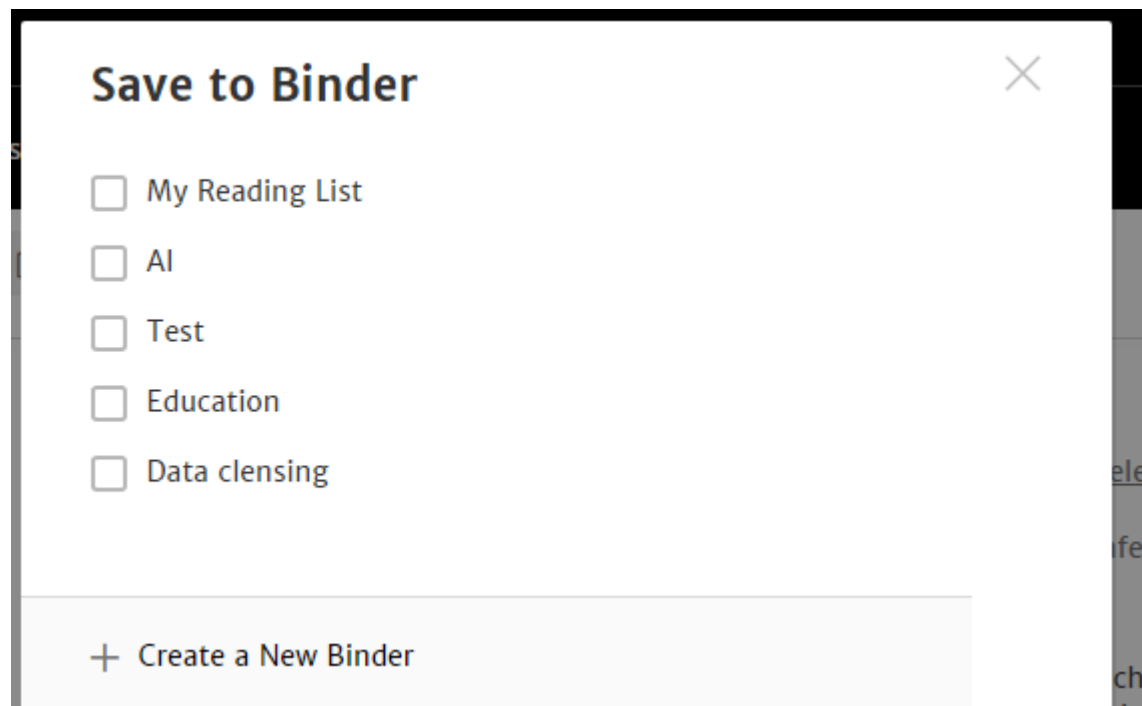
Personalization Features: Creating and Adding to Binders

To add articles to a binder, run a search or browse content in the DL, select at least one article and save to Binder

The screenshot shows the ACM DL search results interface. At the top, there are three buttons: 'Export Citation' (disabled), 'Save to Binder' (active and highlighted with a red circle), and 'per page:'. Below the buttons, there is a list of search results. The first result is a 'RESEARCH-ARTICLE' titled 'Extracting medical entities from social media'. It is selected, indicated by a blue checkmark in a box (also highlighted with a red circle). The authors listed are Sanja Scepanovic, Enrique Martin-Lopez, Daniele Quercia, and Khan Bayl. The conference is CHIL '20: Proceedings of the ACM Conference on Health, Inference, and Learning • A 181. The URL is https://doi.org/10.1145/3368555.3384467. The abstract starts with 'Accurately extracting medical entities from social media is challenging because people with different expressions for the same concept, and they also make spelling mistake focused on specific diseases (e.g., ...'. The second result is also a 'RESEARCH-ARTICLE' titled 'BMM-Net: automatic segmentation of edema in optical coherence tomography boundary detection and multi-scale network', which is also selected with a blue checkmark.

Personalization Features: Creating and Adding to Binders

Select a binder from your existing list, or create a new binder:



The screenshot shows a modal dialog box titled "Save to Binder" with a close button (X) in the top right corner. Inside the dialog, there is a list of five binders, each with an unchecked checkbox: "My Reading List", "AI", "Test", "Education", and "Data clensing". At the bottom of the dialog, there is a button labeled "+ Create a New Binder".

Save to Binder

- ☐ My Reading List
- ☐ AI
- ☐ Test
- ☐ Education
- ☐ Data clensing

+ Create a New Binder

Personalization Features: Sharing Binders

You can share Binders with colleagues, students, groups and authors; anyone with a DL subscription can read the content you share. Go to my Binders and click Share Binder

The screenshot shows the ACM Digital Library interface. The top navigation bar includes links for Journals, Magazines, Proceedings, Books, SIGs, Conferences, and People. Below this is a search bar and a navigation menu with 'My Profile', 'My Binders', and 'Institutions Account'. The 'My Binders' section is active, displaying a list of binders. The 'AI' binder is selected, and its 'Tools' menu is open, showing options like 'Quote', 'Share', and 'Share Binder'. The 'Share Binder' option is circled in red.

Name	Description	Last Modified	Tools
My Reading List	My most recently downloaded articles.	Mar 4, 2020 Me	Quote, Share, Share Binder
AI	No description	Feb 13, 2020 Me	Quote, Share, Share Binder
Test	No description	Jan 9, 2020 Me	Quote, Share, Share Binder
	No description	Dec 12, 2019 Me	Quote, Share, Share Binder

Personalization Features: Sharing Binders

Enter email addresses of those people you want to share with and click share.

Sharing Options



AI

No description

To share this binder, add a user's email address:

Shared binder user listing

Shared with 0 users.

Email	Invite Date	Replied Date	Status
-------	-------------	--------------	--------

Personalization Features: Creating Alerts

For most content in the DL you can create an alert- whenever you see this button you can do so:

Home > Magazines > Communications of the ACM

Communications of the ACM



ACM's flagship magazine, *Communications of the ACM*, is the premier chronicler of computing technologies, covering the latest discoveries, innovations, and research that inspire and influence the field. Each month, *Communications* brings readers in-depth stories of emerging areas of computer science, new trends in IT, and practical research applications. Industry leaders choose *Communications* to debate technology implications, public policies, ... [\(More\)](#)

Editor-in-Chief:  [Andrew A. Chien](#)

 Get Alerts for this Magazine



Personalization Features: Creating Alerts

Edit your alerts and delete them by going into My Profile. Please note you can also create alerts on Citations and Conference Proceedings.

My Account

[Personal Details](#)[Alerts](#)[Saved Searches](#)[Institutional Affiliations](#)

Alerts

[New content alerts](#)[Citation alerts](#)[Conference Proceedings](#)

To receive alerts when new content is published in the journals or book series listed below, check the box next to each publication. TOC alerts are sent immediately after a new issue publishes. TOC alerts are sent immediately after a new issue publishes.