

HFT Stuttgart Library

Tutorial for database research ACM Digital Library

Database description

ACM Digital Library allows you to research within the electronic publications of the Association for Computing Machinery (ACM): Periodicals, proceedings, newsletters, reviews, special interest groups etc.; in most cases, users are able to access and download full texts as PDF files.

→ *Reviews are available for only a few of the recorded articles. They are not available within the database research license of this library and have to be purchased seperately.*

General pointers

Truncation and wildcards

The wildcard character for RSWB PLUS is the asterisk (*).

It can substitute a variable number (including zero) of characters.

Examples:	manag*	finds "management", "managing" etc.
	*able	finds "manageable", "programmable" etc.
	m*age	finds "manage", "message" etc.

Operators

ACM Digital Library does not support operators entered into the main search field. However, you can combine or exclude various terms using features of the advanced search form.

Phrase Search

To find documents containing several words in a certain order, use **quotation marks**, e.g. "control technique".

→ *You can **not** combine truncations and phrase search.*

Features of ACM Digital Library

ACM Web Account

ACM Digital Library lets users set up a personal account that offers additional functions like saving results in a virtual binder.

This feature, however, is not free. When you click on a payable function, you will - after logging in - be asked for credit card information.

➔ *Viewing and downloading full texts within the library's license is free for all members of the university and can be done without needing to set up an ACM Web Account.*

Search form

The home page of the database serves as a portal. The top part containing a search box is relevant for research.

To get precise results, use the advanced search form. To get there from the home page, click the link **beneath the search box**. If you have already started a search, you can find the link at the **bottom of the left frame**.

The screenshot shows the 'Advanced Search' interface of the ACM Digital Library. At the top, it features the library's logo, the text 'HeBIS Hochschule fuer Technik Stuttgart', and links for 'SIGN IN' and 'SIGN UP'. Below the header, there is a search instruction: 'Enter words, phrases or names below. Surround phrases or full names with double quotation marks.' The main search area is divided into several sections, each with a 'SEARCH' button. The 'Words or Phrases' section includes a dropdown menu for 'Find [any field] with' and three radio button options: 'all of this text (and)', 'any of this text (or)', and 'none of this text (not)'. The 'Names' section has a 'Find [any field] with names' dropdown and radio buttons for 'all', 'any', and 'none of the names'. The 'Keywords' section has a 'Find author's keywords' field and radio buttons for 'all', 'any', and 'none of the keywords'. The 'Affiliations' section has a 'Find company or school' field and radio buttons for 'all', 'any', and 'none of the affiliations'. The 'Publication' section includes 'Find publication' and 'Find publisher' fields with radio buttons for 'all', 'any', and 'none of the names', and 'Published since' and 'Published before' dropdown menus for years. It also has checkboxes for 'In publication types' such as Journal, Proceeding, Transaction, Magazine, and Newsletter. The 'Conference' section has 'Find sponsor names' and 'Find location' fields with radio buttons for 'all', 'any', and 'none of the names/locations', and a 'Find year (yyyy)' field with radio buttons for 'all', 'any', and 'none of the years'. The 'Identification codes' section has 'Find ISBN/MSSN' and 'Find DOI' fields. The 'Computing Classification System (CCS)' section has 'Find node' and 'Find subject/houn' fields, with a checkbox for 'Look at primary category only'. The 'Required components' section has checkboxes for 'Full Text', 'Abstract', and 'Review'. A 'SEARCH' button is located at the bottom right of the form.

➔ *If you have already submitted a query, it will be shown in a textbox. Filling out the search form will then perform a search within the results of this query. To abandon previous search criteria, click the link "Start a new search instead" to the left of the textbox.*

You may enter words (with or without truncating and separated by spaces) or phrases defined by quotation marks into the various search fields. Beneath the fields you can choose to search for documents including **all** or at least one (**any**) of the entered terms or exclude documents containing defined words by choosing "**none**".

- **Words or Phrases:** You can choose to search for your entered terms in the **title** or **abstract** of a document or within **reviews** about the text. If you leave the menu at "**any field**", the terms will be searched in all three of those data fields.

- **Names:** You can choose to search for authors, editors, advisors or reviewers. If you leave the menu at "any field", your query will be searched in all of these data fields. To search for **specific names** you can use a phrase search, e.g. "Jeff Smith". Separate multiple entries with space, e.g. "Jeff Smith" "Greg Meyers".
- **Keywords:** Search within keywords the author has allocated to his or her text.
- **Affiliations:** Relates to institutions involved in publishing a document.
- **Publication:** Search for a publication (periodical or book) containing the document you are looking for. You may enter queries concerning the title of this publication (Find publication), its publisher and the volume / year the article was published (Find year). The latter field requires whole numbers, e.g. 1999. Using the checkboxes underneath, you can choose a specific type of publication.
- **Conference:** Search for conference texts by entering queries concerning sponsors of an event, its location and date. The last field requires whole numbers, e.g. 1999.
- **Identification codes:** Use a publication's ISBN or ISSN to search for one specific item. Digital publications are recorded with a unique DOI.
- **Computing Classification System (CCS):** ACM publications are categorized within a set of subjects using a particular classification. Define one or more subjects to find documents relevant for a specific topic. This can be done using the numbering (node) or a subject/noun. (See links at the end of this tutorial)
- **Required components:** Use to specifically find documents containing a full text, abstract or review.

Result list

Structure

Title	Author(s)	Link to full text	Publication containing the text	Start segment of the abstract
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ACM DL DIGITAL LIBRARY

HeBIS Hochschule fuer Technik Stuttgart

Searching for: (construction and site*) (start a new search)
Found 26,534 of 1,586,558

REFINE YOUR SEARCH

Search Results | Related Journals | Related Magazines | Related SIGs | Related Conferences

Results: 20 of 26,534

Sort by: relevance | expanded form

Result page: 1 2 3 4 5 6 7 8 9 10 next >>

1 **A pervasive computing system for the operating room of the future**
Sheetal Agarwal, Anupam Joshi, Tim Finin, Yelena Yesha, Tim Ganous
March 2007 **Mobile Networks and Applications**, Volume 12 Issue 2-3
Publisher: Kluwer Academic Publishers
Full text available: [pdf](#) (523.38 KB)
Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 176, Downloads (Overall): 763, Citation Count: 5

We describe a prototype context aware perioperative information system to capture and interpret data in an operating room of the future. The captured data is used to construct the context of the surgical procedure and detect medically significant events. ...

Keywords: electronic medical encounter record, medical informatics, operating room, pervasive computing system

2 **Compensating for Timing Jitter in Computing Systems with General-Purpose Operating Systems**
Abhishek Dubey, Gabor Karsai, Sherif Abdelwahed
March 2009 **ISORC '09: Proceedings of the 2009 IEEE International Symposium on Object/Component/Service-Oriented Real-Time Distributed Computing**
Publisher: IEEE Computer Society
Full text available: [Publisher Site](#)
Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: 0

Fault-tolerant frameworks for large scale computing clusters require sensor programs, which are executed periodically to facilitate performance and fault management. By construction, these clusters use general purpose

ADVANCED SEARCH
[Advanced Search](#)

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Found 26,534 of 1,586,558

Clicking on the title of a result, as well as the "Additional Information" links, lead to the **details** of that result. You can also access the full text directly by clicking the PDF- or publisher's site link.

The list features **yellow tabs** that list journals, magazines, special interest groups (SIGs) and conferences that contain or are related to the text.

Beneath these tabs, to the far right, you can **sort the list** using various criteria or **view the list in condensed form**, showing only title, author(s) and the respective publication.

Refinements

In the left frame you can filter your result list according to various criteria.

The link "Discovered Terms" beneath the search box opens a list of keywords related to the subjects of found articles. Clicking these terms opens a new result list. You can also refine your search by people, publications and conferences.

Repeat this procedure as many times as you wish to achieve a short and specific result list. To undo one or all of these refinements, click the respective link above your result list.

→ *You can also refine by clicking the link at the end of the right frame to navigate back to the search form.*

Author profile pages

Authors' names are usually links. Clicking one of them opens a separate page listing all publications by this person recorded in the ACM Digital Library. In the left frame, this list can be refined by the person's **role** in the publication process. You can also browse the **author's colleagues**, listing people credited alongside the author in other articles, the **subject areas** the author has written about and the **keywords** the author has allocated to his or her articles.

Details

The detailed view for a result features all bibliographic data of an article.

If available, you can download the **full text** to your hard drive by clicking on the PDF icon. If there is no such link, check the box to the right for a link to the publisher's site, usually leading to a website providing the full text.

The details start with a box providing basic data of an article like title, author(s), publication including volume and document numbers, as well as bibliometrics: statistic data about the article like download rates and citations.

Beneath this box, additional information is organized in tabs (however, you may switch to a single page view). Categories not applicable to the currently viewed result are greyed out. The categories are:

- **Abstract:** A brief summary of the texts content.
- **Authors:** Additional information on the respective author(s) containing, where applicable, pictures and contact information as well as statistics of their published articles.
- **References:** A (partly) linked list of articles used and referred to by the author in his or her own text.
- **Cited by:** A list of documents that use this specific article as a reference.
- **Index terms:** Shows this article's position(s) within the database's classification. The categories are linked to enable browsing for similar articles.
- **Publication:** Additional information on the publication the article was published in. Provides cross-references to relevant websites and various statistic data.
- **Reviews:** Texts published by peers about this article. Where applicable, an abstract of the respective review is provided, but the full text must usually be purchased.
- **Comments:** Comments about the article. Database users may comment, but must provide a valid e-mail address.
- **Table of Contents:** Lists all articles published in the respective volume of a publication alongside this article.

Additional functions, including all popular social media, are provided in the box to the right. You can export the bibliographical data for use with reference management software. The function "Save to Binder", however, is not free and requires an ACM Web Account.

Related Links



[Access database](#) (from computers on the HFT campus or via VPN)



[Glossary](#) of specific terms