

ACM Digital Library

The ACM Digital Library is a research discovery platform from the Association for Computing Machinery (ACM) that provides access to over 2.8 million publications from 1908 – Present including journals, conference proceedings, technical magazines, newsletters and books. A wide variety of topics are covered, everything from machine learning and network security to software engineering and human-computer interaction.

It also includes The ACM Guide to Computing Literature – a comprehensive index of research abstracts focused exclusively on the field of computing.

This database is available on and off campus and may be accessed from **Databases** in the **Electronic Library** at www.ljmu.ac.uk/library/e-library

- Go to **Discover**, if prompted, **Sign in** with your **LJMU username@ljmu.ac.uk** and **password**
- Select the **Databases** option
- Type **ACM Digital Library** into the search box and select the **search icon**
- Select **ACM Digital Library** from the results list and then the online link in the **View Online** box

Searching

You can perform a basic search by typing your search term(s) in the global search box and selecting the search icon.



Advanced Search

An Advanced Search option is also available for more complex searches. You can choose where and how to search for your keywords/phrases.

Search Tips

Boolean Operators

Boolean search operators: **AND**, **OR** and, **NOT**, link your keywords together and enable you to search more effectively:

- The term **AND**, will narrow a search to only find records which contain all search terms, for example:
game **AND** design
- The term **OR**, will widen a search to find records containing any of your alternative search terms, but not necessarily all, for example:
WiFi **OR** wireless
- The term **NOT**, excludes part of a topic or specific terms from a search, for example:
animation **NOT** 3D

Advanced Search

Search

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

The screenshot shows the Advanced Search interface. At the top, it says "Search items from:" followed by a dropdown menu set to "The ACM Full-Text collection" and an information icon. Below this is "Search Within" with an information icon. There are four search rows, each with a dropdown menu and a search box. The first row has "Abstract" in the dropdown and "cloud computing" in the search box, with a plus icon. The second row has "Abstract" in the dropdown and "secur*" in the search box, with a minus icon. The third row has "Anywhere" in the dropdown and "personal private confidential" in the search box, with a minus icon. The fourth row has "Anywhere" in the dropdown and "data information" in the search box, with a minus icon.

Please note that when entering search terms in the same box, the **OR** operator is used. For example, **personal private confidential** will be searched as **personal OR private OR confidential**.

Exact word or phrases

You can search for an exact word or phrase of two or more words by surrounding it with quotation marks. For example, if you type “**digital media**” in quotation marks this ensures that the database only retrieves records where these words appear together as a phrase.

Truncation

An asterisk is a truncation symbol that can be used after the first few characters of a word to include all varying endings of that word in a search, for example comput* will find **computer**, **computers**, **computing**, **computerised**, **computation**

Alternative Search Terms

If you are struggling to find information on a given topic – try changing your search terms to include alternative keywords, for example a mobile device could also be referred to as smartphone or tablet

Search Limits

You can limit your searches by **People**, **Publications**, **Conferences** or **Publication Date** using the refinement options on the search results page. This will help you to find the most relevant research quickly and easily, filtering out any results which are not fully focused on your search topic.

Expanding Your Search

You can widen the range of your search to include bibliographic citations from major publishers in computing by selecting on the option to **Expand your search to The ACM Guide to Computing Literature** at the top of the search results page.

Displaying Results

The search results list can be sorted by **Relevance**, **Earliest** or **Latest**, most **Downloaded** or most **Cited**.

The screenshot shows the ACM Search Results interface. At the top, the search query is "cloud computing" AND secur*. The results show 9,947 items. On the left, there are filter sections for Applied Filters (2010-2023), People (Names, Institutions, Authors, Editors, Reviewers), and Publications (Journal/Magazine Names, Proceedings/Book Names, All Publications, Content Type, Media Formats, Paper Award). The main results list includes:

- RESEARCH-ARTICLE** *Cloud Computing and Procurement* (March 2016) by Bernardo Nicoletti. ICC '16: Proceedings of the International Conference on Internet of things and Cloud Computing, 2016, Article No.: 56, pp 1-7. <https://doi.org/10.1145/2896387.2896441>. Abstract: This paper aims to contribute to the understanding of the use of cloud computing in procurement, particularly from a benefit/cost point of view. The qualitative benefits of cloud computing are clear. It seems important to define a model to evaluate from ...
- RESEARCH-ARTICLE** *Cloud Computing Vulnerabilities Analysis* (September 2019) by Alin Zamfiroiu, Ionut Petre, Radu Boncea. CCIOT '19: Proceedings of the 2019 4th International Conference on Cloud Computing and Internet of Things, September 2019, pp 48-53. <https://doi.org/10.1145/3361821.3361830>. Abstract: Nowadays cloud computing technologies are the most widely used tools due to their great flexibility and also to their lower maintenance costs. Many vendors of cloud computing have appeared on the market for each type of cloud. These solutions still pose ...

To move through the result pages, scroll to the bottom of the page and select the arrow or page number.



Selecting the title of a reference will open the full record. The record provides the following details **Abstract**, **References**, **Index Terms**, **Recommendations** and **Comments** (sometimes you may see **Cited By**) along with a range of tools to help you manage your research.

The screenshot shows the full record page for the survey article "From Security to Assurance in the Cloud: A Survey". It includes the following information:



- Authors:** Claudio A. Ardagna, Rasool Asali, Ernesto Damiani, Quang Hieu Vu. [Authors Info & Claims](#)
- Published:** 22 July 2015. [Publication History](#) [Check for updates](#)
- Abstract:** The cloud computing paradigm has become a mainstream solution for the deployment of business processes and applications. In the public cloud vision, infrastructure, platform, and software services are provisioned to tenants (i.e., customers and service providers) on a pay-as-you-go basis. Cloud tenants can use cloud resources at lower prices, and higher performance and flexibility, than traditional on-premises resources, without having to care about infrastructure management. Still, cloud tenants remain concerned with the cloud's level of service and the nonfunctional properties their applications can count on. In the last few years, the research community has been focusing on the nonfunctional aspects of the cloud paradigm, among which cloud security stands out. Several approaches to security have been described and summarized in general surveys on cloud security techniques. The survey in this article focuses on the interface between cloud security and cloud security assurance. First, we provide an overview of the state of the art on cloud security. Then, we introduce the notion of cloud security assurance and analyze its growing impact on cloud

The ACM Digital Library is primarily a full-text resource – select **PDF** link to open the article.

The ACM Guide to Computing Literature only provides access to the abstract of a record. If there is a **DOI link**, select it to go to the publication source and check if full-text is available.

<https://doi.org/10.1145/2767005>

Print, Save

From a PDF document you can use the icons at the top of the screen to **Print** or **Save** a copy of the article.  

Export Citations

You can export citations into Referencing Managing software such as EndNote.

Mark the citations you wish to export by ticking the box next to the title.

Select **Export Citations** and then the appropriate format and download using the blue downward facing arrow.




If you are using EndNote then the format you need to select is **EndNote**.


Alerts

You can set up alerts for publications, citations or conference proceedings. To do this you must first **register for a free personal account** with the ACM Digital Library. In the top right corner select **Register**.

To set up an alert for a journal, select the journal title and then select **Get Alerts for this Journal**.

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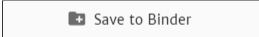
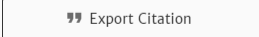
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Tags: [Surveys and overviews](#) [Neural networks](#) [Ambient intelligence](#) + 6

With your personal account you can also save relevant records by selecting the **Save to Binder**

option  and save your searches by selecting the **Save Search** icon 

Additional Resources

The ACM Digital Library also provides access to **Special Interest Groups (SIGs)** which you might find useful. You can browse all Special Interest Groups from the main search page.



Further Help

You can contact your Academic Engagement Librarian for help and guidance via [LJMU HelpMe](#).

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