



# **Information Skills in Information Technologies**

## **March - April – 2020**

### **3. Databases and professional sources of information (I)**

**BRGF Library**  
**[ruth.inigo@upc.edu](mailto:ruth.inigo@upc.edu)**



# Contents

- Bibliographic databases: structure, fields
- Main databases specialised in ICT (Inspec, ACM, IEEEExplore, DBLP)
- **Very important:** Accessing to Databases subscribed by UPC with eBIB button
- Inspec Search



# Databases

## What is a database?

- A database is a **set of specialized information**, organized and structured to be retrieved



# Databases

**Bibliographic databases** organize and structure information in order to facilitate

Palabra Clave, KW=

En cualquier campo

Palabra Clave, KW=

Autor, AU=

Título, TI=

Descriptores, DE=

Actualización, UD=

Afiliación, AF=

Autor Corporativo, C=

Autor, AU=

Clasificación materia

Clasificación, CL=

Cobertura de la publi

Conferencia, CF=

DOI, DO=

Descriptores, DE=

Dirección de Email, E=

Editor, ED=

Editor, PB=

Fecha de publicación, PY=

Booleans: AND, OR, NOT, SAME, NEAR

Field Tags:

TS= Topic	SG= Suborganization
TI= Title	SA= Street Address
AU= Author	CI= City
RID= ResearcherID	PS= Province/State
GP= Group Author	CU= Country
ED= Editor	ZP= Zip/Postal Code
SO= Publication Name	FO= Funding Agency
DO= DOI	FG= Grant Number
PY= Year Published	FT= Funding Text
CF= Conference	SU= Research Area
AD= Address	WC= Web of Science Category
OG= Organization-Enhanced	IS= ISSN/ISBN
OO= Organization	UT= Accession Number

# Databases

Database contents have been reviewed. Usually they include a **selection** of the most important publications on a specific area.

Some of them are **multidisciplinary** (Web of Knowledge).

Other are specialized:

- ACM Digital library, MathSciNet

We can find **different types of documents**: journal articles, standards, conference proceedings...



# Databases

Depending on the database we may find:

- Bibliographic references (+ abstract)



Base de datos	
CSA Engineering Research Database	
Título <b>The application of wireless local area network technology to the control of mobile robots.</b>	
Autor <a href="#">Winfield, A. F. T.</a> ; <a href="#">Holland, O. E.</a>	
Fuente Microprocessors and Microsystems. Vol. 23, no. 10, pp. 597-607. Mar. 2000	
ISSN 0141-9331	
Descriptores ANTE: <input type="checkbox"/> Mobile robots <input type="checkbox"/> Local area networks <input type="checkbox"/> Spread spectrum radio	
Nueva búsqueda utilizando los términos marcados: <input checked="" type="radio"/> Utilice AND para restringir la búsqueda <input type="radio"/> Utilice OR para ampliar la búsqueda	
Resumen This paper describes a communications and control infrastructure for distributed mobile robots, which makes use of wireless local area network (WLAN) technology and Internet Protocols (IPs). The use of commercial off-the-shelf (COTS) hardware and software components protocols, results in a powerful platform for conducting experiments into collective or co-operative robotics. Standard Transmission Control/Internet Protocol (TCP/IP) compatible applications programming interfaces (APIs) allow for rapid and straightforward development applications software. Further, the message bandwidth available from WLAN interfaces (1-2 Mbits/s) facilitates multi-robot experiments requiring high data rates, for instance in robot vision or navigation. The infrastructure described is equally applicable to teleoperated mobile robots. (Original abstract)	
Editor Elsevier Science Ltd., Oxford Fulfillment Centre, P.O. Box 800, Kidlington, Oxford, OX5 1DX, UK, <a href="http://www.elsevier.com">http://www.elsevier.com</a>	
Ilustraciones tbs.	
Idioma English	

- Bibliographic references + full text

Article List	Full Abstracts	Sort by Date   Sort by Relevance
Display Selected Articles E-mail Articles Export Citations		
1. <input type="checkbox"/>	<b>Mobile ad hoc relaying for upward vertical handoff in hybrid WLAN/cellular systems</b> <i>Ad Hoc Networks, Volume 6, Issue 2, April 2008, Pages 307-324</i> Pejman Khadivi, Terence D. Todd, Shadrokh Samavi, Hossein Saidi and Dongmei Zhao SummaryPlus   <b>Full Text + Links</b>   PDF (489 K)   View Related Articles	



# Databases

	
<ul style="list-style-type: none"><li>- Specialized information</li><li>- Non retrievable information from library catalogues</li><li>-Complex search</li></ul>	<ul style="list-style-type: none"><li>- Availability (sometimes only citation, not full text)</li><li>-Lapse of time from publication</li><li>- Longer and more complex searches</li></ul>



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# Databases

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# Databases

## Engineering Village

Platform that integrates COMPENDEX and **INSPEC** databases, among others

Subject: Engineering

Access: through subscription

<https://www-engineeringvillage-com.recursos.biblioteca.upc.edu/search/quick.url>

# Databases



Platform that integrates all the publications from the Association for Computing Machinery (ACM).

Subject: Computer Science

Open access to database, Access to full text through subscription

<https://dl.acm.org/>

# Databases



Platform that integrates all publications from IEEE & IET.

Subjects: Engineering and Technology

Open access to database, Access to full text through subscription

<https://ieeexplore.ieee.org/>

# Databases



Subject: Computation

Content: More than 3 million of records from journals, proceedings, etc.

Open access

<https://dblp.org/>

# Databases

The logo for CiteSeerX, featuring the text "CiteSeerX" in a blue, sans-serif font, with a vertical line to the left of the text.

Subject: Computation

Content: More than 750.000 records

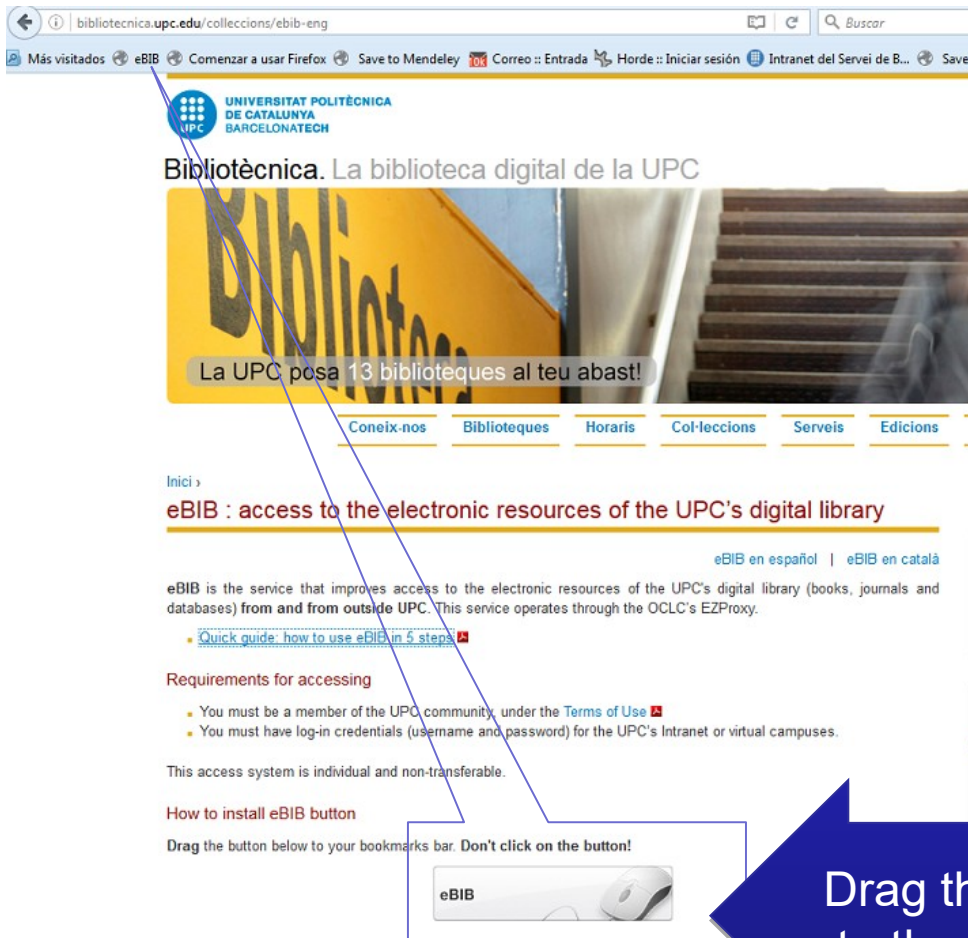
Open access

<http://citeseerx.ist.psu.edu/index>

# Databases

How to find and access databases subscribed by  
UPC?

# Access to databases and other licensed information resources with eBIB



The screenshot shows the eBIB website interface. At the top, there's a navigation bar with the UPC logo and the text 'Bibliotècnica. La biblioteca digital de la UPC'. Below this is a banner image with the text 'La UPC posa 13 biblioteques al teu abast!'. A navigation menu includes links like 'Coneix-nos', 'Biblioteques', 'Horaris', 'Col·leccions', 'Serveis', and 'Edicions'. The main content area is titled 'eBIB : access to the electronic resources of the UPC's digital library'. It includes a 'Quick guide: how to use eBIB in 5 steps' link and a section for 'Requirements for accessing' which states that users must be members of the UPC community and have login credentials. At the bottom, there's a section titled 'How to install eBIB button' with the instruction 'Drag the button below to your bookmarks bar. Don't click on the button!'. A blue arrow points from this instruction to a button labeled 'eBIB' which features a mouse cursor icon.

First of all you have to **install eBIB button** in the favourites/bookmarks toolbar of your navigator

Follow the instructions you will find at

<https://biblioteca.upc.edu/en/ebib#ebib-resources>

Drag the button to the toolbar

# Access to databases and other licensed information resources with eBIB

- Allows to consult the electronic resources subscribed by UPC Libraries (electronic journals, databases, ebooks collections...) from computers that not belong to the UPC net, through authentication as member of UPC.
- **Authentication is made with username and password from UPC Intranet** (the same as Atenea)
- **Press the eBIB button** that you installed in your toolbar to access to any database, electronic book or journal
- Also you can do it if you are accessing the resource through an external search engine (e.g. Google), a shortcut, a bookmark or a website





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# Access to databases and other licensed information resources

Access <https://biblioteca.upc.edu/en/colleccions/bases-dades> to see the list of databases subscribed by UPC libraries



Biblioteca

## Databases

Inspec

Any thematic area

Any type of access

Search

Cleaning up

Introduce the name of the database you want to access

Click to access

### Inspec (Engineering Village) [↗](#)

Base de dades de referències bibliogràfiques de revistes i actes de congressos dins l'àmbit de l'enginyeria. La plataforma d'accés, Engineering Village, permet consultar també simultàneament Compendex i Paperchem.  
**IMPORTANT:** no accessible amb versions anteriors d'Internet Explorer 9.

**Accés:** Restringit a la comunitat UPC mitjançant eBIB

**Àmbit temàtic:** Enginyeria electrònica, Enginyeria de les telecomunicacions, Física, Informàtica, Enginyeria biomèdica  
**Ajuda:**

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# Access to databases and other licensed information resources

- Also you can browse the available resources by subject



Bibliotècnica

## Bases de dades

Quin recurs vols cercar?

Informàtica

Qualsevol tipus d'accés

Cerca

Neteja

Menu of subjects  
(in Catalan)



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# Databases

- Inspec – Engineering Village



You can access directly to Inspec from  
<https://www.engineeringvillage.com/>

**Engineering Village is a platform that hosts several databases.  
One of them is Inspec**

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# INSPEC – Step 1



## To access Engineering Village (Ei Compen

- Use the login form below for Athens, Shibboleth (Instit
- Contact your institution's Engineering Village administ
- You may be able to gain access through your library's

If you are asked to provide your IP address to our [Customer C](#)

## Login

(\*=required fields)

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# INSPEC – Step 2



[Search](#) | [Selected records](#) | [Settings](#) | [Tags & Groups](#)

**Quick Search** | Expert Search | Thesaurus Search | Search History (0)

**DATABASE**

☐ All ☐ Compendex ☒ Inspec ☐ PaperChem

**SEARCH FOR**

AND ▾

in All fields ▾

AND ▾

in All fields ▾

AND ▾

in All fields ▾

Turn Off AutoSuggest ⓘ

+ Add search field

Search

**ADVANCED OPTIONS** ⊕

**Browse Indexes** ⓘ  
▪ Author  
▪ Author affiliation  
▪ Controlled term  
▪ Source title  
▪ Publisher  
▪ IPC Code**Latest Resources** ▾**More Sources** ⓘ ▾**Interactive Equations and Tools** ▾  
Powered by Knovel ⓘ

When consulting Inspec we recommend to deselect the other databases (Compendex and PaperChem) to avoid noise.

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# INSPEC – Step 3

**Quick Search** | Expert Search | Thesaurus Search


**DATABASE** ☐ All ☐ Compendex ☒ Inspec ☐ PaperChem

**SEARCH FOR**


in  All fields   
in  All fields  
in  Subject/Title/Abstract  
in  Abstract  
in  Author  
in  Author affiliation  
in  Title  
in  Classification code  
in  CODEN  
in  Conference information  
in  ISSN  
in  Publisher  
in  Source title  
in  Patent number  
in  Filing date  
in  Patent issue date  
in  Country of application  
in  Material Identity Number  
in  Inspec controlled term  
in  Country of origin  
in  Int. patent classification

**LIMIT TO** 

All document types  
All treatment types  
All disciplines  
All languages  
1969 TO 2013  
1 Updates

**Sort** 

☒ Relevance  
☐ Alphabetical

**Search history** 

**Combine** **Search** **Results** **Database** **Delete**

You have not performed any searches in this session

[View Saved Searches](#)

## Browse Indexes

- Author
- Author affiliation
- Controlled term
- Source title
- Publisher
- IPC Code

## Latest Resources

- 🔍 [Here's what's new](#)
- 🔍 [Training videos](#)
- 🔍 [More videos](#)
- 🔍 [Tell us what you think](#)

## More Search Sources

- Espacenet
- IHS Standards
- LexisNexis News
- Scirus
- USPTO

**Note:** This Search history will contain the latest 50 searches you perform in this session.

**Browse the menu of search fields, Check the limits  
you can set in your query**

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# INSPEC – Step 4

**SORT BY** ⓘ

☒ Relevance ☐ Publication year

☐ Autostemming off

Search Reset

Stemming determines the suffixes of words and allows you to search for the term as entered, the root word, and other words formed with other possible suffixes.

For example, if you enter the term controllers, you get results for:  
Controllers, control, controlling, controlled, controls

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# INSPEC – Indexes

Engineering Village - Quick Search

Fitxer Edita Visualitza Historial

SBDocs - Intranet de la Biblioteca Rec

www.engineeringvillage2.org/

Més visites Catàleg de les Bib

**Engineering**

Search | Selected records

**Quick Search** Expert

**DATABASE** ☐ All ☒ C

**SEARCH FOR**

AND

AND

**LIMIT TO** **1**

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1

**Search history** **1**

Combine Search

You have not performed any sear

Engineering Village - Browse Index - Lookup AUS - Mozilla Firefox

www.engineeringvillage2.org/controller/servlet/Controller?CID=lookupIndexes&database=38&lookup

Search for: A Find Selected index: Author

Click on letter below to browse index:

**A B C D E F G H I J K L M N O P Q R S T U V W X Y Z**

**Aa Ab Ac Ad Ae Af Ag Ah Ai Aj Ak Al Am An Ao Ap Aq Ar As At Au Av Aw Ax Ay Az**

Select terms below to add to search

Connect terms with: ☐ AND ☒ OR [Next page >](#)

- ☐ A (Compendex)
- ☐ A ABDULLIN SH (Compendex)
- ☐ A ADAMS JUDITH (Compendex)
- ☐ A AL-TURAIGI MOHAMMED (Compendex)
- ☐ A ARNDT R.E. (Compendex)
- ☐ A AZIZ A RASHID (Compendex)
- ☐ A BAIG, M. (Inspec)
- ☐ A BECCAN, S. (Inspec)
- ☐ A BECCARA S. (Compendex)
- ☐ A BECCARA, S. (Inspec)
- ☐ A BERG, T. (Inspec)
- ☐ A BIRANG M. (Compendex)
- ☐ A BRASSARD L. (Compendex)
- ☐ A BRASSARD LOTHAR (Compendex)
- ☐ A BRASSARD, L. (Inspec)
- ☐ A BU-LIZI (Compendex)
- ☐ A BURCAT (Compendex)
- ☐ A CAMPO MARCUS (Compendex)
- ☐ A CAMPO, M. (Inspec)
- ☐ A CHEN WANG (Inspec)
- ☐ A CHENG WANG (Inspec)
- ☐ A CHENG WU (Inspec)
- ☐ A CHUNYAN CHEN (Compendex)
- ☐ A COOK (Inspec)
- ☐ A COUCOULAS (Compendex)
- ☐ A CUMMINGS (Inspec)
- ☐ A CURA DI CHIARA LUPI (Inspec)
- ☐ A CURA DI GIORGIO SPARACINO (Inspec)
- ☐ A D F HERRING (Inspec)

triple : New Oxford American Dictionary ...

iee

anet de l... Treballs academics UP...

[Register](#) | [Login](#) | [End Session](#)

[Help](#) | [Ask an expert](#)

**Browse Indexes** **1**

- [Author](#)
- [Author affiliation](#)
- [Controlled term](#)
- [Source title](#)
- [Publisher](#)

**Latest Resources**

- [Here's what's new](#)
- [Training videos](#)
- [More videos](#)
- [Tell us what you think](#)

**More Search Sources** **1**

- [Espacenet](#)
- [IHS Standards](#)
- [LexisNexis News](#)
- [Scirus](#)
- [USPTO](#)





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# INSPEC – Search results

**Quick Search**  
9234 articles found in Inspec for 1969-2013: **((power converter) WN TI)**  
[New Search](#) [Edit](#) [Save Search](#) [Create Alert](#) [RSS feed](#) [Search history](#)

**Refine results**

[Limit to](#) [Exclude](#)

**Add a term**

**Author**

- ☐ Nakazaki, M. (41)
- ☐ Singh, B. (69)
- ☐ Van, Wyk J. D. (51)
- ☐ Blaabjerg, F. (48)

[View more](#)

**Author affiliation**

- ☐ Coll. Of Electr. Eng., Zhejiang Univ., Hangzhou (54)
- ☐ Dept. Of Electr. Comput. Eng., Concordia Univ., Montreal, Que. (31)
- ☐ Dept. Of Electr. Eng., Tsinghua Univ., Beijing (29)
- ☐ Inst. Of Electr. Eng., Chinese Acad. Of Sci., Beijing (28)
- ☐ Dept. Of Electr. Eng., Texas Am Univ., College Station, Tx (27)

[View more](#)

**Controlled vocabulary**

**Classification code**

**Country**

**Document type**

**Language**

**Year**

**IPC code**

**Source title**

**Publisher**

**Run new search with selected facets**

Display: 25 results per page

Go to page: 1 of 370 [Go](#) | [Next >](#)

**Select:** [Selected Records \(0\)](#) [Delete Selected Records](#)

[Email](#) [Print](#) [Download](#) [Save to Folder](#)

Sort by: [Relevance](#)

- ☐ **A novel noninvasive failure-detection system for high-power converters based on SCRs**  
[Guerrero, V.](#) (Univ. Tec. Federico Santa Maria, Valparaiso, Chile); [Pontt, J.](#); [Dixon, J.](#); [Rebolledo, J.](#) **Source:** *IEEE Transactions on Industrial Electronics*, v 60, n 2, p 450-8, Feb. 2013  
**Database:** Inspec  
[Abstract](#) | [Detailed](#) | [+ options](#)
- ☐ **Novel Energy Conversion System Based on a Multimode Single-Leg Power Converter**  
[Taesik Park](#) (Korea Intellectual Property Office, Daejeon, Korea, Republic of); [Taehyung Kim](#) **Source:** *IEEE Transactions on Power Electronics*, v 28, n 1, p 213-20, Jan. 2013  
**Database:** Inspec  
[Abstract](#) | [Detailed](#) | [+ options](#)
- ☐ **Low-Power Interface IC for Triplate Electrostatic Energy Converters**  
[Kempitaya, A.](#) (Dept. of Electr., Comput., & Syst. Eng., Rensselaer Polytech. Inst., Troy, NY, United States); [Hella, M.M.](#) **Source:** *IEEE Transactions on Power Electronics*, v 28, n 2, p 609-14, Feb. 2013  
**Database:** Inspec  
[Abstract](#) | [Detailed](#) | [+ options](#)
- ☐ **Fault Diagnosis Digital Method for Power Transistors in Power Converters of Switched Reluctance Motors**  
[Hao Chen](#) (Sch. of Inf. & Electr. Eng., China Univ. of Min. & Technol., Xuzhou, China); [Shengli Lu](#) **Source:** *IEEE Transactions on Industrial Electronics*, v 60, n 2, p 749-63, Feb. 2013  
**Database:** Inspec  
[Abstract](#) | [Detailed](#) | [+ options](#)
- ☐ **An improved PSFB PWM DC-DC converter for high-power and frequency applications**  
[Bakan, A.F.](#) (Electr. Eng. Dept., Yildiz Tech. Univ., Istanbul, Turkey); [Altintas, N.](#); [Aksoy, I.](#) **Source:** *IEEE Transactions on Power Electronics*, v 28, n 1, p 64-74, Jan. 2013  
**Database:** Inspec  
[Abstract](#) | [Detailed](#) | [+ options](#)
- ☐ **Analysis of a fifth-order resonant converter for high-voltage dc power supplies**  
[Shafiei, N.](#) (Dept. of Electr. Eng., Islamic Azad Univ., Najafabad, Iran); [Pahlevaninezhad, M.](#); [Farzanehfard, H.](#); [Bakhshai, A.](#); [Jain, P.](#) **Source:** *IEEE Transactions on Power Electronics*, v 28, n 1, p 85-100, Jan. 2013  
**Database:** Inspec

Explore the results

Check how the results are sorted


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










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
# INSPEC – Refine your search

**Refine results** 

**Add a term** 




**Author**   

**Author affiliation**   

**Controlled vocabulary**   




- ☐ Power Convertors (3472)
- ☐ Dc-Dc Power Convertors (2000)
- ☐ Pwm Power Convertors (968)
- ☐ Power Factor Correction (954)
- ☐ Switching Convertors (946)




[View more](#)




**Classification code**   




- ☐ Power convertors and power (6811)  
supplies to apparatus
- ☐ Power electronics, supply (2934)  
and supervisory circuits
- ☐ Control of electric power (2475)  
systems
- ☐ Voltage control (693)
- ☐ Current control (532)




[View more](#)




**Country**   




**Document type**   

**Language**   

**Year**   

**IPC code**   

**Source title**   

**Publisher**   

Controlled vocabulary → terms from INSPEC thesaurus

Classification code → specify a subject area

**Thesaurus and classification available at:**

<https://www.theiet.org/media/5196/thesaurus-and-classification-code-changes.pdf>

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# INSPEC – Search history

Search history ⓘ					Hide ▢
Combine Searches: <input type="text" value="e.g., (#1 AND #2) NOT #3"/> <input type="button" value="Search"/>					<b>SORT BY</b> <input checked="" type="radio"/> Relevance <input type="radio"/> Publication year
Combine	Search	Results	Database	Delete	
2. <input type="checkbox"/> <input checked="" type="checkbox"/>	<b>{coll. of electr. eng., zhejiang univ., hangzhou} WN AF</b> <a href="#">Query details</a> <a href="#">Edit</a> <a href="#">Save Search</a> <a href="#">Create Alert</a>	2,072	Inspec		
1. <input type="checkbox"/> <input checked="" type="checkbox"/>	<b>((power converter) WN TI)</b> <a href="#">Query details</a> <a href="#">Edit</a> <a href="#">Save Search</a> <a href="#">Create Alert</a>	9,234	Inspec		
<input type="button" value="Delete Search History"/>					<a href="#">View Saved Searches</a>

**Note:** This Search history will contain the latest 50 searches you perform in this session.

# Databases

- ACM – Association for Computer Machinery



<http://dl.acm.org/>

# ACM Digital Library

Complete collection of full text publications from ACM  
(Association for Computing Machinery): includes journals,  
conference proceedings, bulletins, multimedia titles.

ACM Digital Library includes:

- More than 272.000 articles (20.000 new full text articles added yearly)
- More than 2 million full text websites
- 270 Conference Proceedings Titles
- 800 multimedia files with video, audio, animation...



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# ACM Digital Library

Covered areas:

- Artificial Intelligence / Bioinformatics
- Cloud Computing / Compilers
- Graphics / Computer Architecture
- Data Mining / Data Structures
- Databases / Distributed computing
- Embedded Systems / High Performance
- HCI / Security
- Mobility / Modeling
- Open Source / Parallel Computing
- Programming / Object Oriented
- Concurrency / Software Tools
- Social Networks / Software Development
- Reliability / Quality
- Optimization / Software Engineering
- Design Languages / Project Management
- Web / Wireless

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# ACM Digital Library



Spain Consortium  
Universitat Politècnica de Catalunya

[SIGN IN](#) [SIGN UP](#)

Full text of every article ever published by ACM and bibliographic citations from major publishers in computing.

- [Using the ACM Digital Library](#)
- [For Consortia Administrators](#)

## Announcements

- **ACM Transactions on Software Engineering and Methodology Seeks New Editor-in-Chief**  
*ACM Transactions on Software Engineering and Methodology (TOSEM)* is seeking a new Editor-in-Chief. [Nominations](#) are due June 14.
- **Software Category Editor Needed for Computing Reviews**  
*Computing Reviews*, the post-publication review and comment journal of ACM, is seeking a volunteer interested in serving as a category editor for a segment of the software area. Please see the [Software Category Editor search page](#) for more information.
- **New Journal: ACM Transactions on Interactive Intelligent Systems**  
*ACM Transactions on Interactive Intelligent Systems (TIIIS)* publishes research on the design, realization, or evaluation of interactive systems that incorporate some form of machine intelligence. Applications include user interface technologies; recommender systems and information retrieval; automated usability testing; human-robot interaction; semantic technologies; gaming; and mobile and ubiquitous computing. [See the first issue's table of contents in the Digital Library.](#)

## Recently loaded issues and proceedings:

(available in the DL within the past 2 weeks)

- ACM Transactions on Algorithms (TALG)  
[Volume 8 Issue 2](#)
- ACM Transactions on Computational Logic (TOCL)  
[Volume 13 Issue 2](#)
- ACM Transactions on Computing Education (TOCE)  
[Volume 12 Issue 2](#)
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