

# Guide d'utilisation de la base de données : ACM



# ACM Digital Library?

ACM est une société savante fondée en 1947 pour répondre à l'intérêt croissant présenté par des technologies alors en émergence : l'informatique et les ordinateurs. Aujourd'hui ACM compte 95 000 membres et supervise 34 groupes de travail (SIG, Special Interest Groups) dans tous les domaines liés à l'informatique.

L'ACM Digital Library (DL) est la collection la plus complète d'articles en texte intégral et de citations bibliographiques couvrant les domaines de l'informatique et les technologies de l'information.

Le contenu en texte intégral comprend la collection complète des publications d'ACM, y compris les revues, les actes de colloques, les magazines, les bulletins, et les titres multimédia et se compose actuellement de:

- 300 957 articles en texte intégral
- + de 2 millions de pages de texte intégral d'articles
- + 20 000 Nouveaux articles, en texte intégral, sont ajoutés chaque année
- 42 Revues à haut facteur d'impact ; 2-3 nouvelles revues lancées chaque année
- + de 270 titres d'Actes de conférence
- + de 2000 de volumes d'Actes
- 10 magazines (y compris « Communications of the ACM » le titre phare de l'ACM, la publication la plus largement citée dans le domaine de l'informatique)
- Les contributions des 63 Special Interest Groups
- + de 3000 fichiers vidéo
- 342 fichiers audio

# Accéder à ACM

A- Accès via le portail SNDL : <https://www.sndl.cerist.dz>



**Vous serez reconnu par l'adresse IP du SNDL**



# ACM Digital Library – Page d'accueil

S'identifier ou créer un compte personnel

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



Recherche Simple

[SEARCH](#)

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](#)

Annonces

## Announcements

- 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 (TiiS)* 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 Computer Systems (TOCS)  
[Volume 29 Issue 4](#)
- ACM Transactions on Computer-Human Interaction (TOCHI)  
[Volume 18 Issue 4](#)
- ACM Transactions on Management Information Systems (TMIS)

Numeros récemment ajouté

## Advanced Search

Browse the ACM Publications:

- [Journals/Transactions](#)
- [Magazines](#)
- [Proceedings](#)

Browse the Special Interest Groups:

- [Special Interest Groups \(SIGs\)](#)

Browse the Conferences:

- [Recent and Upcoming Conferences](#)
- [Conference Listing](#)

Browse the Special Collections:

- [ACM International Conference Proceeding Series \(ICPS\)](#)
- [Classic Book Series](#)
- [ACM Oral History interviews](#)

Browse the [Publications by Affiliated Organizations](#)

Browse all literature by type

Browse all literature by [Publisher](#)

Browse by the [ACM Computing Classification System](#)

Recherche Avancée

Naviguer par Type de produit



[The Encyclopedia of Computer Science](#)  
"...is the definitive reference in computer science and technology..."

# ACM Digital Library – Créer un compte personnel

The screenshot shows the ACM Digital Library website with a search bar at the top right. The main content area is divided into two columns. The left column has a 'Sign In' section with a 'Sign in with your Web Account' form (containing 'Web account' and 'Password' fields and a 'sign in' button) and a 'Sign in via your Institution' link. The right column has a 'Create a Web account' section. An orange arrow points from the 'continue' button in the 'Create a Web account' section to the 'Sign in with your Web Account' section. Four red circles with numbers 1 through 4 are placed over the interface to indicate steps: 1 is over the 'Email Address' field, 2 is over the 'continue' button, 3 is over the 'Name' section, and 4 is over the 'sign in' button. Four red-bordered boxes with white text provide instructions for each step.

ACM DL DIGITAL LIBRARY DGRS-DT

SIGN IN SIGN UP

SEARCH

### Sign In

**Sign in with your Web Account**

Web account

1

Password

sign in

[Forgot your username or password?](#)

**Sign in via your Institution**

- [Show the list of Institutions](#)

**Create a Web account**

Email Address

cadoc@cadoc.dz

2

continue

ACM Membership is not required to create a free web account.

If you are an ACM or SIG Member or subscriber, the email address you provide must match the one we have on file for you; this will enable you to take full advantage of member benefits.

The ACM Digital Library is published by the Assoc

[Terms of Usage](#) [Privacy](#)

### Sign In

**Sign in with your Web Account**

Web account

4

Password

sign in

[Forgot your username or password?](#)

**Sign in via your Institution**

- [Show the list of Institutions](#)

**Create a Web account**

cadoc@cadoc.dz is not in our records. Create a new ACM Web account now.

**Name**

First Name

Last Name

All fields are required to create your ACM Web Account.

**Account Information**

ACM Web Account Username

Automatically Generated

Password

Confirm Password

**Security Question and Answer**

Question

Answer

With an ACM Web Account you get a single username and password to allow you access to a growing set of functions within the ACM site and beyond.

Your username is automatically generated. You will receive an email confirmation with your account details. You may change your username later by visiting myacm.org.

A password must be between 6 and 26 characters in length and cannot contain spaces.

Create a question that you can answer later exactly as you enter it now. The question and answer combination is kept confidential and is solely for your use in the event that you forget your password.

Case matters: you must type the answer precisely as you enter it now.

Continue

1 Entrer votre adresse email pour créer un nouveau compte et cliquer sur Continue

2 Cliquer sur Continue

3 Remplissez le formulaire

4 Accéder à votre compte après la création

# ACM Digital Library – Parcourir les journaux

The screenshot shows the ACM Digital Library homepage. At the top, there is a search bar and a 'SEARCH' button. Below this, the text 'published by ACM and major publishers in computing.' is visible. The 'Advanced Search' section is highlighted with a red box and a red circle with the number 1. Inside this box, the link 'Journals/Transactions' is underlined and highlighted with a red box. An orange arrow points from this link down to the 'ACM Journals/Transactions' section, which is also highlighted with a red box and a red circle with the number 2. This section contains a search bar and a 'SEARCH' button. Below the search bar, there are three journal listings, each with a thumbnail image and a title. The first listing is for 'CSUR ACM Computing Surveys (CSUR)', the second is for 'JACM Journal of the ACM (JACM)', and the third is for 'JDIQ Journal of Data and Information Quality (JDIQ)'. The third listing is highlighted with a red box and a red circle with the number 3. At the bottom of the page, there are three red boxes with white text and red circles with numbers 1, 2, and 3. The first box contains the text 'Cliquer sur le produit voulu', the second box contains 'Recherche dans les journaux', and the third box contains 'La liste des journaux disponible dans ACM'.

published by ACM and major publishers in computing.

**Advanced Search**

Browse the ACM Publications:

- Journals/Transactions

ACM DL DIGITAL LIBRARY

DGRS-DT

My Binders SIGN OUT: cadoc cadoc

**ACM Journals/Transactions**

Search within the ACM Journals:

**CSUR** ACM Computing Surveys (CSUR)

These comprehensive, readable tutorials and survey papers give guided tours through the literature and explain topics to those who seek to learn the basics of areas outside their specialties. The carefully planned and presented introductions in Computing Surveys (CSUR) are also an excellent way for professionals to develop perspectives on, and identify trends in complex technologies. Recent issues have covered image understanding, software reusability, and object and relational database topics.

**JACM** Journal of the ACM (JACM)

The Journal of the ACM (JACM) aims to provide coverage of the most significant work going on in computer science, broadly construed. We publish original research papers of lasting value in computer science. To be accepted, a paper must be judged to be truly outstanding in its field and to be of interest to a wide audience. We are particularly interested in work at the boundaries, both the boundaries of sub disciplines of computer science and the boundaries between computer science and other fields.

**JDIQ** Journal of Data and Information Quality (JDIQ)

JDIQ's mission is to publish high quality articles that make a significant and novel contribution to the field of Data and Information Quality. JDIQ welcomes research contributions on the following areas, but not limited to: Context; Database related technical solutions for Information Quality; Information Quality in the context of Computer Science and Information Technology; Information Quality.

Cliquer sur le produit voulu

Recherche dans les journaux

La liste des journaux disponible dans ACM

# ACM Digital Library – Parcourir les journaux

## ACM Journals/Transactions



### CSUR ACM Computing Surveys (CSUR)

These comprehensive, readable tutorials and survey papers give guided tours through the literature and explain topics to those who seek to learn the basics of areas outside their specialties. The carefully planned and presented introductions in *Computing Surveys (CSUR)* are also an excellent way for professionals to develop perspectives on, and identify trends in complex technologies. Recent issues have covered image understanding, software reusability, and object and relational database topics.

Search within CSUR:

SEARCH

About Award Winner Author: Affiliation Publication Archive

#### CSUR subject areas

[Access methods](#) [Compilers](#) [Design Tools and Techniques](#) [Distributed applications](#) [Distributed databases](#) [Frameworks](#) [Hypertext/Hypermedia](#) [INTRODUCTORY AND SURVEY](#) [Object-oriented Programming](#) [Organizations](#) [evaluation](#) [Sorting and searching](#)

#### Bibliometrics: publication history

Publication years	1969-2011
Publication count	1,231
Citation Count	29,508
Available for download	1,231
Downloads (6 Weeks)	20,796
Downloads (12 Months)	171,321
Downloads (cumulative)	2,113,732
Average downloads per article	1,717.09
Average citations per article	23.97

Top 10 Downloaded Articles (past 6 weeks) / [Top 10 Most Cited Articles](#)

1. [Factors that affect software systems development project outcomes: A survey of research](#)  
Laurie McLeod, Stephen G. MacDonell  
Downloaded 498 times

1 Le titre et la couverture du journal sélectionné

2 Description du journal sélectionné

4 Informations sur le journal sélectionné

Les dix (10) articles les plus téléchargés

3 Pour accéder au full-text

Les dix (10) articles les plus cités

ACM DL DIGITAL LIBRARY

## ACM Journals/Transactions



### CSUR ACM Computing Surveys (CSUR)

These comprehensive, readable tutorials and survey papers give guided tours through the literature and explain topics to those who seek to learn the basics of areas outside their specialties. The carefully planned and presented introductions in *Computing Surveys (CSUR)* are also an excellent way for professionals to develop perspectives on, and identify trends in complex technologies. Recent issues have covered image understanding, software reusability, and object and relational database topics.

Search within CSUR:

SEARCH

About Award Winners Authors Affiliations Publication Archive

#### ACM Computing Surveys (CSUR) Archive

2013  
Volume 45 Issue 2, February 2013

2012  
Volume 45 Issue 1, November 2012  
Volume 44 Issue 4, August 2012  
Volume 44 Issue 3, June 2012  
Volume 44 Issue 2, February 2012

ACM DL DIGITAL LIBRARY

DGR5-DT

SIGN IN SIGN UP

### ACM Computing Surveys (CSUR)

Volume 45 Issue 2, February 2013 [table of contents](#)

Published in:

Journal  
CSUR ACM Computing Surveys (CSUR) archive  
ACM New York, NY, USA  
[table of contents](#) ISSN: 0360-0300 EISSN: 1557-7341



#### Bibliometrics

Downloads (6 Weeks): n/a  
Downloads (12 Months): n/a  
Downloads (cumulative): n/a  
Citation Count: 0

#### Tools and Resources

TOC Service:  
Email RSS  
Save to Binder  
Export Formats:  
BibTeX Endnote ACM Ref  
Share:  
Facebook Twitter LinkedIn YouTube

Feedback | [Switch to single page view \(no tabs\)](#)

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

#### ACM Computing Surveys (CSUR)

Volume 45 Issue 2, February 2013

#### Table of Contents

[previous issue](#) | no next issue

The exact online string matching problem: A review of the most recent results  
Simone Faro, Thierry Lecoq  
Article No.: 13  
doi:10.1145/2431211.2431212  
Full text: PDF



# ACM Digital Library – Parcourir les journaux

Résultats de recherche dans la revue sélectionnée

ACM DL DIGITAL LIBRARY DGRS-DT

Searching within CSUR for: server (start a new search)

Found 645 within Publications from ACM and Affiliated Organizations (Full-Text collection)

Expand your search to [The ACM Guide to Computing Literature](#) (Bibliographic citations from major publishers in computing)

REFINE YOUR SEARCH

Search Results

Results 1 - 20 of 645

Sort Result p

1 Client-server computing in mobile environments  
Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid  
June 1999 **Computing Surveys (CSUR)**, Volume 31 Issue 2  
Publisher: ACM [Request Permissions](#)  
Full text available: [Pdf](#) (239.31 KB)  
**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 362, Downloads (Overall): 7296, C  
Recent advances in wireless data networking and portable information appliances have engendered a n  
computing, called mobile computing, in which users carrying portable devices have access to data and  
services ...  
**Keywords:** application adaptation, cache invalidation, caching, client/server, data dissemination, disc  
mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, s

2 The state of the art in locally distributed Web-server systems  
Valeria Cardellini, Emiliano Casalicchio, Michele Colaianni, Philip S. Yu  
June 2002 **Computing Surveys (CSUR)**, Volume 34 Issue 2  
Publisher: ACM [Request Permissions](#)  
Full text available: [Pdf](#) (1.41 MB)  
**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 308, Downloads (Overall): 8437, C

ADVANCED SEARCH [Advanced Search](#)

FEEDBACK [Please provide us with feedback](#)

Found 645 of 1,410

## ACM Journals/Transactions



### CSUR ACM Computing Surveys (CSUR)

These comprehensive, readable tutorials and survey papers give guided tours through the literature and explain topics those who seek to learn the basics of areas outside their specialties. The carefully planned and presented introductions *Computing Surveys (CSUR)* are also an excellent way for professionals to develop perspectives on, and identify trends in complex technologies. Recent issues have covered image understanding, software reusability, and object and relational database topics.

Search within CSUR: server

SEARCH

Ab... Award... Auth... Affiliati... Publication Arc...

#### CSUR Object areas

[Access methods](#) [Compilers](#) [Design Tools and Techniques](#)  
[Distributed applications](#) [Distributed databases](#) [Distributed systems](#)  
**Frameworks**  
**Hypertext/Hypermedia**  
**INTRODUCTORY AND SURVEY**  
[Object-oriented Programming](#) [Optimization](#)  
**Organizations** [Parallelism and concurrency](#) [Partial](#)  
[evaluation](#) [Sorting and searching](#)

#### Bibliometrics: publication history

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Average downloads per article	1,717.09
Average citations per article	23.97

Top 10 Downloaded Articles (past 6 weeks) / [Top 10 Most Cited Articles](#)

1. [Factors that affect software systems development project outcomes: A survey of research](#) - 2011

Laurie McLeod, Stephen G. MacDonell

Downloaded 498 times

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### Factors that affect software systems development project outcomes: A survey of research

Full Text: [Pdf](#)

see [source materials](#) below for [more options](#)

Authors: [Laurie McLeod](#) Auckland University of Technology, Auckland, New Zealand

[Stephen G. MacDonell](#) Auckland University of Technology, Auckland, New Zealand

Published in:

Journal  
ACM Computing Surveys (CSUR) [Surveys Homepage](#) [archive](#)  
Volume 43 Issue 4, October 2011  
ACM New York, NY, USA  
[Table of contents](#) doi:10.1145/1978902.1978903

2011 Article

- Research
- Refereed

#### Bibliometrics

Downloads (6 Weeks): 498  
Downloads (12 Months): 883  
Citation Count: 0

#### Tools and Resources

[Buy this Article](#)

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TOC Service:

[Email](#) [RSS](#)

[Save to Binder](#)

Export Formats:

[BibTeX](#) [EndNote](#) [ACM](#)

Share:

[Facebook](#) [Twitter](#) [LinkedIn](#) [Google+](#)

Tags: design develop

processes institutional c

management management

and action project conte

outcomes software mar

Consultation d'un article de la revue sélectionnée

[Back](#) | [Switch to single page view](#) (no tabs)

Abstract [Source Materials](#) [Authors](#) [References](#) [Cited By](#) [Index Terms](#) [Publication](#) [Reviews](#) [Comments](#) [Table of Contents](#)

Determining the factors that have an influence on software systems development and deployment project outcomes has been the fr  
of extensive and ongoing research for more than 30 years. We provide here a survey of the research literature that has addressed t  
topic in the period 1996-2006, with a particular focus on empirical analyses. On the basis of this survey we present a new classifica



# ACM Digital Library – Recherche simple

La recherche simple se fait dans les revues de ACM et les revues des organisations affiliées à ACM

My Binders SIGN OUT: cadoc cadoc

computer

SEARCH

Entrer vos mots clefs et cliquer sur search

Liste des résultats

Outils pour affiner votre recherche

ACM LIBRARY

Searching for: computer ([start a new search](#))  
Found **275,396** within *Publications from ACM and Affiliated Organizations* (Full-Text collection)  
**Expand your search** to [The ACM Guide to Computing Literature](#) (Bibliographic citations from major publishers in computing: 1,763,872 records)

**REFINE YOUR SEARCH**

- ▼ Refine by Keywords
  - computer
- ▼ Refine by People
  - [Names](#)
  - [Institutions](#)
  - [Authors](#)
  - [Editors](#)
  - [Reviewers](#)
- ▼ Refine by Publications
  - [Publication Year](#)
  - [Publication Names](#)
  - [ACM Publications](#)
  - [All Publications](#)
  - [Content Formats](#)
  - [Publishers](#)
- ▼ Refine by Conferences
  - [Sponsors](#)
  - [Events](#)
  - [Proceeding Series](#)

**ADVANCED SEARCH**

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

Results 1 - 20 of 275,396

Sort by: relevance in expanded form  
Result page: 1 2 3 4 5 6 7 8 9 10 next

1 [A model for high school computer science education: the four key elements that make it!](#)  
Orit Hazzan, Judith Gal-Ezer, Lenore Blum  
February 2008 **SIGCSE '08: Proceedings of the 39th SIGCSE technical symposium on Computer science education**  
**Publisher:** ACM [Request Permissions](#)  
Full text available: [Pdf](#) (228.21 KB)  
**Bibliometrics:** Downloads (6 Weeks): 125, Downloads (12 Months): 646, Downloads (Overall): 1201, Citation Count

This paper presents a model program for high school computer science education. It is based on an analysis of the structure of the Israeli high school computer science curriculum considered to be one of the leading curricula worldwide. The model consists ...

**Keywords:** computer science education, computer science education research, curriculum, teacher preparation program, teaching certificate

Also published in:  
February 2008 SIGCSE Bulletin Volume 40 Issue 1

2 [Enthusing and informing potential computer science students and their teachers](#)  
Quintin I. Cutts, Margaret I. Brown, Lynsey Kemp, Calum Matheson  
February 2008 **SIGCSE '08: Proceedings of the 39th SIGCSE technical symposium on Computer science education**

# ACM Digital Library – Recherche avancée

cliquer sur Advanced search

**Advanced Search**

Outils de recherche par mots clefs

Outils de recherche par Auteurs

Outils de recherche par ou dans les publications

Outils de recherche par Conference

Outils de recherche par Code « ISSN, ISBN »

Outils de recherche par Code de classification

cadoc cadoc

SEARCH

[any field] [any field] Title Abstract Review

**SEARCH**

**Words or Phrases**

Find [any field] with

all of this text (and)

any of this text (or)

none of this text (not)

**Names**

Find [any field] with names

using ☒ all ☐ any ☐ none of the names

**Affiliations**

Find company or school

using ☒ all ☐ any ☐ none of the affiliations

**Publication**

Find publication

using ☒ all ☐ any ☐ none of the names

Find publisher

using ☒ any ☐ none of the names

Published since [year] Published before [year]

In publication types ☐ Journal ☐ Proceeding ☐ Transaction ☐ Magazine ☐ Newsletter

**Conference**

Find sponsor names

using ☒ all ☐ any ☐ none of the names

Find year (yyyy)

using ☒ any ☐ none of the years

**Identification codes**

Find ISBN/ISSN

Find DOI

**Computing Classification System (CCS)**

Find node

Find subject/noun

☐ Look at primary category only

**Required components**

Results must have ☐ Full Text ☐ Abstract ☐ Review

**SEARCH**

[any field] [any field] Authors Editors Advisors Reviewers

# ACM Digital Library – Exploitation des résultats

The image shows a screenshot of the ACM Digital Library search results page. The page is annotated with several red boxes and arrows pointing to specific features. The annotations are in French and describe the following elements:

- Outils pour affiner votre recherche**: Points to the 'REFINE YOUR SEARCH' sidebar on the left.
- Liste des résultats**: Points to the 'Search Results' tab at the top of the results section.
- Les journaux reliées avec votre recherche**: Points to the 'Related Journals' tab.
- Les Magazines reliées avec votre recherche**: Points to the 'Related Magazines' tab.
- Les journaux reliées avec votre recherche**: Points to the 'Related SIGs' tab.
- Les journaux reliées avec votre recherche**: Points to the 'Related Conferences' tab.
- Les titres des articles**: Points to the article titles in the search results list.
- Informations sur l'article**: Points to the detailed information for the first article, including the publisher and bibliometrics.
- Triez et naviguez dans les résultats**: Points to the sorting and pagination controls at the top right of the results list.

The search results page displays the following information:

Searching for: (computer) ([start a new search](#))  
Found **1,290,939** within *Publications from ACM and Affiliated Organizations* (Full-Text collection)  
**Expand your search** to [The ACM Guide to Computing Literature](#) (Bibliographic citations from major publishers in computing: 1,763,872 records)

**REFINE YOUR SEARCH**

- ▼ Refine by Keywords  
  
[SEARCH](#)
- ▼ Refine by People  
[Names](#)  
[Institutions](#)  
[Authors](#)  
[Editors](#)  
[Advisors](#)  
[Reviewers](#)
- ▼ Refine by Publications  
[Publication Year](#)  
[Publication Names](#)  
[ACM Publications](#)  
[All Publications](#)  
[Content Formats](#)  
[Publishers](#)
- ▼ Refine by Conferences  
[Sponsors](#)  
[Events](#)  
[Proceeding Series](#)

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

Results 1 - 20 of 1,290,939

Sort by [relevance](#) in [expanded form](#)  
Result page: [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) [10](#) [next](#)

- 1** [Stochastic Wind-Thermal Generation Scheduling Considering Emission Reduction: A Multiobjective Mathematical Programming Approach](#)  
[M. A. Khorsand](#), [A. Zakariazadeh](#), [S. Jadid](#)  
March 2011 **APPEEC '11: Proceedings of the 2011 Asia-Pacific Power and Energy Engineering Conference**  
**Publisher:** IEEE Computer Society  
**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: NA
- 2** [A GIS Based Service-Oriented Power Grid Intelligent Planning System](#)  
[Jiong Yan](#), [Kun-Peng Zhou](#), [Chang-Hong Deng](#), [Jun-Chang Huang](#)  
March 2011 **APPEEC '11: Proceedings of the 2011 Asia-Pacific Power and Energy Engineering Conference**  
**Publisher:** IEEE Computer Society  
**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count: NA
- 3** [Inside risks: the clock grows at midnight](#)  
[Peter G. Neumann](#)

# ACM Digital Library – Recherche Avancée

Recherche par mot  
clef dans les résultats  
trouvés

Filtrer par type de  
population « Noms,  
Institutions, Auteurs,  
Editeurs..... »

Filtrer par publication «  
Année, Noms..... »

Outils de recherche par  
Code de classification

**REFINE YOUR SEARCH**

Search Results 1

▼ **Refine by Keywords**

**SEARCH**

▼ **Refine by People**

[Names](#)  
[Institutions](#)  
[Authors](#)  
[Editors](#)  
[Advisors](#)  
[Reviewers](#)

▼ **Refine by Publications**

[Publication Year](#)  
[Publication Names](#)  
**[ACM Publications](#)**  
[All Publications](#)  
[Content Formats](#)  
[Publishers](#)

▼ **Refine by Conferences**

[Sponsors](#)  
[Events](#)  
[Proceeding Series](#)

**REFINE YOUR SEARCH**

► Refine by Keywords

► Refine by People

▼ **Refine by Publications**

[Publication Year](#)  
[Publication Names](#)  
**[ACM Publications](#)**  
[Proceeding \(70,792\)](#)  
[Newsletter \(4,147\)](#)  
[Magazine \(3,972\)](#)  
[Transaction \(3,788\)](#)  
**[Journal \(646\)](#)**  
[Book \(27\)](#)  
[Affil \(9\)](#)  
[More ...](#)

[All Publications](#)  
[Content Formats](#)  
[Publishers](#)

► Refine by Conferences

Filtrage des résultats par  
« Journals »

# ACM Digital Library – Recherche Avancée

**REFINE YOUR SEARCH**

Search Results | Related Journals | Related Magazines

Results 1 - 20 of 646

Sort by relevance in expand

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

1 Modeling light scattering for virtual heritage

Diego Gutierrez, Veronica Sundstedt, Fermin Gomez, Alan Chalmers

October 2008 Journal on Computing and Cultural Heritage (JOCCH), Volume 1 Issue 2

**Titre de l'article**

**Full text en PDF**

**Liste des auteurs avec leurs affiliations**

**Données sur l'article**

**Modeling light scattering for virtual heritage**

Full Text: Pdf

Authors: Diego Gutierrez Universidad de Zaragoza, Zaragoza, Spain  
Veronica Sundstedt University of Bristol, UK  
Fermin Gomez Universidad de Zaragoza, Zaragoza, Spain  
Alan Chalmers University of Warwick, UK

Published in:  
Journal  
Journal on Computing and Cultural Heritage (JOCCH) JOCCH Homepage archive  
Volume 1 Issue 2, October 2008  
ACM New York, NY, USA  
table of contents doi>10.1145/1434763.1434765

**Références de l'article**

**Auteurs de l'article**

**Résumé**

**Citations reçues**

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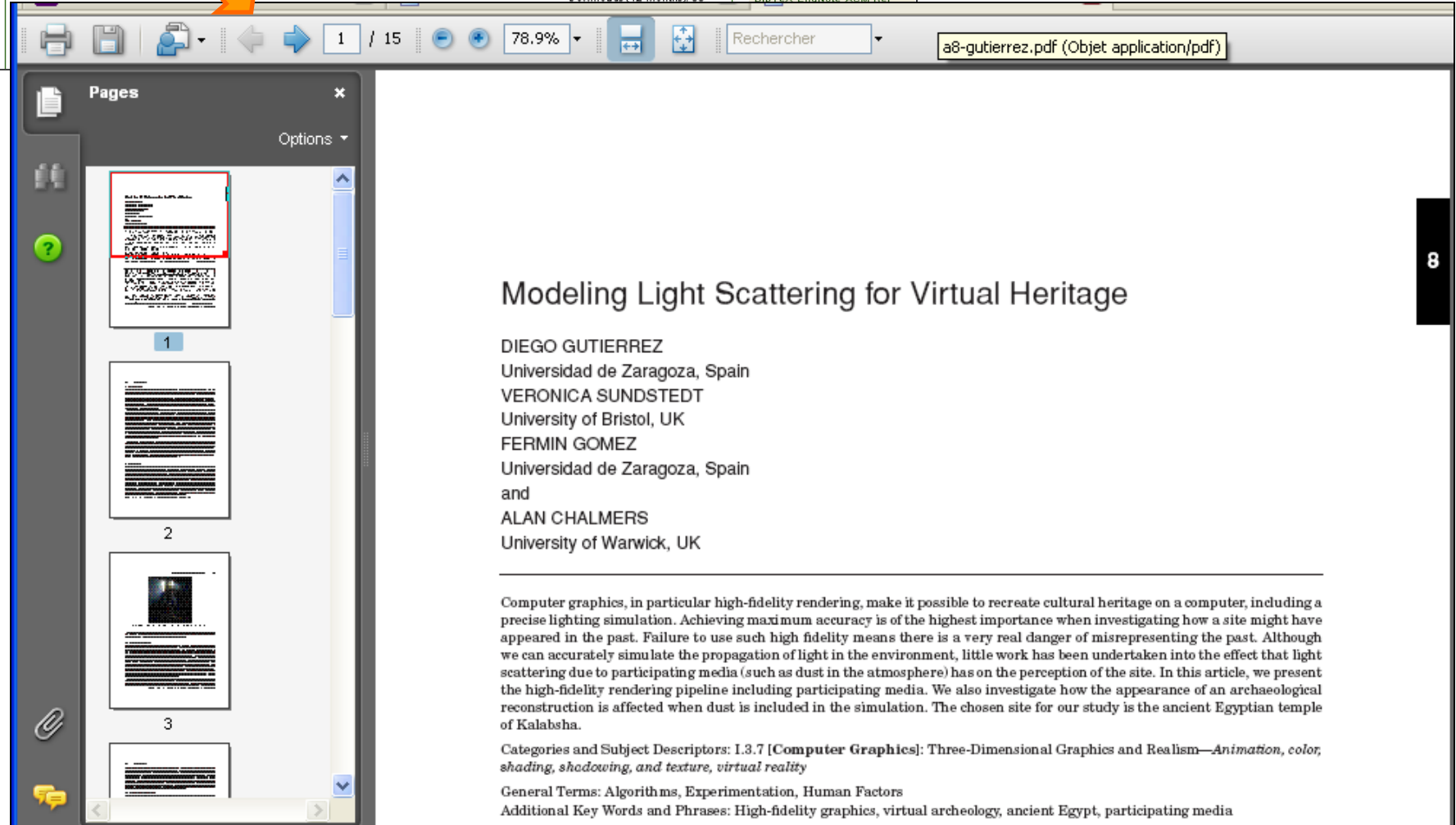
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## Modeling Light Scattering for Virtual Heritage

DIEGO GUTIERREZ  
Universidad de Zaragoza, Spain  
VERONICA SUNDSTEDT  
University of Bristol, UK  
FERMIN GOMEZ  
Universidad de Zaragoza, Spain  
and  
ALAN CHALMERS  
University of Warwick, UK

Computer graphics, in particular high-fidelity rendering, make it possible to recreate cultural heritage on a computer, including a precise lighting simulation. Achieving maximum accuracy is of the highest importance when investigating how a site might have appeared in the past. Failure to use such high fidelity means there is a very real danger of misrepresenting the past. Although we can accurately simulate the propagation of light in the environment, little work has been undertaken into the effect that light scattering due to participating media (such as dust in the atmosphere) has on the perception of the site. In this article, we present the high-fidelity rendering pipeline including participating media. We also investigate how the appearance of an archaeological reconstruction is affected when dust is included in the simulation. The chosen site for our study is the ancient Egyptian temple of Kalabsha.

Categories and Subject Descriptors: I.3.7 [Computer Graphics]: Three-Dimensional Graphics and Realism—*Animation, color, shading, shadowing, and texture, virtual reality*

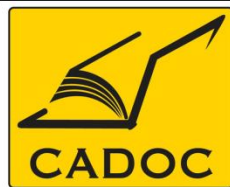
General Terms: Algorithms, Experimentation, Human Factors

Additional Key Words and Phrases: High-fidelity graphics, virtual archeology, ancient Egypt, participating media





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