Power tools and how to use them

ROYAL INSTITUTE
OF TECHNOLOGY

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My personal goal: To be lazy

However, I'm willing to work hard to be lazy!

$\therefore$ if I am likely to have to do something more than once, automate the task!

$$(time\ to\ automate\ generic\ task\ + N * average\ time\ to\ do\ automated\ task) \ll \sum_{i=1}^{N} time\ to\ do\ task_i$$

when N >> 2

No matter what tool you use, learn to use it

- Value your **own** time – investing a little time to learn how to use your tool well will save you lots of time (in the long run)
- Avoid looking dumb – do **not** hurt yourself with your choice of tool

Topics

- Where to find **authoritative** sources
- **Communications tools** – particularly for written communication (a later talk will focus on oral communication)
  - Tools for helping you with your **references**
  - Reference **formats**
  - Digital object **identifiers**
  - Citation **formats**

Communication tools & techniques

- Oral presentations
- Conference papers, Journal papers, …
- Web sites, blogs, …
- Open source code/hardware
- Applications & Products
- News releases
- Podcasts, videos, and multimedia presentations
- Popular books, newspaper columns, …
- Communicating with journalists, reporters, …

From Aristotle's rhetoric to the basic principles of a presentation

Logos – appeal based upon logic or reason

Ethos – appeal based on ethics (for example the credibility of the speaker/writer)

Pathos (suffering) – emotional or motivational appeal

$\Rightarrow$

1. Story
2. Reason
3. Persuasion

Before we communicate, we need to have something to communicate

- **Doing** your **own** work:
  - Original research (conceive)
  - Development (design, implement, operate & evaluate)
- **Describing** the **results** of yourself and/or others:
  - Patents
  - Review, survey, and scholarly articles
  - Books: textbooks, professional literature, …
  - Popular press/media

Finding sources and citing them

What have others done and how can you find, read, describe, and cite this work?

We will start with the problem of finding **suitable** sources:

- Search engines (both via web and library)
- Developing your reading habits: review articles, journals, conference proceedings, books, …
- Following experts in the field
- Asking others

What about Wikipedia?

- Wikipedia is not a **primary** source
- What is a source?
  - the work itself
  - author
  - publisher
- **Reliable source**:
  - Published materials with a *reliable publication process*
  - *Authoritative author*
  - ***Verifiable***: following the citation you should be able to find the source

Common places to look – for ICT sources

- ACM Digital Library
- IEEE *Xplore*® Digital Library
- Institute of Engineering and Technology (IET) Inspec
- CiteSeerX (http://citeseerx.ist.psu.edu/)
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Additonal common places to look – for ICT sources

- DiVA (kth.diva-portal.org): KTH publications (including theses and dissertations) – see also www.essays.se, www.dissertations.se, libris.kb.se/index.jsp?language=en
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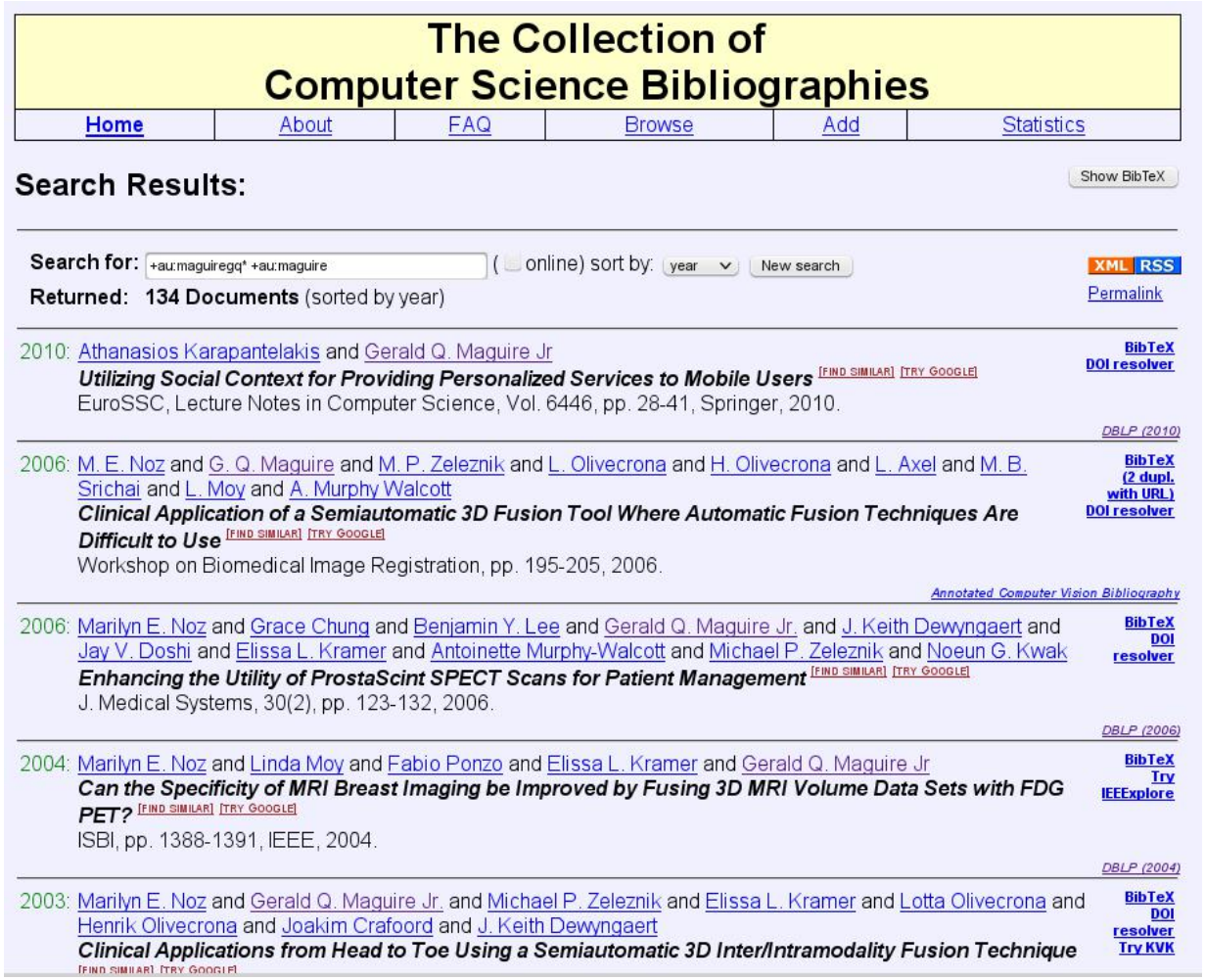

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2006: M. E. Noz and G. Q. Maguire and M. P. Zeleznik and L. Olivecrona and H. Olivecrona and L. Axel and M. B. Srichai and L. Moy and A. Murphy Walcott
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J. Medical Systems, 30(2), pp. 123-132, 2006.
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- Write down **all** the necessary reference information, so that you can:
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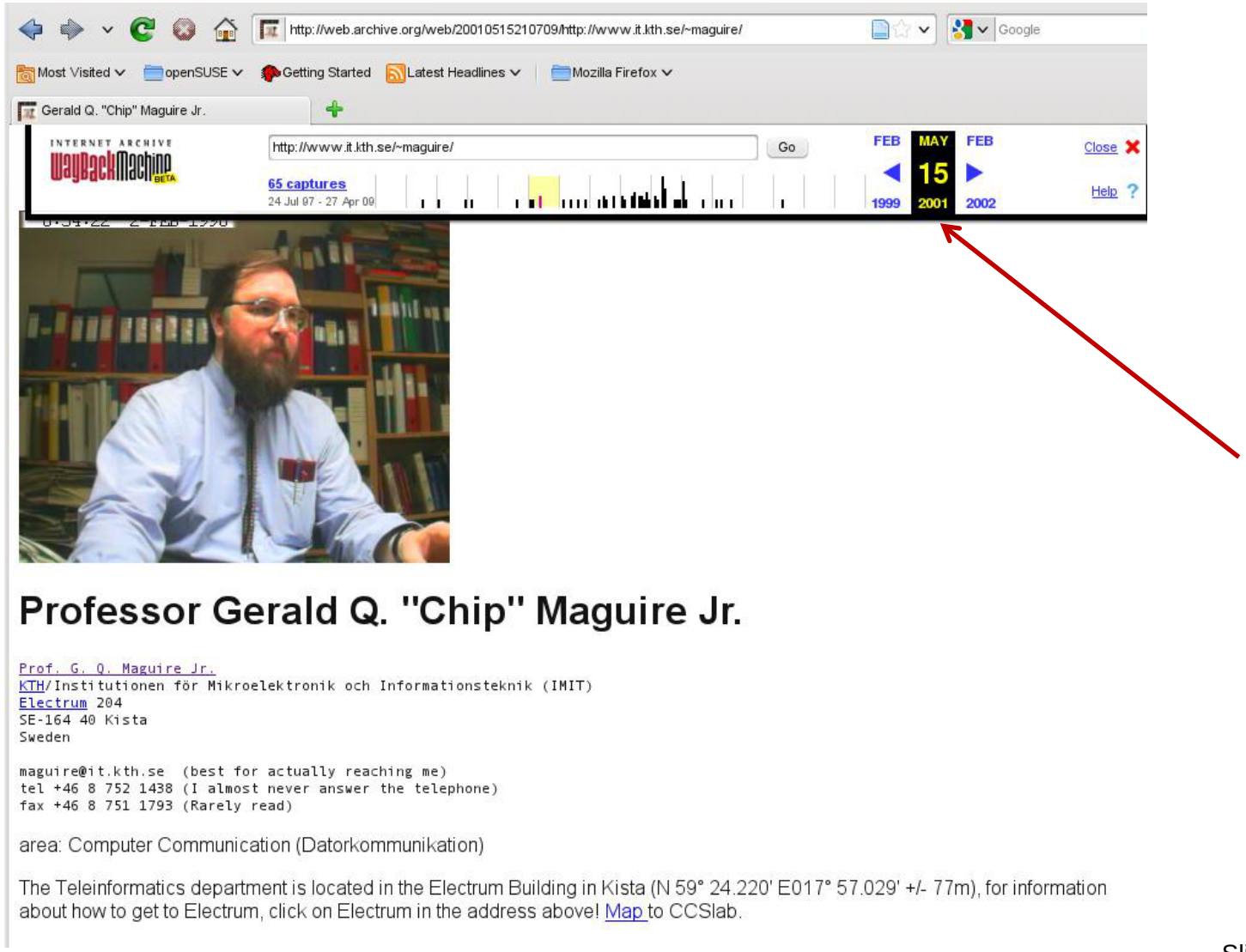

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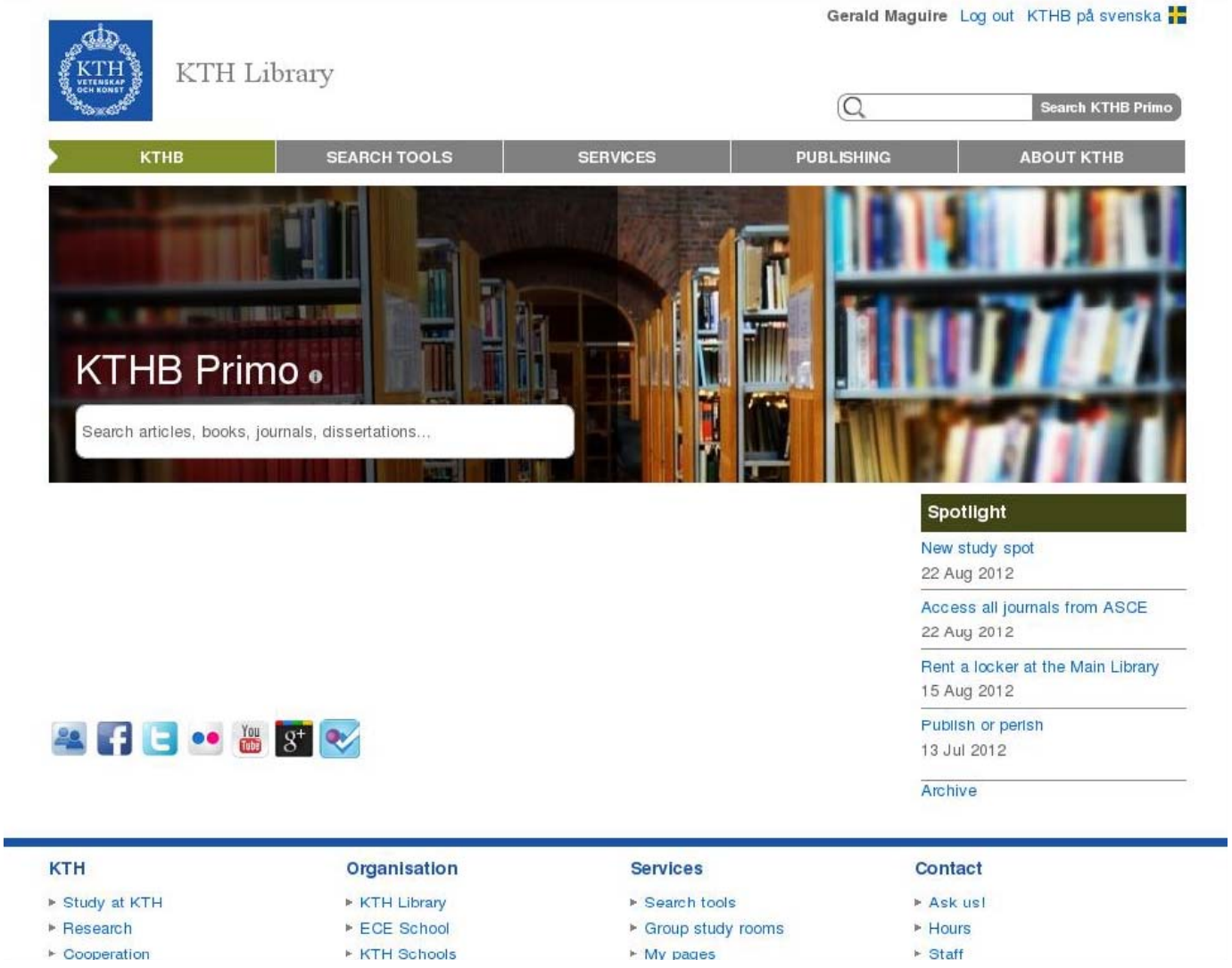

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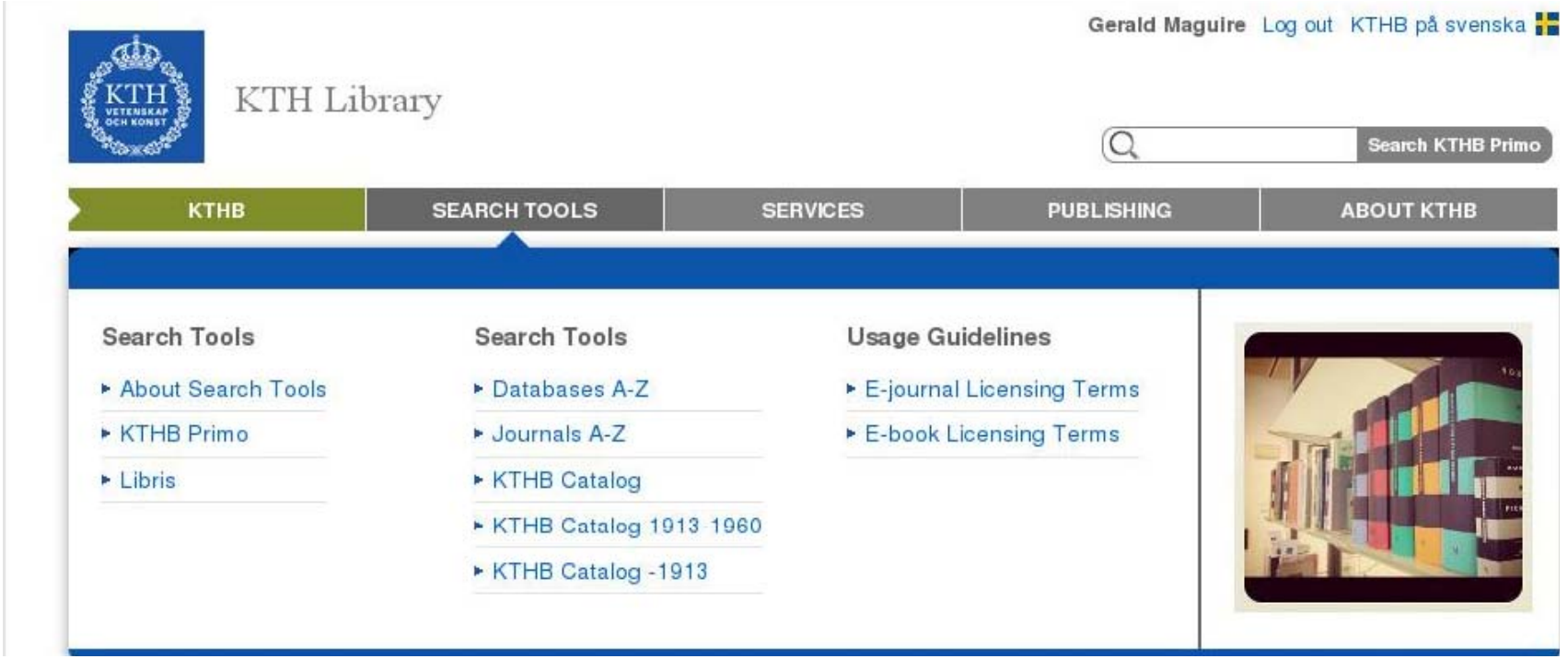

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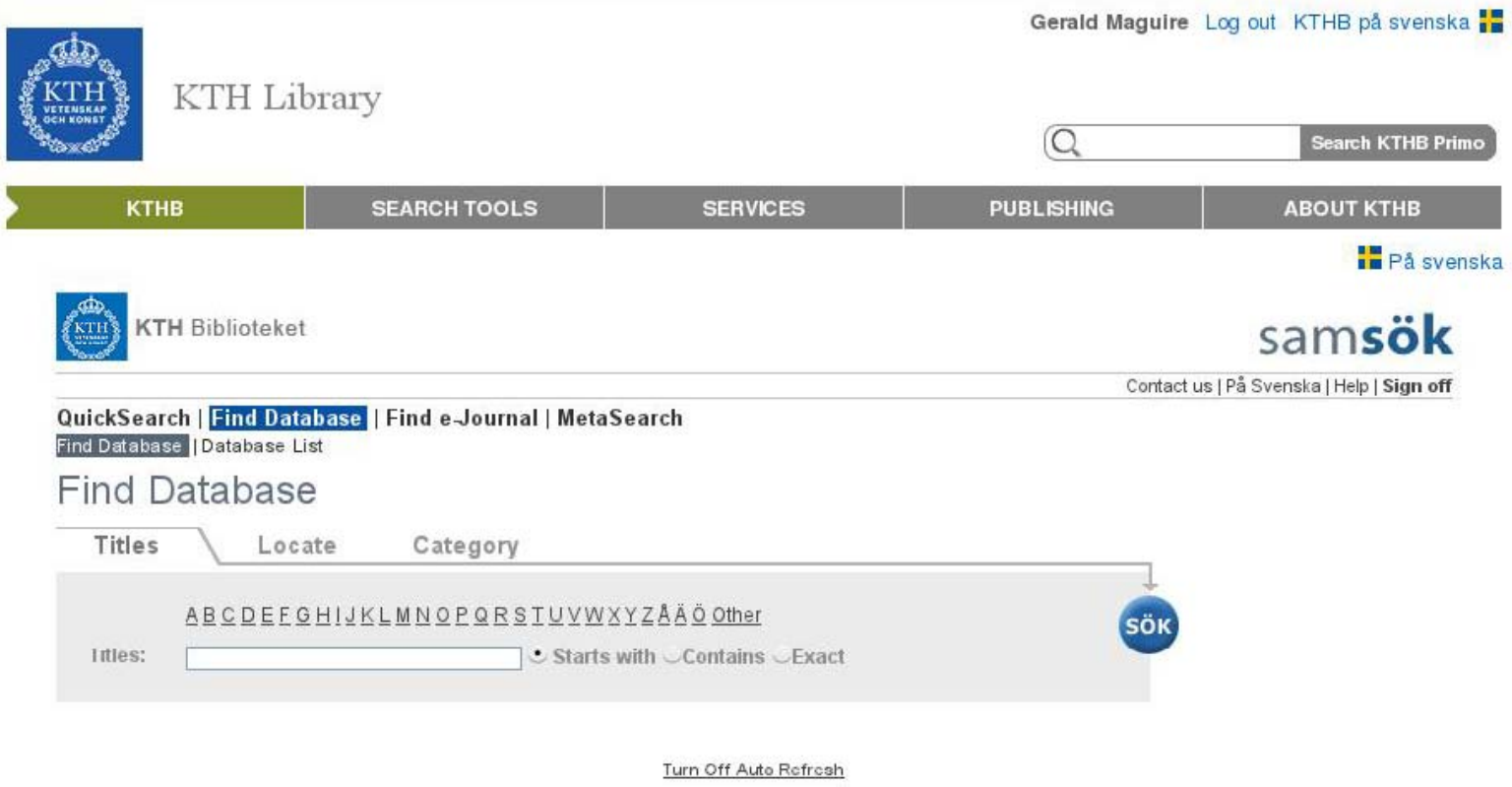

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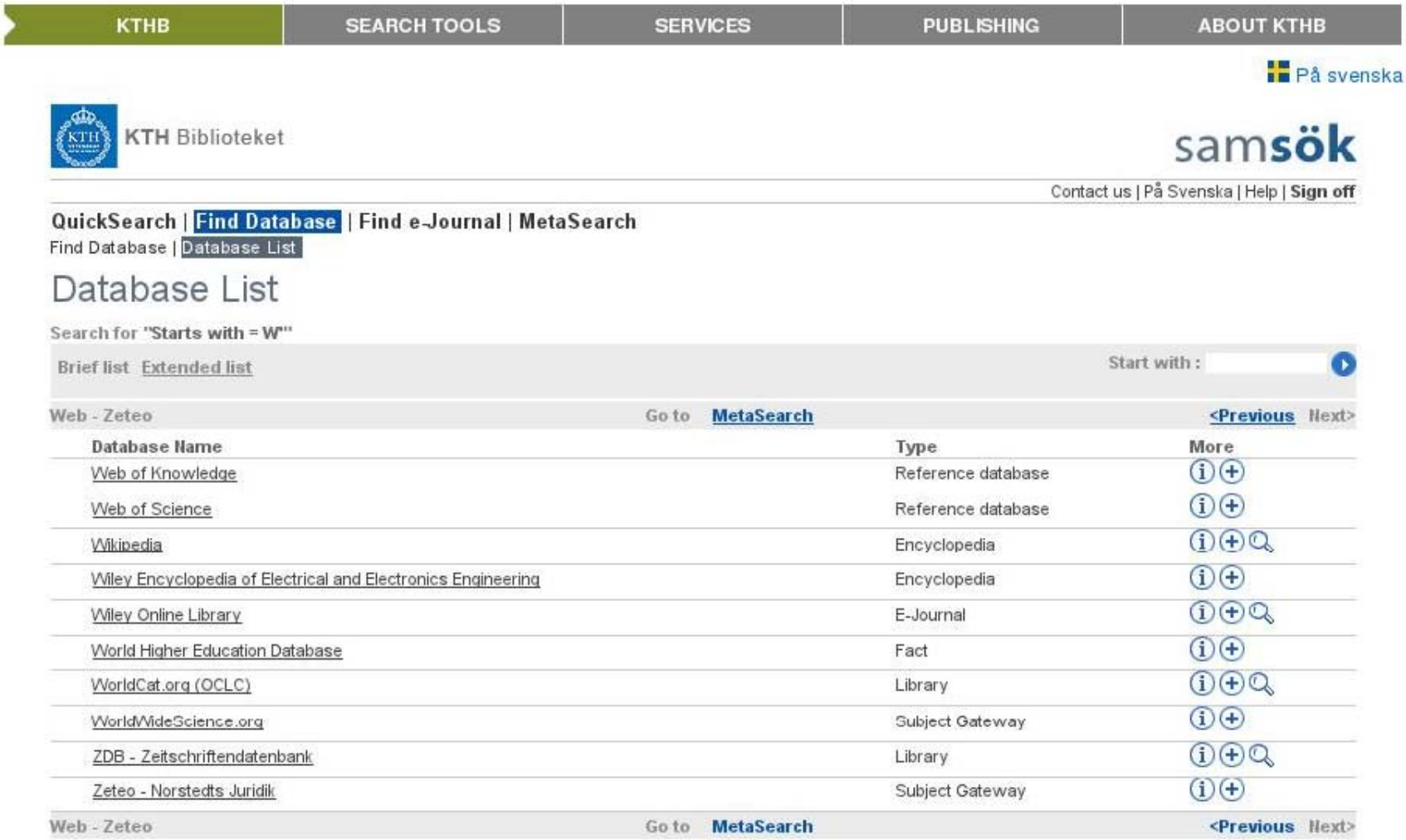

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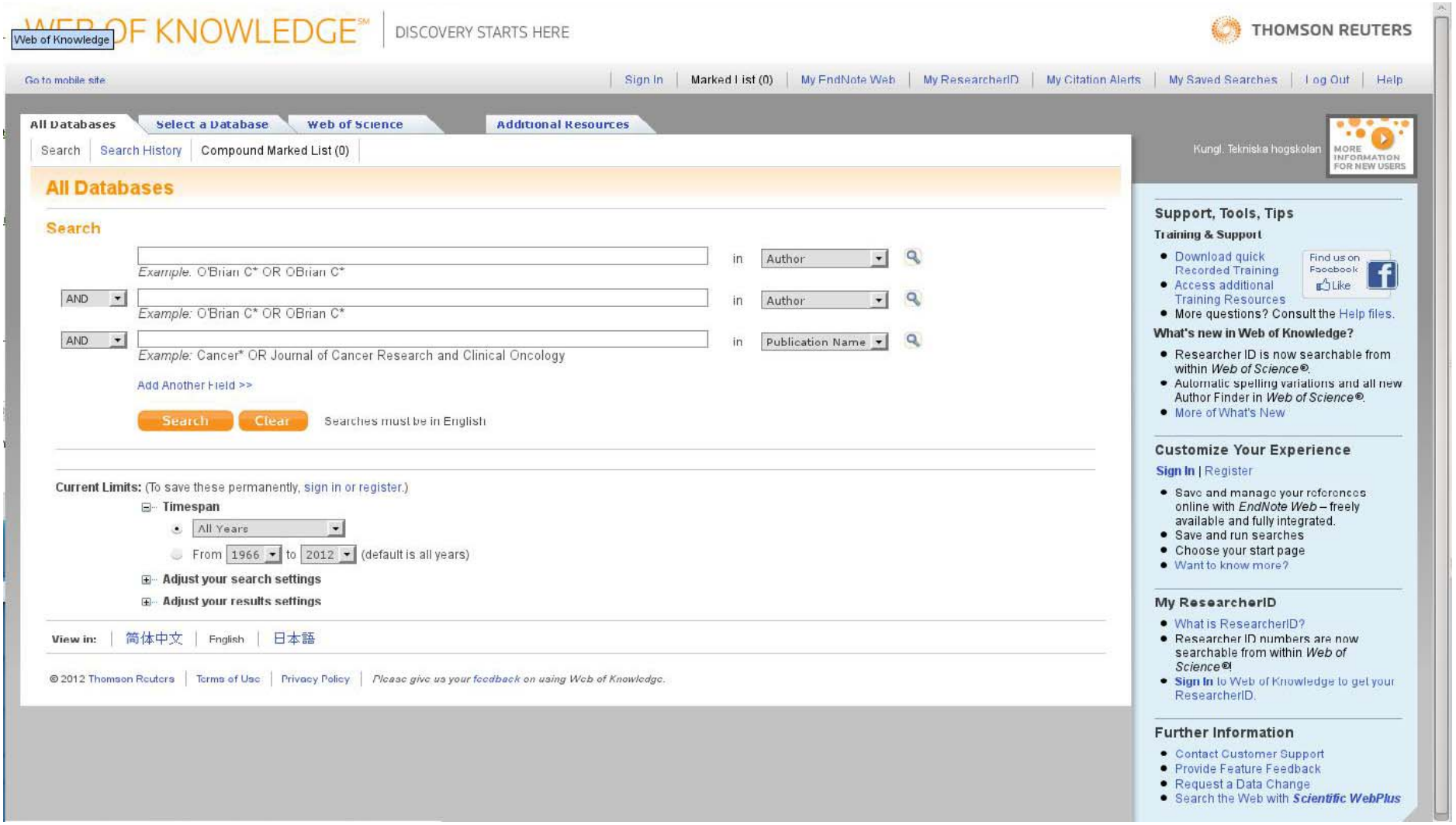

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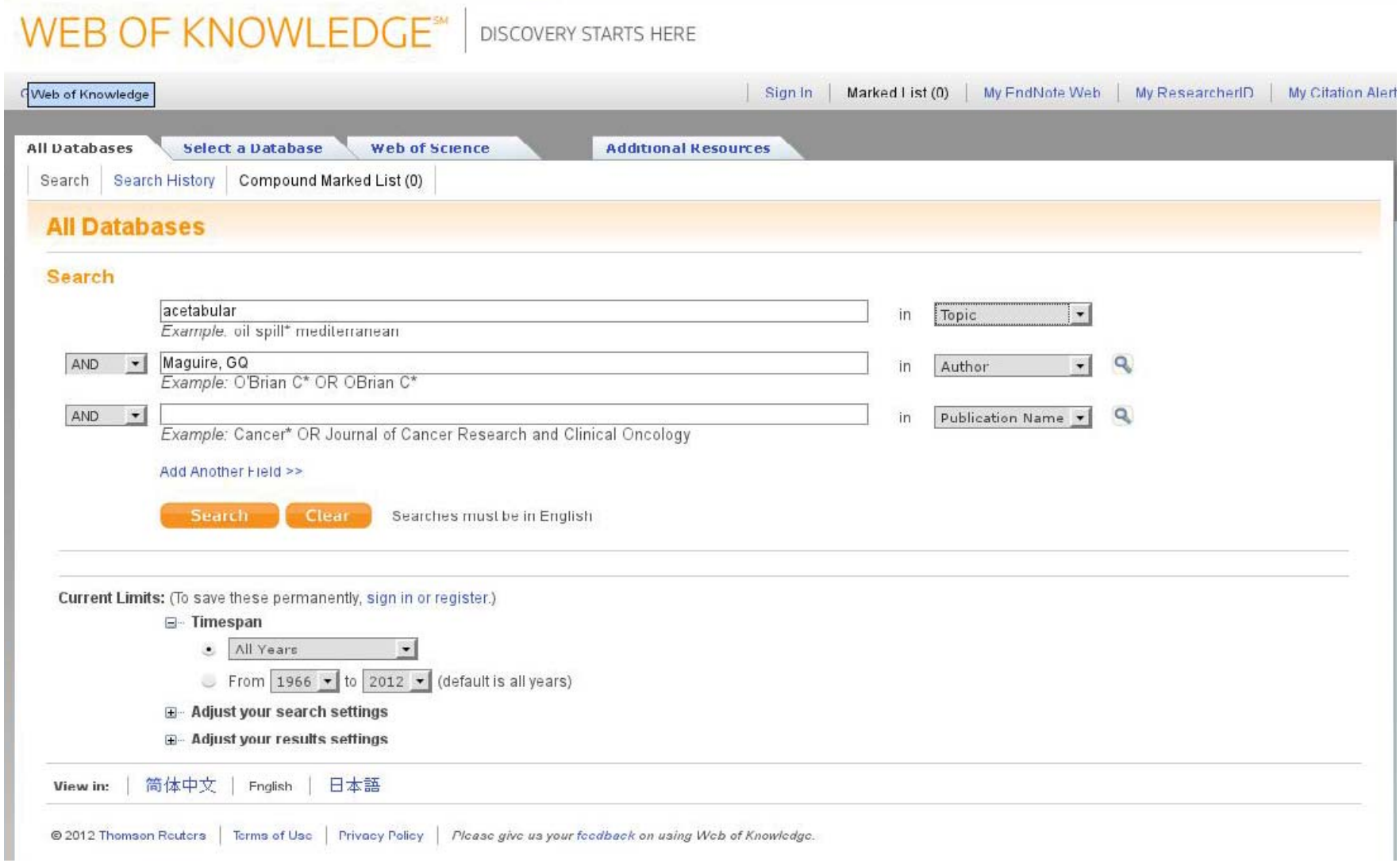

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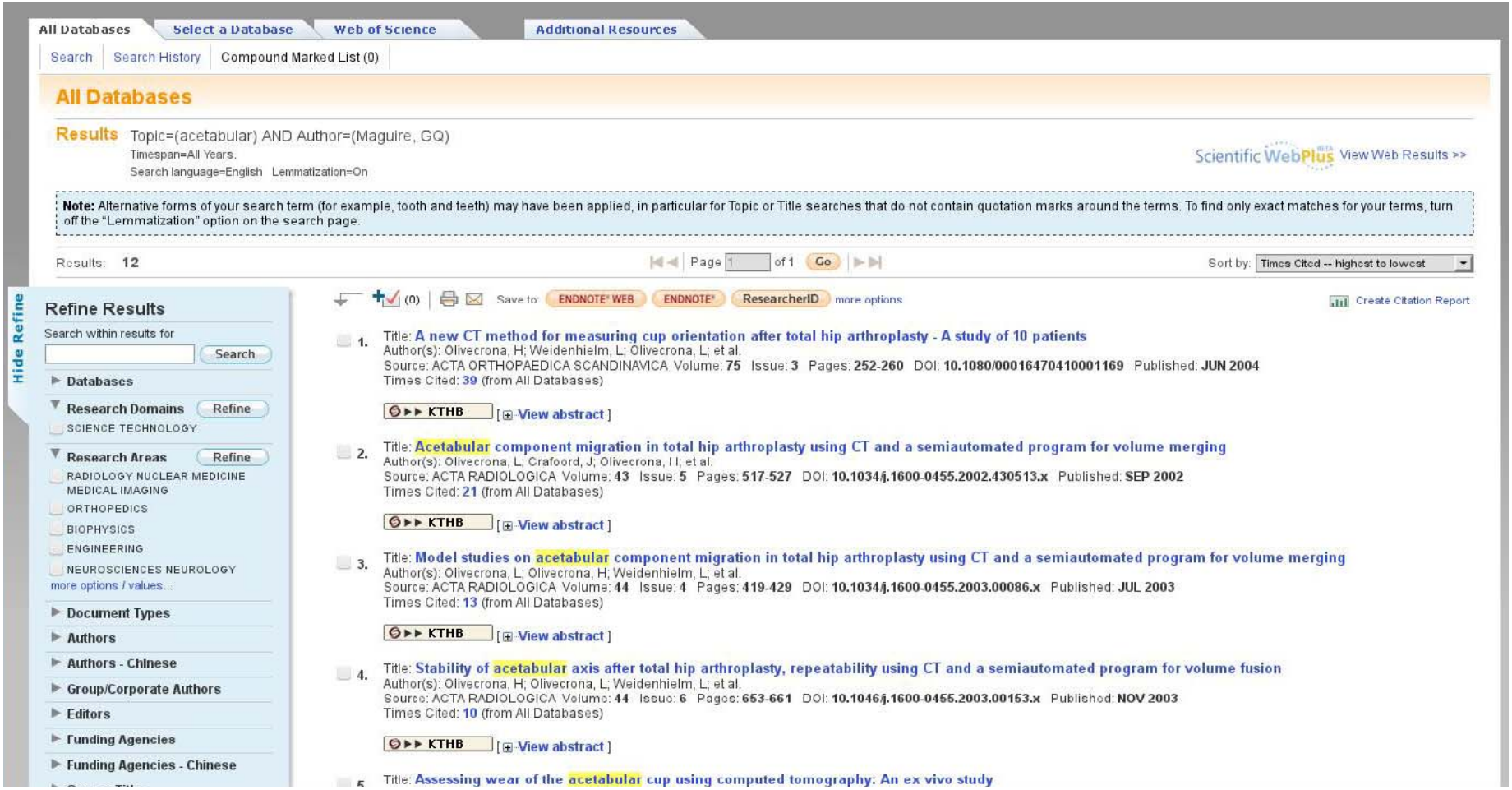

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Author(s): Olivecrona, H; Weidenhielm, L; Olivecrona, L; et al.
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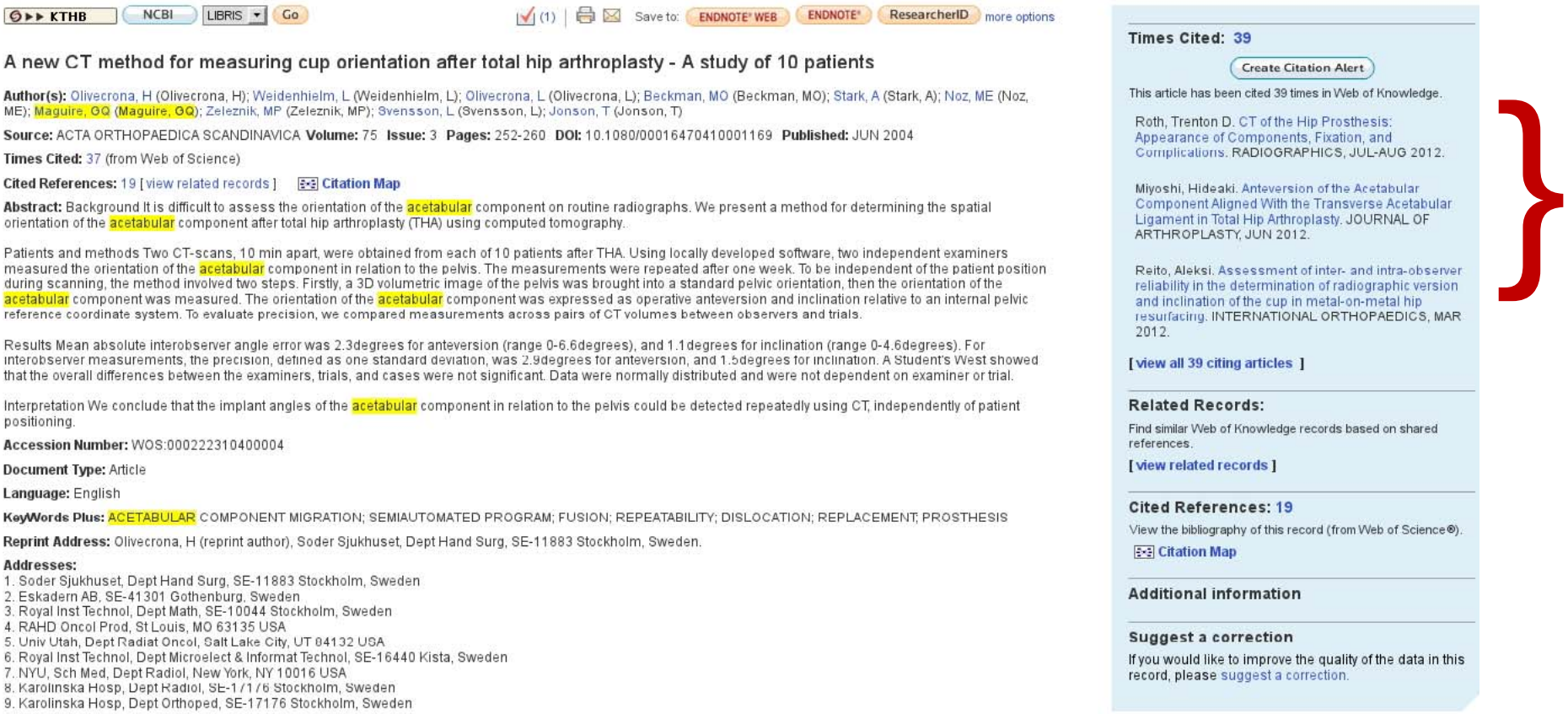

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A new CT method for measuring cup orientation after total hip arthroplasty - A study of 10 patients

Author(s): Olivecrona, H (Olivecrona, H); Weidenhielm, L (Weidenhielm, L); Olivecrona, L (Olivecrona, L); Beckman, MO (Beckman, MO); Stark, A (Stark, A); Noz, ME (Noz, ME); Maguire, GQ (Maguire, GQ); Zeleznik, MP (Zeleznik, MP); Svensson, L (Svensson, L); Jonson, T (Jonson, T)

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Abstract: Background It is difficult to assess the orientation of the acetabular component on routine radiographs. We present a method for determining the spatial orientation of the acetabular component after total hip arthroplasty (THA) using computed tomography.

Patients and methods Two CT-scans, 10 min apart, were obtained from each of 10 patients after THA. Using locally developed software, two independent examiners measured the orientation of the acetabular component in relation to the pelvis. The measurements were repeated after one week. To be independent of the patient position during scanning, the method involved two steps. Firstly, a 3D volumetric image of the pelvis was brought into a standard pelvic orientation, then the orientation of the acetabular component was measured. The orientation of the acetabular component was expressed as operative anteversion and inclination relative to an internal pelvic reference coordinate system. To evaluate precision, we compared measurements across pairs of CT volumes between observers and trials.

Results Mean absolute interobserver angle error was 2.3degrees for anteversion (range 0-6.6degrees), and 1.1degrees for inclination (range 0-4.6degrees). For interobserver measurements, the precision, defined as one standard deviation, was 2.9degrees for anteversion, and 1.5degrees for inclination. A Student's West showed that the overall differences between the examiners, trials, and cases were not significant. Data were normally distributed and were not dependent on examiner or trial.

Interpretation We conclude that the implant angles of the acetabular component in relation to the pelvis could be detected repeatedly using CT, independently of patient positioning.

Accession Number: WOS:000222310400004

Document Type: Article

Language: English

KeyWords Plus: ACETABULAR COMPONENT MIGRATION; SEMIAUTOMATED PROGRAM; FUSION; REPEATABILITY; DISLOCATION; REPLACEMENT; PROSTHESIS

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Reito, Aleksi. Assessment of inter- and intra-observer reliability in the determination of radiographic version and inclination of the cup in metal-on-metal hip resurfacing. INTERNATIONAL ORTHOPAEDICS, MAR 2012.

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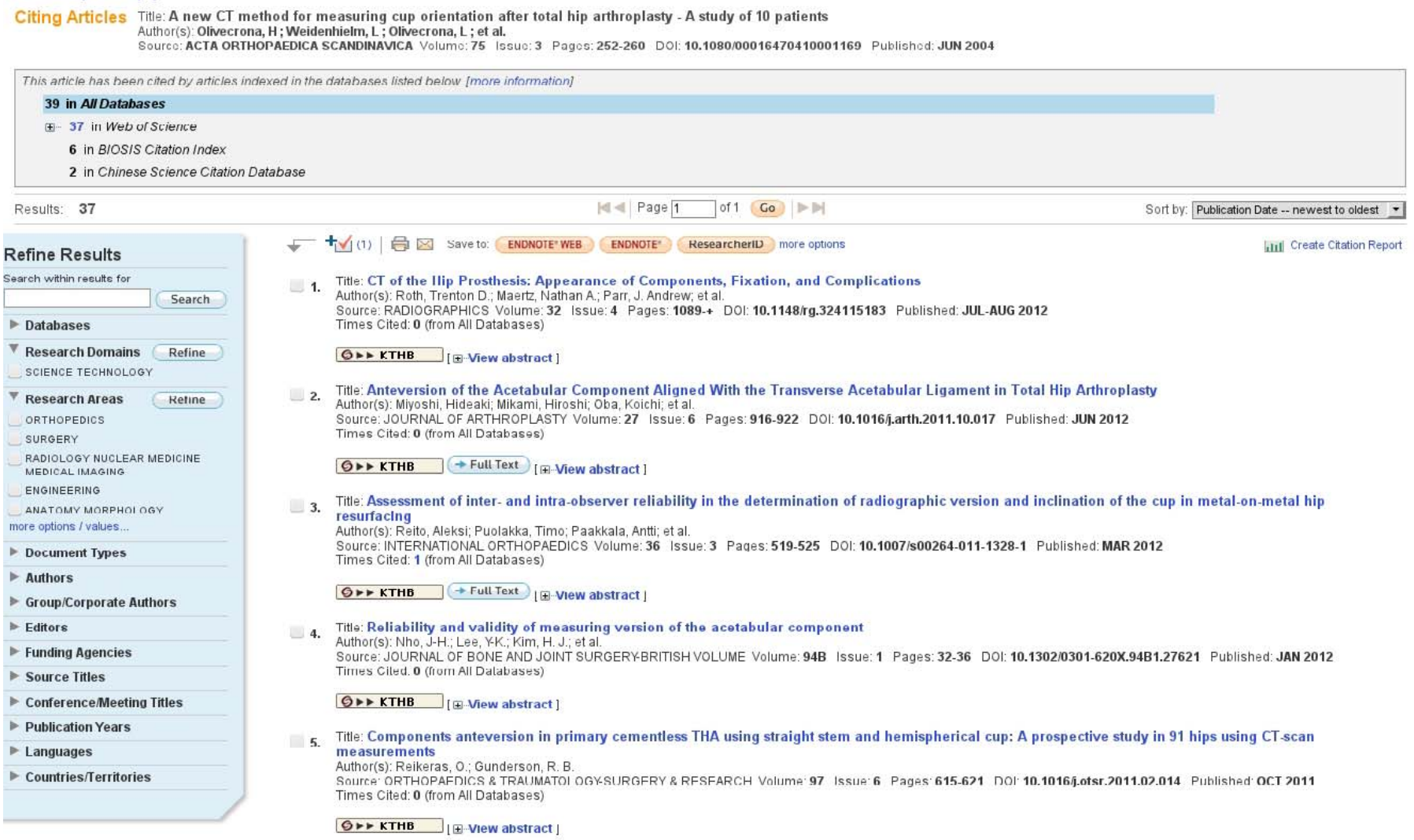

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2. Title: Anteversion of the Acetabular Component Aligned With the Transverse Acetabular Ligament in Total Hip Arthroplasty
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3. Title: Assessment of inter- and intra-observer reliability in the determination of radiographic version and inclination of the cup in metal-on-metal hip resurfacing
Author(s): Reito, Aleksi; Puolakka, Timo; Paakkala, Antti; et al.
Source: INTERNATIONAL ORTHOPAEDICS Volume: 36 Issue: 3 Pages: 519-525 DOI: 10.1007/s00264-011-1328-1 Published: MAR 2012
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4. Title: Reliability and validity of measuring version of the acetabular component
Author(s): Nho, J-H.; Lee, Y-K.; Kim, H. J.; et al.
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5. Title: Components anteversion in primary cementless THA using straight stem and hemispherical cup: A prospective study in 91 hips using CT-scan measurements
Author(s): Reikeras, O.; Gunderson, R. B.
Source: ORTHOPAEDICS & TRAUMATOLOGY-SURGERY & RESEARCH Volume: 97 Issue: 6 Pages: 615-621 DOI: 10.1016/j.otsr.2011.02.014 Published: OCT 2011
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5. Title: **Assessing wear of the acetabular cup using computed tomography: An ex vivo study**
Author(s): Olivecrona, L; Jedenmalm, A; Aspelin, P; et al.
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6. Title: **A new technique for diagnosis of acetabular cup loosening using computed tomography - Preliminary experience in 10 patients**
Author(s): Olivecrona, Henrik; Olivecrona, Lotta; Weidenhielm, Lars; et al.
Source: ACTA ORTHOPAEDICA Volume: **79** Issue: **3** Pages: **346-353** DOI: **10.1080/17453670710015247** Published: **2008**
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7. Title: **Fusion of radio stereometric analysis data into computed tomography space: Application to the elbow joint**
Author(s): Ericson, A.; Arndt, A.; Stark, A.; et al.
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Author(s): Olivecrona, L; Aspelin, P; Weidenhielm, L; et al.
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9. Title: **Three-dimensional movements of the lumbar spine facet joints and segmental movements: in vivo examinations of normal subjects with a new non-invasive method**
Author(s): Svedmark, P.; Tullberg, T.; Noz, M. E.; et al.
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11. Title: **Validation of a 3D CT method for measurement of linear wear of acetabular cups**
Author(s): Jedenmalm, Anneli; Nilsson, Fritjof; Noz, Marilyn E.; et al.
Source: ACTA ORTHOPAEDICA Volume: **82** Issue: **1** Pages: **35-41** DOI: **10.3109/17453674.2011.552777** Published: **FEB 2011**
Times Cited: **0** (from All Databases)

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12. Title: **Computed tomography analysis of radiostereometric data to determine flexion axes after total joint replacement: Application to the elbow joint**
Author(s): Ericson, A.; Olivecrona, H.; Stark, A.; et al.
Source: JOURNAL OF BIOMECHANICS Volume: **43** Issue: **10** Pages: **1947-1952** DOI: **10.1016/j.jbiomech.2010.03.016** Published: **JUL 20 2010**
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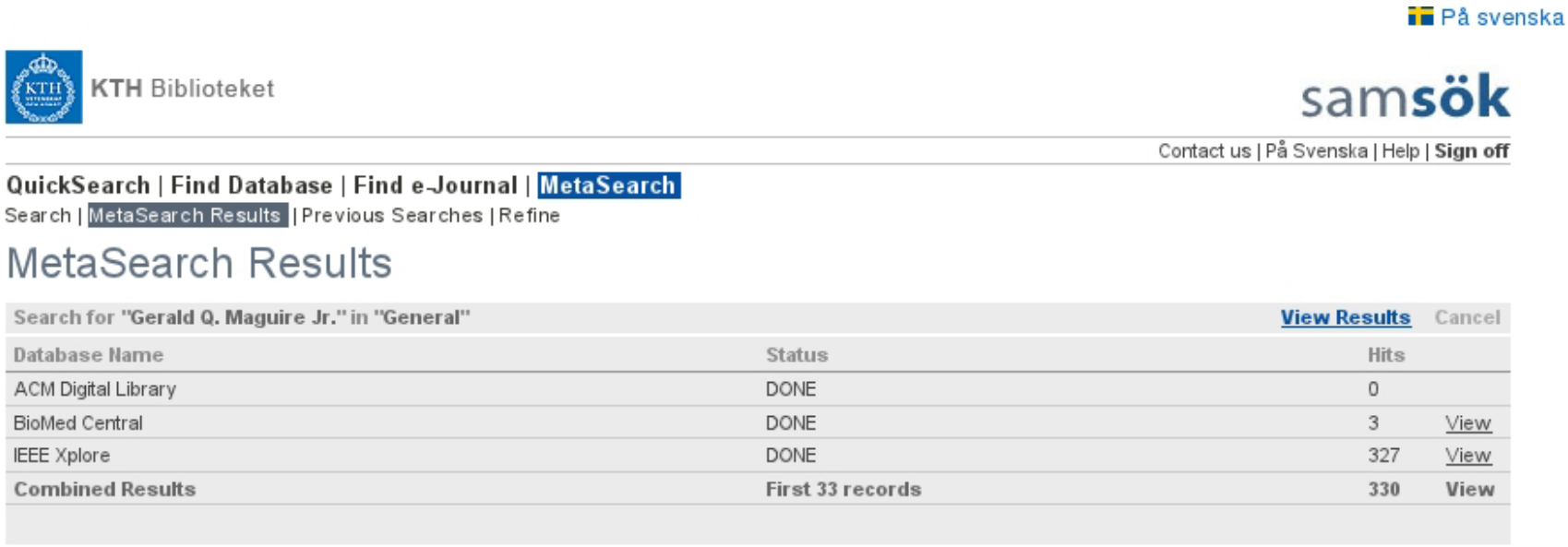

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1		Kimiaei, S.	Evaluation of polynomial image deformation for matching of 3D-abdominal MR-images using anatomical landmarks and for atlas construction The aim of this study is to compare and evaluate the potential usability of linear and non-linear (polynomial) 3D-warping for ...	1998	IEEE Xplore	
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3		Rusinek, H.	Quantitative and qualitative comparison of volumetric and surface rendering techniques The fidelity of visualizing craniofacial features using two modern three-dimensional (3-D) imaging algorithms-one employing surface ...	1991	IEEE Xplore	
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6		Smith, J.M.	Transparent concurrent execution of mutually exclusive alternatives The task of concurrently computing alternative solutions to a problem where only one of the solutions is needed is examined. ...	1989	IEEE Xplore	
7		Maguire, G.Q., Jr.	Graphics applied to medical image registration Software that has been developed to automate and standardize comparison of 3D images is discussed. The major approaches to image ...	1991	IEEE Xplore	
8		Noz, M.E.	Can the specificity of MRI breast imaging be improved by fusing 3D MRI volume data sets with FDG PET? MRI of the breast is an important tool for early detection of breast cancer in women at increased risk for tumor. MRI has a proven ...	2004	IEEE Xplore	
9		Jonsson, U.	MIPMANET-mobile IP for mobile ad hoc networks Mobile ad hoc networking allows nodes to form temporary networks and communicate beyond the transmitter range by supporting multihop ...	2000	IEEE Xplore	
10		Liu, G.Y.	A predictive mobility management algorithm for wireless mobile computing and communications This paper describes a novel predictive mobility	1995	IEEE Xplore	

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Resource:	IEEE Xplore
Title:	MIPMANET-mobile IP for mobile ad hoc networks
Author:	Jonsson, U.
Add.Author / Editor:	Alriksson, F. Larsson, T. Johansson, P. **Maguire, G.Q., Jr.**
Citation:	Mobile and Ad Hoc Networking and Computing, 2000. MobiHOC. 2000 First Annual Workshop on
Year:	2000
Abstract:	Mobile ad hoc networking allows nodes to form temporary networks and communicate beyond the transmitter range by supporting multihop communication through IP routing. Routing in such networks is often reactive, i.e., performed on-demand, as opposed to Internet routing that is proactive. As ad hoc networks are formed on a temporary basis, any IP address should be allowed to appear in an ad hoc network. This paper presents MIPMANET, a solution for connecting an ad hoc network, in which on-demand routing is used, to the Internet. MIPMANET provides Internet access by using mobile IP with foreign agent care-of addresses and reverse tunneling. This allows nodes to enjoy the mobility services of mobile IP while at the same time the requirements on the ad hoc routing protocol are kept to a minimum. Simulations of MIPMANET have been performed in the Network Simulator 2. The ad hoc on-demand distance vector (AODV) routing protocol has been used for routing within the ad hoc network. These simulations show that the ability to choose the closest access point to the Internet is worth extra work, as less traffic is generated in the network resulting in lower delays and fewer dropped packets
ISBN:	0-7803-6534-8
IDNumber:	10.1109/MOBHOC.2000.869215
External:	http://ieeexplore.ieee.org.focus.lib.kth.se/xpl/articleDetails.jsp?tp=&arnumber=869215&contentType=Conference+Publications

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Resource:	SpringerLink - Journals
Title:	Utilizing Social Context for Providing Personalized Services to Mobile Users
Author:	Athanasios Karapantelakis
Citation:	Lecture Notes in Computer Science Volume 6446/2010 Smart Sensing and Context
Year:	2010
Abstract:	We are currently witnessing a growing tendency for users to engage in social activities on the Internet. Consequently, social networks - tools that enable such activities - are increasingly used. This paper describes a system that uses information users share on these networks (personal context), to recommend Web feeds of related content to users. The system mines data from popular social networks and combines it with information from third party websites to create user profiles. Subsequently, these profiles are matched with appropriately tagged Web feeds and are displayed to users through a mobile device application. We evaluate the system with a 6-month test run involving real users. We measure the system's performance as well as user satisfaction and assessment of the accuracy of recommendations by including a feedback mechanism on the mobile application.
ISSN:	1611-3349
Imprint:	: Springer Berlin / Heidelberg
Language:	en
External:	http://www.springerlink.com.focus.lib.kth.se/content/r0n16828k5j05326/

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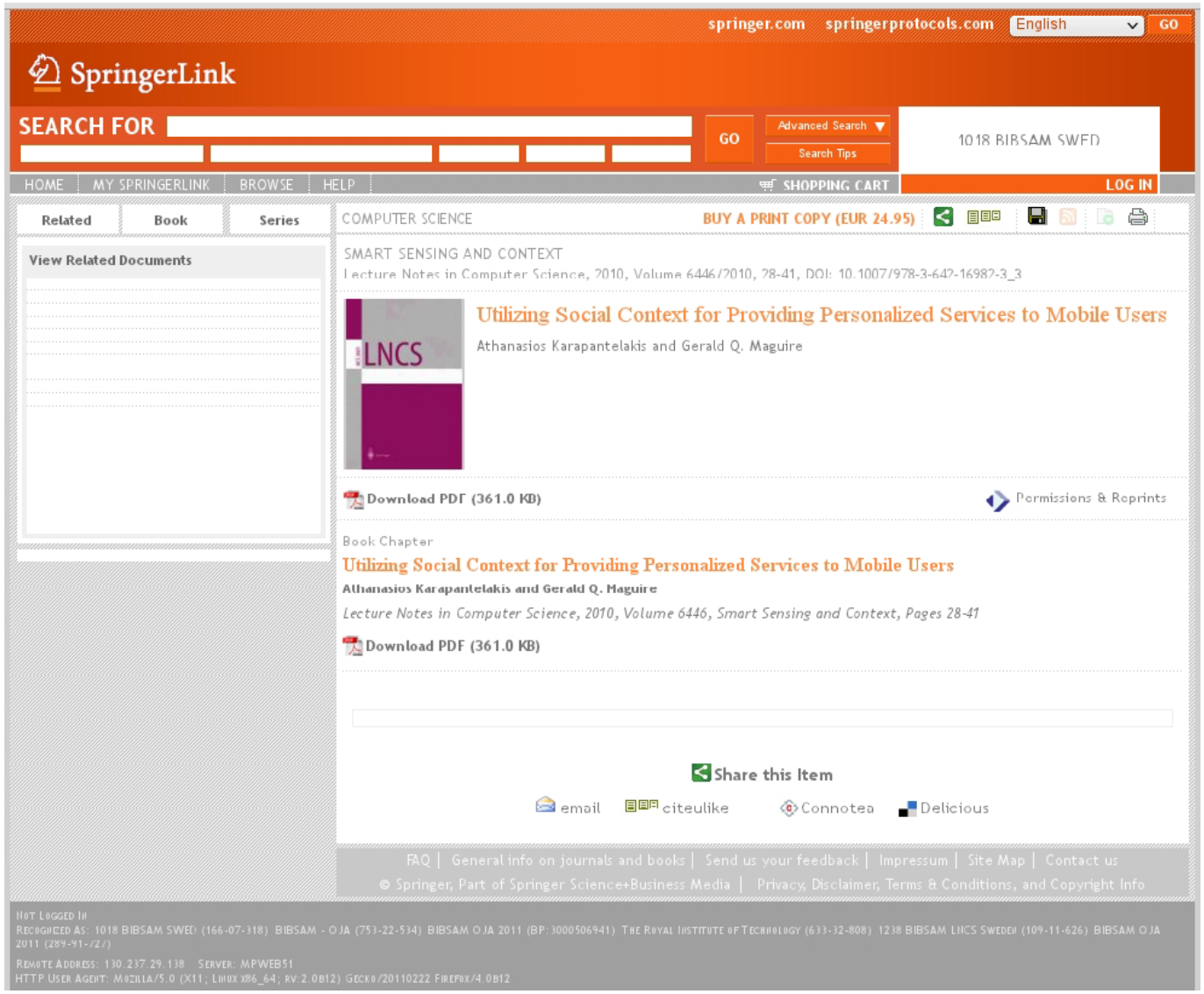

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Resource:	SpringerLink - Journals
Title:	A Mobility-Aware Dynamic Database Caching Scheme for Wireless Mobile Computing and Communications
Author:	George Liu
Citation:	Databases and Mobile Computing
Year:	2007
Abstract:	This paper describes a mobility-aware dynamic database caching scheme for wireless mobile computing and communications. A mobile-floating agent scheme is proposed, in which caching techniques are cognizant of the mobile nature of mobile users and the location-sensitive nature of mobile systems. The mobile-floating agent maintains a second class cache in the fixed network and employs Barbara's "invalidation reports broadcasting" cache consistency strategies to maintain a dynamic cache consistent with the first class cache in the mobile client. The "invalidation reports broadcasting" scheme is combined with knowledge of the mobility behavior of each individual mobile user and broadcasts of invalidation reports only occur within the user's mobility area. The evaluation results show that, for a large system (200 cells), this scheme can reduce the system cost by more than 87%, for even highly mobile users, compared with a fully replicated database system.
ISBN:	978-0-585-26636-7
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Language:	en
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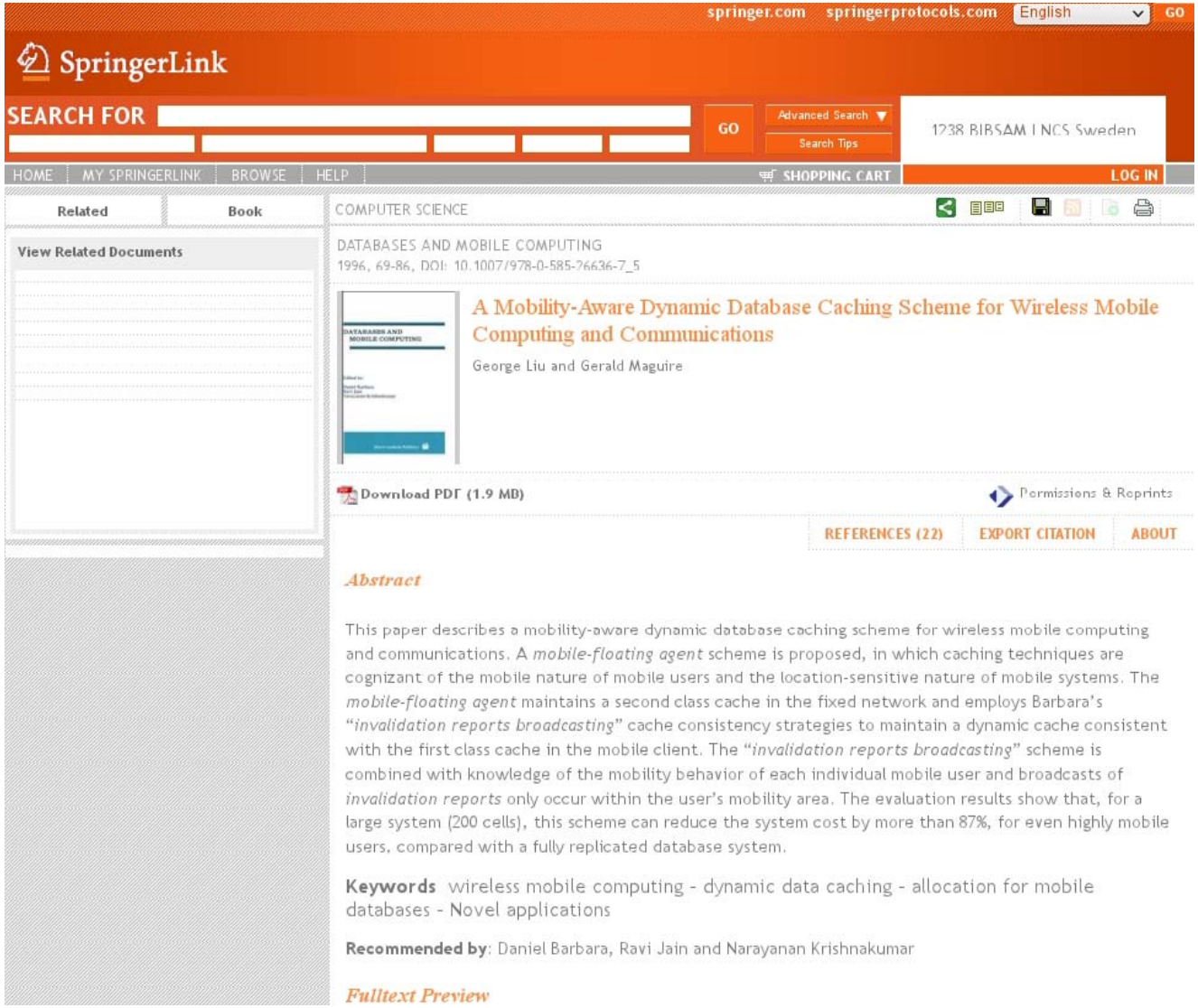

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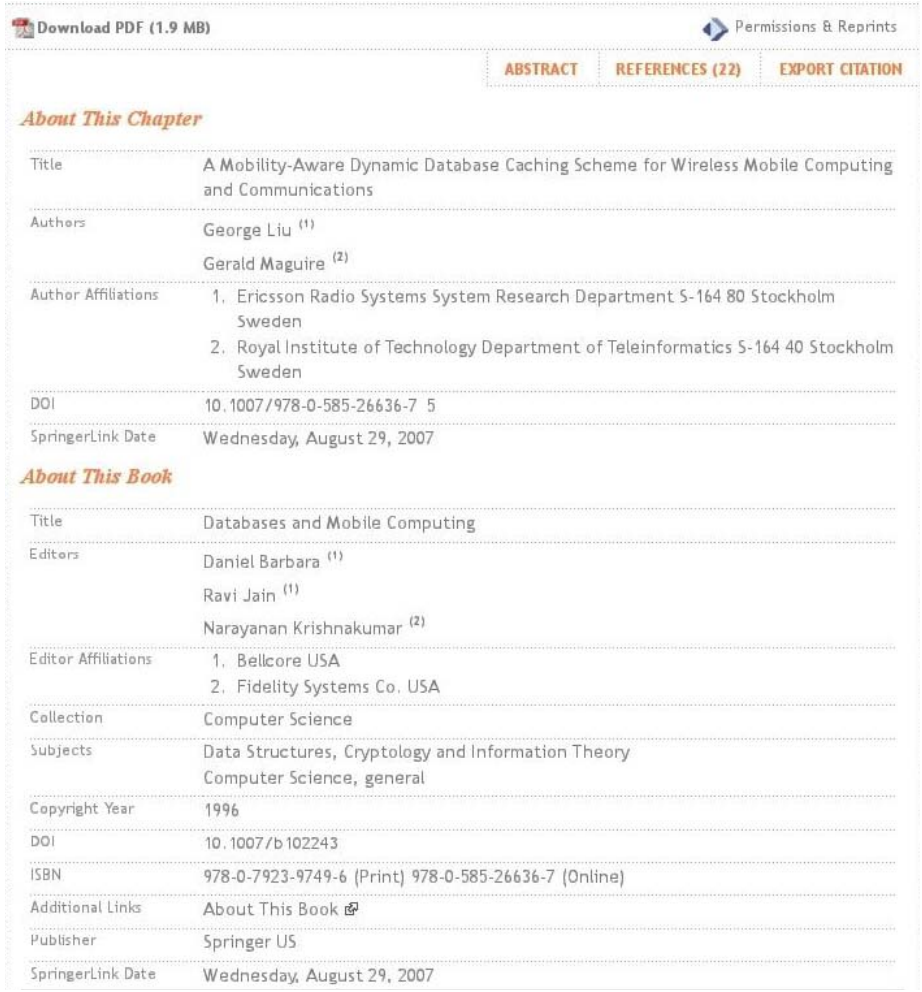

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ABSTRACT | REFERENCES (22) | EXPORT CITATION

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Title	A Mobility-Aware Dynamic Database Caching Scheme for Wireless Mobile Computing and Communications
Authors	George Liu [1] Gerald Maguire [2]
Author Affiliations	1. Ericsson Radio Systems System Research Department S-164 80 Stockholm Sweden 2. Royal Institute of Technology Department of Teleinformatics S-164 40 Stockholm Sweden
DOI	10.1007/978-0-585-26636-7_5
SpringerLink Date	Wednesday, August 29, 2007

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Editor Affiliations	1. Bellcore USA 2. Fidelity Systems Co. USA
Collection	Computer Science
Subjects	Data Structures, Cryptology and Information Theory Computer Science, general
Copyright Year	1996
DOI	10.1007/b102243
ISBN	978-0-7923-9749-6 (Print) 978-0-585-26636-7 (Online)
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Publisher	Springer US
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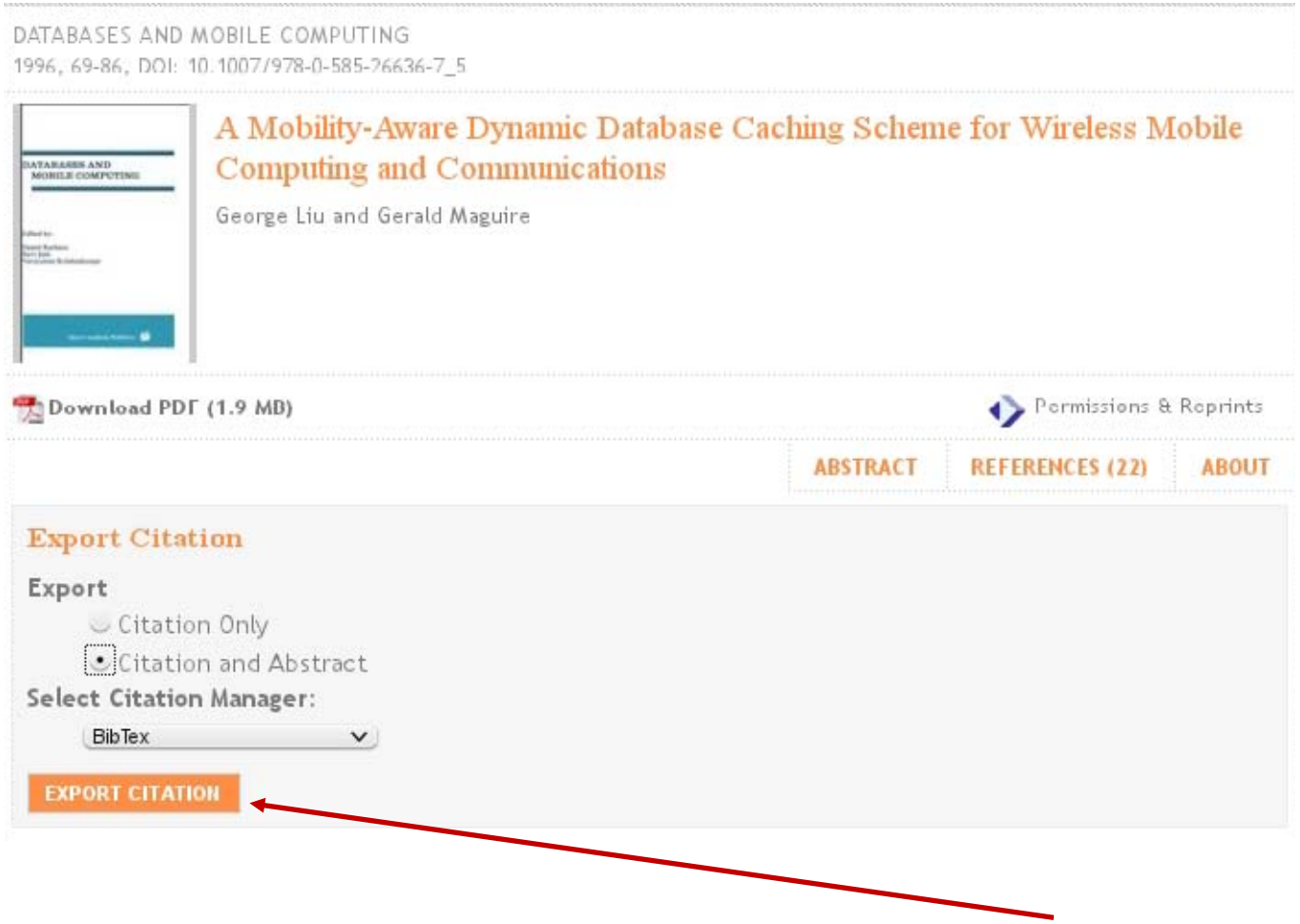

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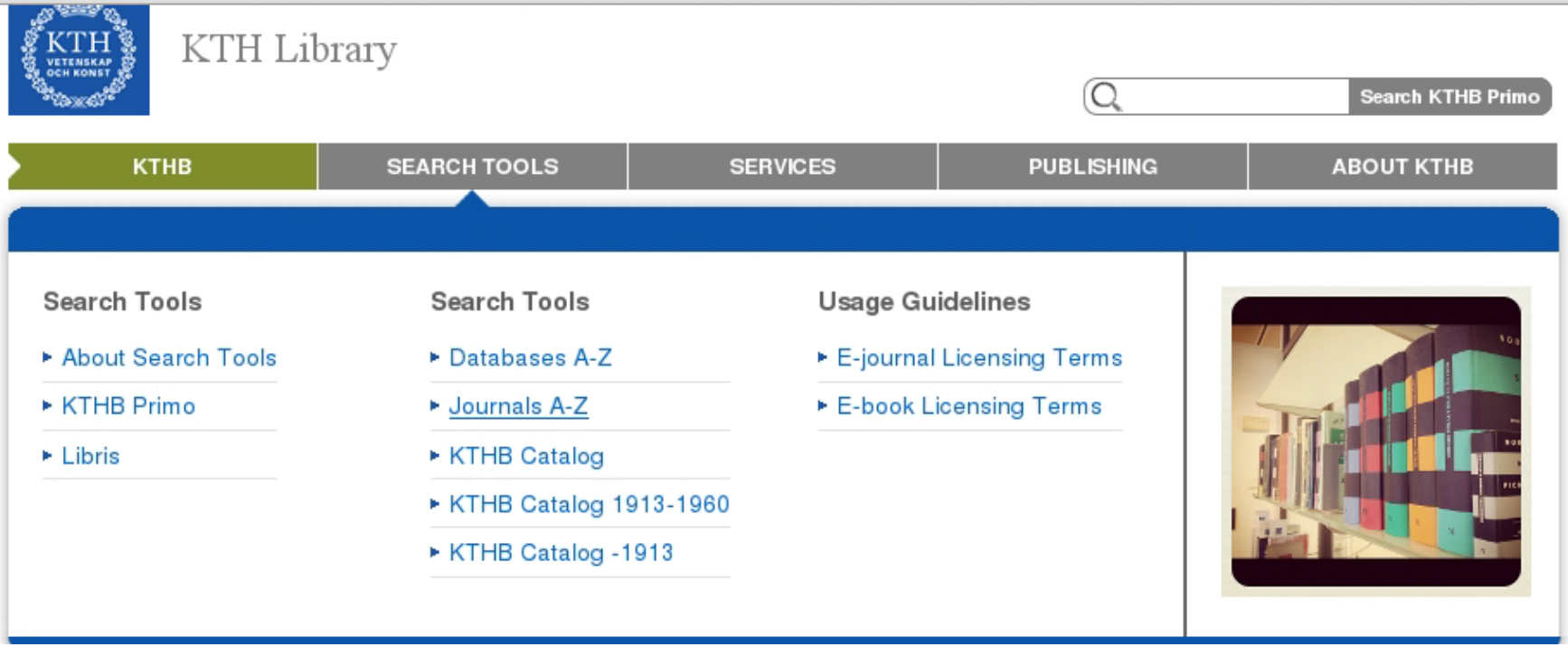

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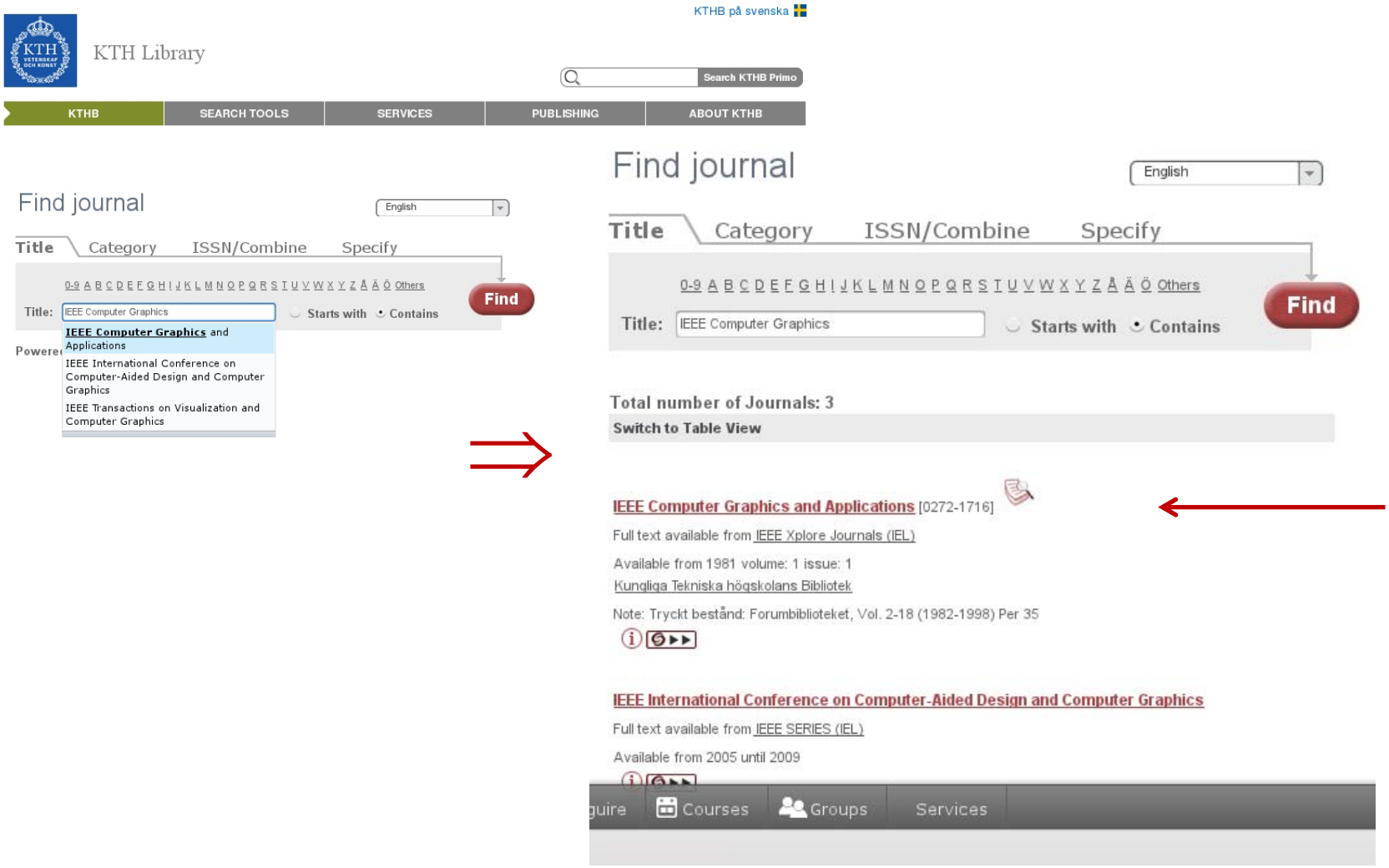

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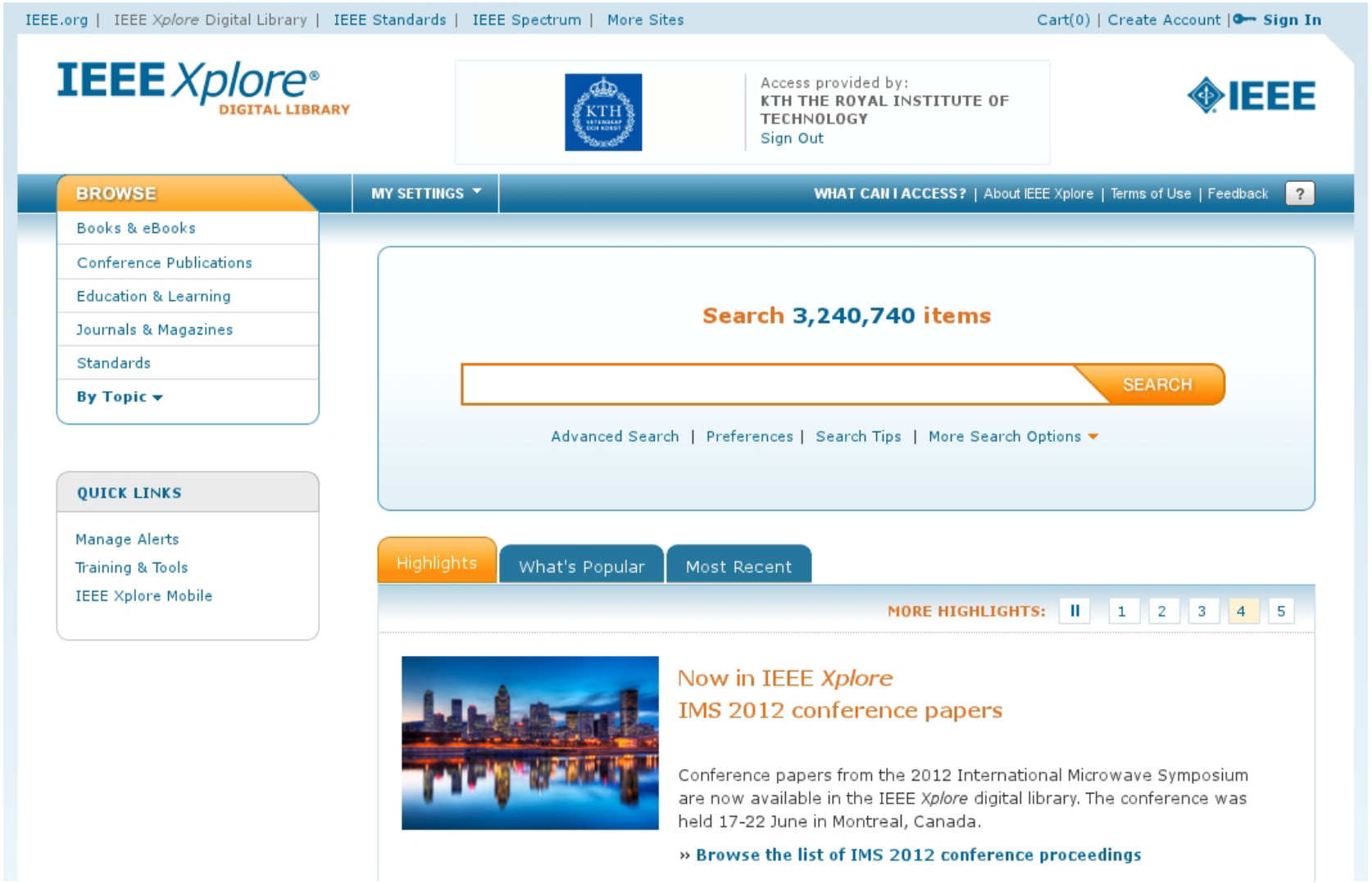

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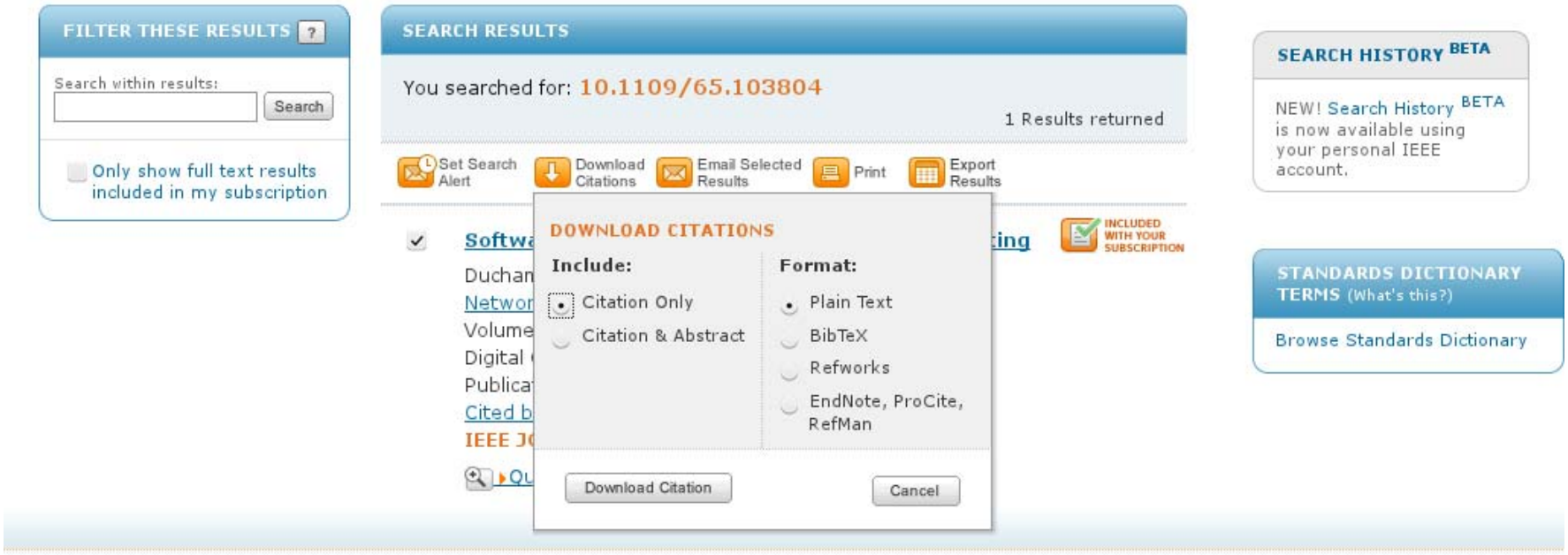

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@ARTICLE{103804,

author={Duchamp, D. and Feiner, S.K. and Maguire, G.Q., Jr.},

journal={Network, IEEE}, title={Software technology for wireless mobile computing},

year={1991}, month={nov. }, volume={5}, number={6}, pages={12 -18},

abstract={Some of the possibilities and requirements for mobile computing on wireless local area networks (LANs) are discussed from the systems software viewpoint. The design of the Student Electronic Notebook (SEN) is sketched to provide a partial catalog of problems in building a real system for wireless mobile computing. This project was initiated to investigate the potential of wireless mobile computing to reshape education. Some of the key directions for research in software technology for wireless, mobile computing are examined. Some of the authors' experience with wireless LANs is related.<>},

keywords={Student Electronic Notebook;education;software technology;systems software;wireless LAN;wireless local area networks;wireless mobile computing;educational computing;local area networks;mobile radio systems;systems software;},

doi={10.1109/65.103804},

ISSN={0890-8044},}

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Duchamp, D.; Feiner, S.K.; Maguire, G.Q., Jr.; , "Software technology for wireless mobile computing," Network, IEEE , vol.5, no.6, pp.12-18, Nov 1991

doi: 10.1109/65.103804

Abstract: Some of the possibilities and requirements for mobile computing on wireless local area networks (LANs) are discussed from the systems software viewpoint. The design of the Student Electronic Notebook (SEN) is sketched to provide a partial catalog of problems in building a real system for wireless mobile computing. This project was initiated to investigate the potential of wireless mobile computing to reshape education. Some of the key directions for research in software technology for wireless, mobile computing are examined. Some of the authors' experience with wireless LANs is related

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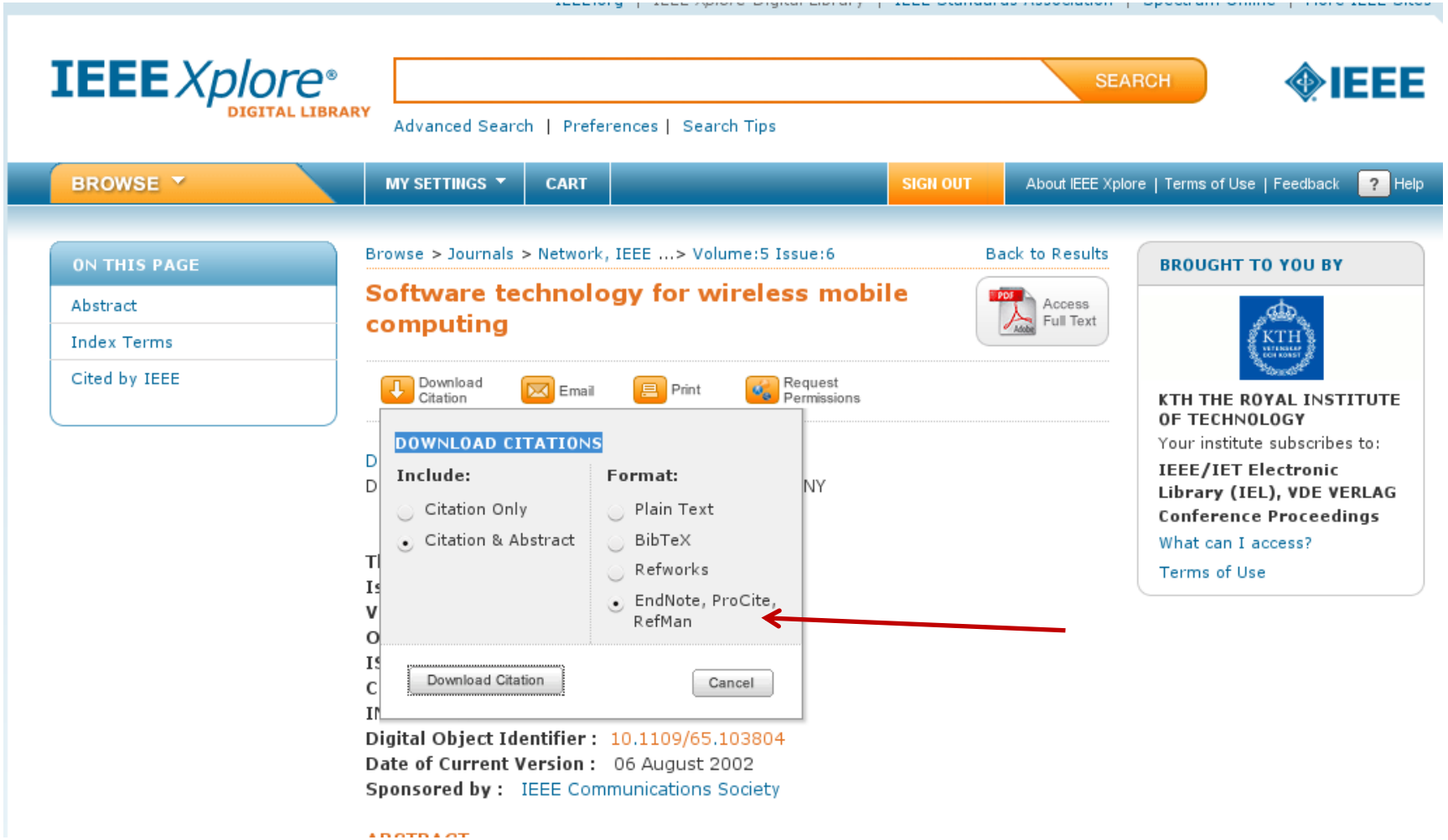

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TY - JOUR
JO - Network, IEEE
TI - Software technology for wireless mobile computing
T2 - Network, IEEE
IS - 6
SN - 0890-8044
VO - 5
SP - 12
EP - 18
AU - Duchamp, D.
AU - Feiner, S.K.
AU - Maguire, G.Q., Jr.
Y1 - Nov 1991
PY - 1991
KW - educational computing
…
KW - wireless LAN
KW - wireless local area networks
KW - wireless mobile computing
VL - 5
JA - Network, IEEE
DOI - 10.1109/65.103804
AB - Some of the possibilities and requirements for mobile computing on wireless local area networks (LANs) are discussed from the systems software viewpoint. The design of the Student Electronic Notebook (SEN)is sketched to provide a partial catalog of problems in building a real system for wireless mobile computing. This project was initiated to investigate the potential of wireless mobile computing to reshapeeducation. Some of the key directions for research in software technology for wireless, mobile computing are examined. Some of the authors' experience with wireless LANs is related
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@article{IETF:RFC1235, author="J. Ioannidis and G. Maguire",
title="{Coherent File Distribution Protocol}",
journal="Internet Request for Comments",
issn="{2070-1721}", volume="RFC 1235 (Experimental)",
publisher="{RFC Editor}", institution="{RFC Editor}", year=1991,
month=jun, url="http://www.rfc-editor.org/rfc/rfc1235.txt",
abstract="{This memo describes the Coherent File Distribution Protocol (CFDP). This is an Experimental Protocol for the Internet community. It does not specify an Internet standard.}", }

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- bibtex-Preamble
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BibTeX mode: bibtex-Article

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Required

Optional

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- TY - GEN
- ID - rfc1235
- L3 - citeulike-article-id:2777900
- TI - {Coherent File Distribution Protocol}
- SE - Request for Comments
- IS - 1235
- PB - IETF
- KW - internet
- KW - networking
- KW - rfc
- AU - Ioannidis, J
- AU - Maguire, G
- PY - 1991/June//
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One of the early protocols for multicast distribution of files was described in RFC 1235[1] by Ioannidis and Maguire. John Ioanndis went on to write several other RFCs[2-4].

References

[1] J. Ioannidis and G. Maguire, “Coherent File Distribution Protocol,” *Internet Request for Comments*, vol. 1235, Jun. 1991.

[2] M. Blaze, J. Ioannidis, and A. Keromytis, “DSA and RSA Key and Signature Encoding for the KeyNote Trust Management System,” *Internet Request for Comments*, vol. 2792, Mar. 2000.

[3] S. Bellovin, J. Ioannidis, A. Keromytis, and R. Stewart, “On the Use of Stream Control Transmission Protocol (SCTP) with IPsec,” *Internet Request for Comments*, vol. 3554, Jul. 2003.

[4] M. Blaze, J. Feigenbaum, J. Ioannidis, and A. Keromytis, “The KeyNote Trust-Management System Version 2,” *Internet Request for Comments*, vol. 2704, Sep. 1999.

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One of the early protocols for multicast distribution of files was described in RFC 1235(1) by Ioannidis and Maguire. John Ioanndis went on to write several other RFCs(2-4).

References

1. Ioannidis J, Maguire G. Coherent File Distribution Protocol. Internet Request for Comments [Internet]. 1991 Jun;RFC 1235 (Experimental). Available from: http://www.rfc-editor.org/rfc/rfc1235.txt
2. Blaze M, Ioannidis J, Keromytis A. DSA and RSA Key and Signature Encoding for the KeyNote Trust Management System. Internet Request for Comments [Internet]. 2000 Mar;RFC 2792 (Informational). Available from: http://www.rfc-editor.org/rfc/rfc2792.txt
3. Bellovin S, Ioannidis J, Keromytis A, Stewart R. On the Use of Stream Control Transmission Protocol (SCTP) with IPsec. Internet Request for Comments [Internet]. 2003 Jul;RFC 3554 (Proposed Standard). Available from: http://www.rfc-editor.org/rfc/rfc3554.txt
4. Blaze M, Feigenbaum J, Ioannidis J, Keromytis A. The KeyNote Trust-Management System Version 2. Internet Request for Comments [Internet]. 1999 Sep;RFC 2704 (Informational). Available from: http://www.rfc-editor.org/rfc/rfc2704.txt

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One of the early protocols for multicast distribution of files was described in RFC 1235(Ioannidis and Maguire) by Ioannidis and Maguire. John Ioanndis went on to write several other RFCs(Blaze, Ioannidis, and Keromytis; Bellovin et al.; Blaze et al.).

References

Bellovin, S. et al. “On the Use of Stream Control Transmission Protocol (SCTP) with IPsec.” *Internet Request for Comments* RFC 3554 (Proposed Standard) (2003) : n. pag.

Blaze, M. et al. “The KeyNote Trust-Management System Version 2.” *Internet Request for Comments* RFC 2704 (Informational) (1999) : n. pag.

Blaze, M., J. Ioannidis, and A. Keromytis. “DSA and RSA Key and Signature Encoding for the KeyNote Trust Management System.” *Internet Request for Comments* RFC 2792 (Informational) (2000) : n. pag.

Ioannidis, J., and G. Maguire. “Coherent File Distribution Protocol.” *Internet Request for Comments* RFC 1235 (Experimental) (1991) : n. pag.

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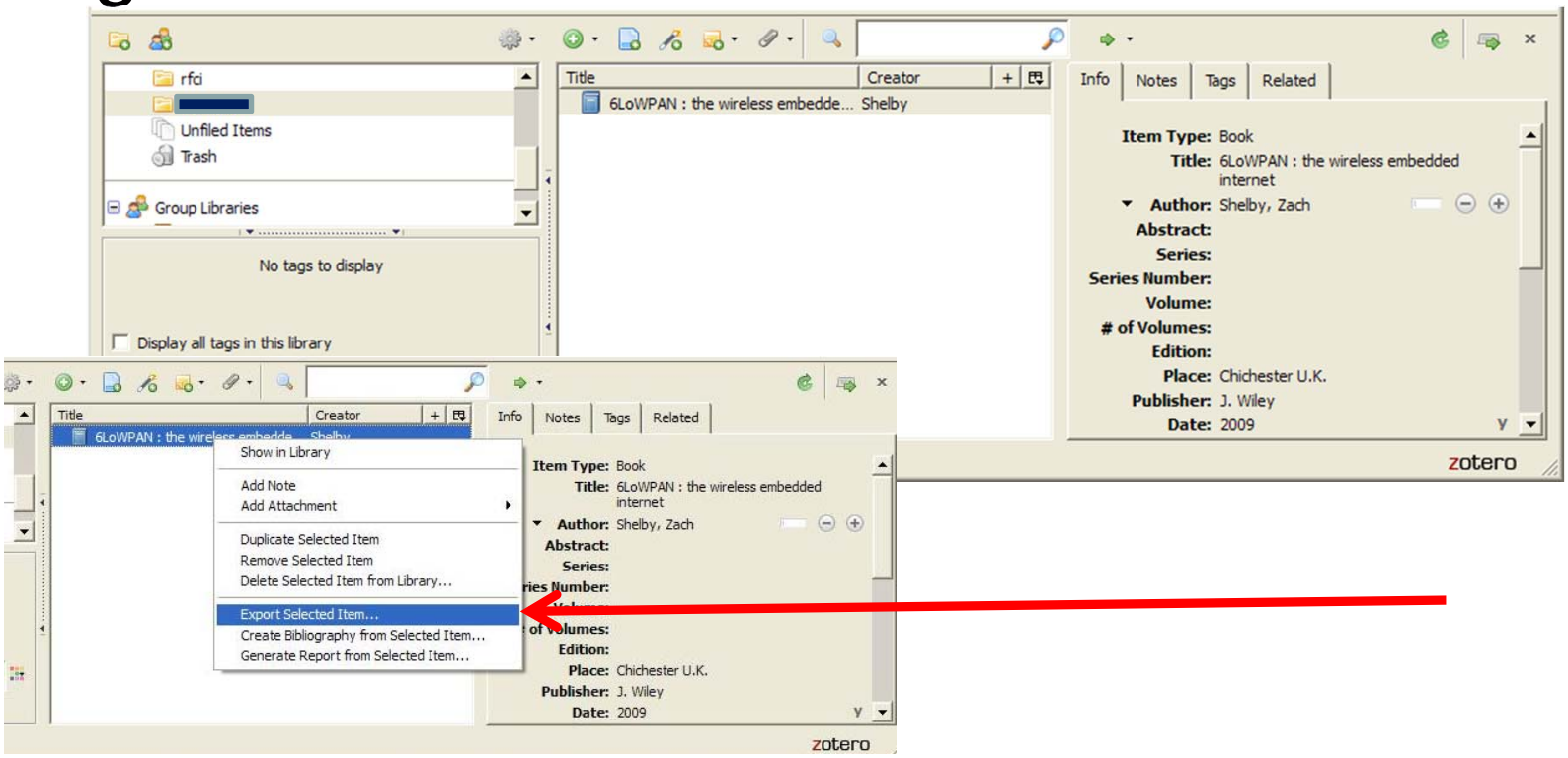

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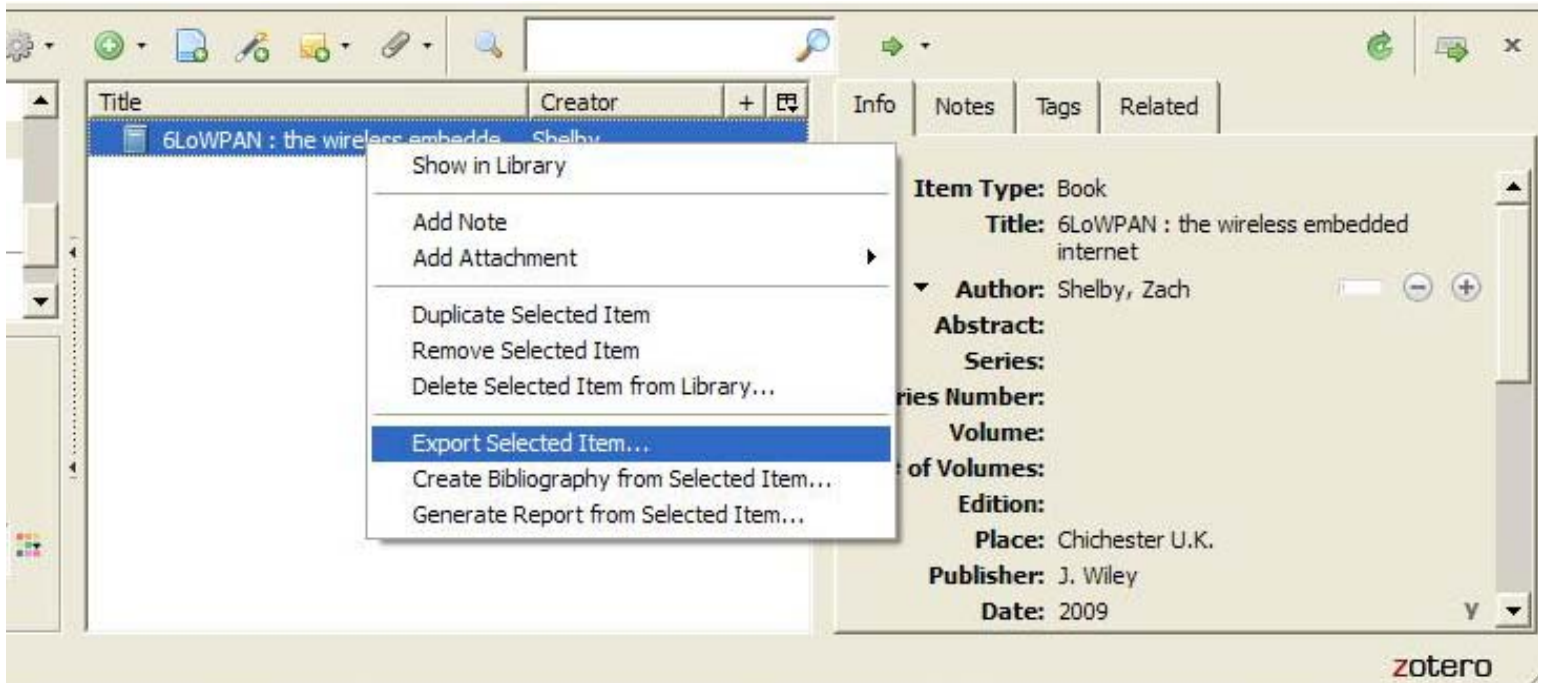

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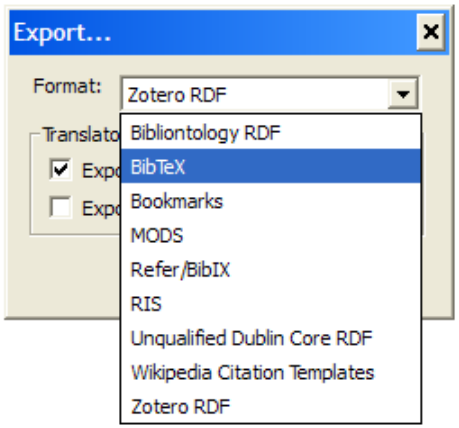

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year = {2009}}
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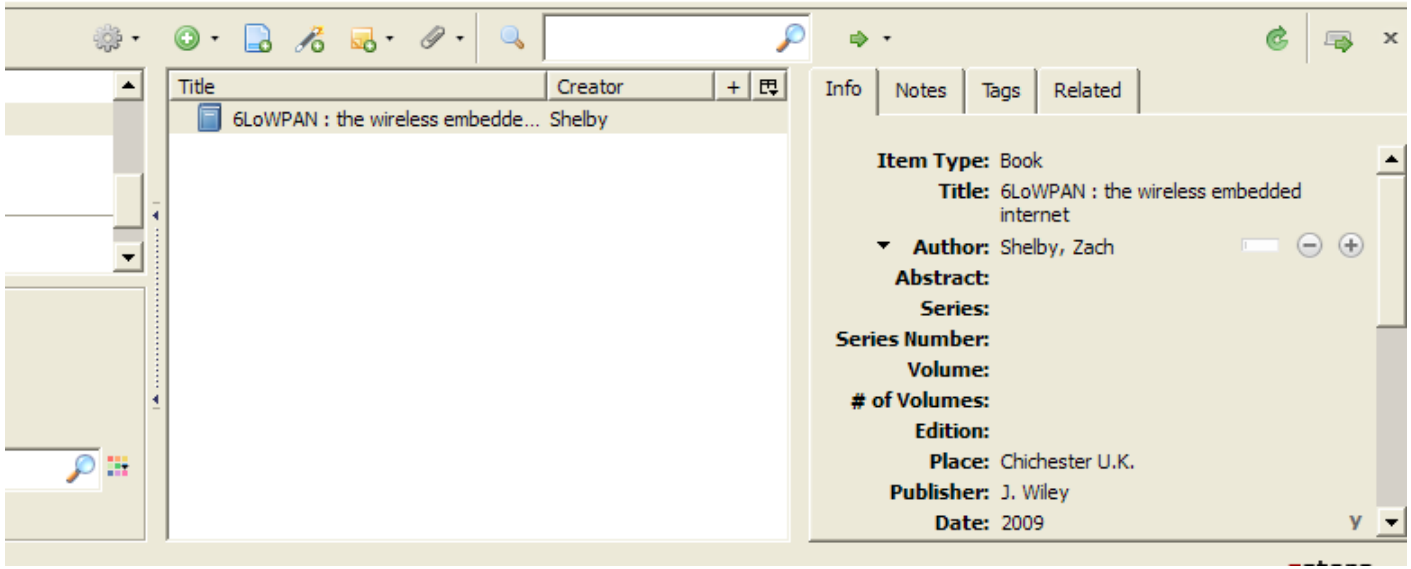

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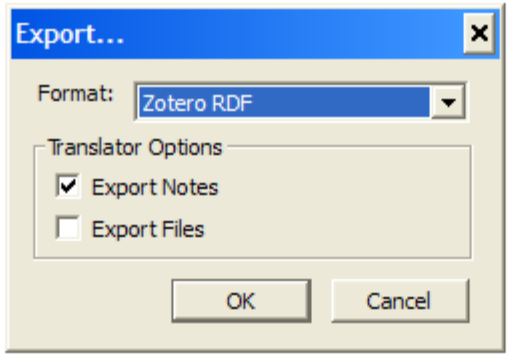

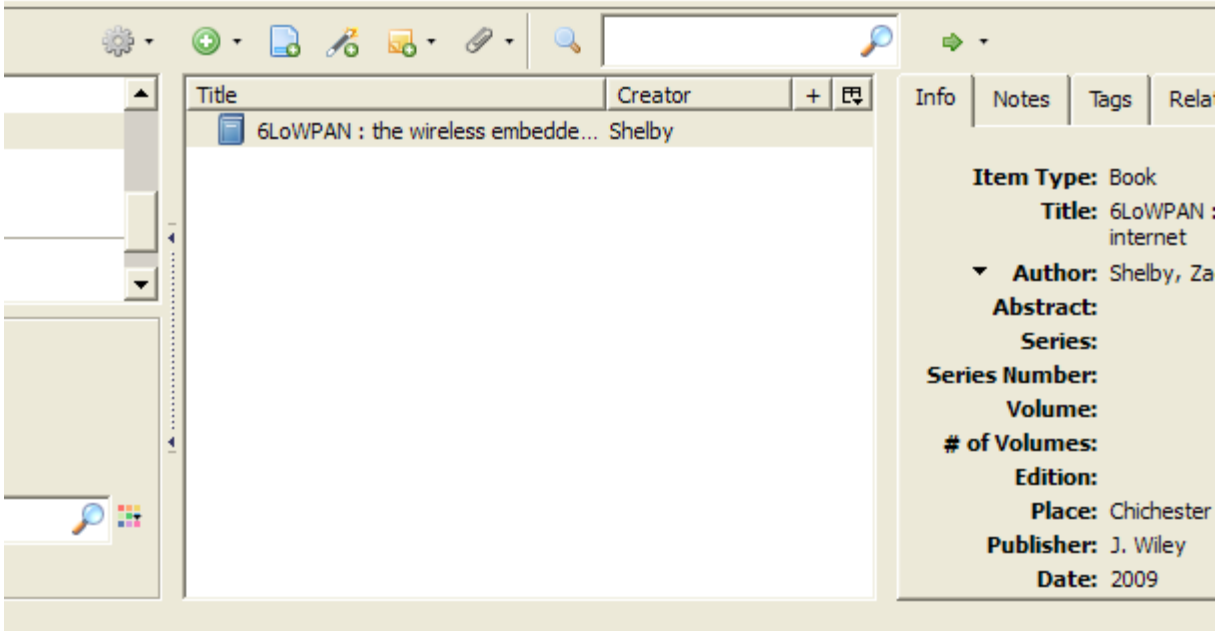

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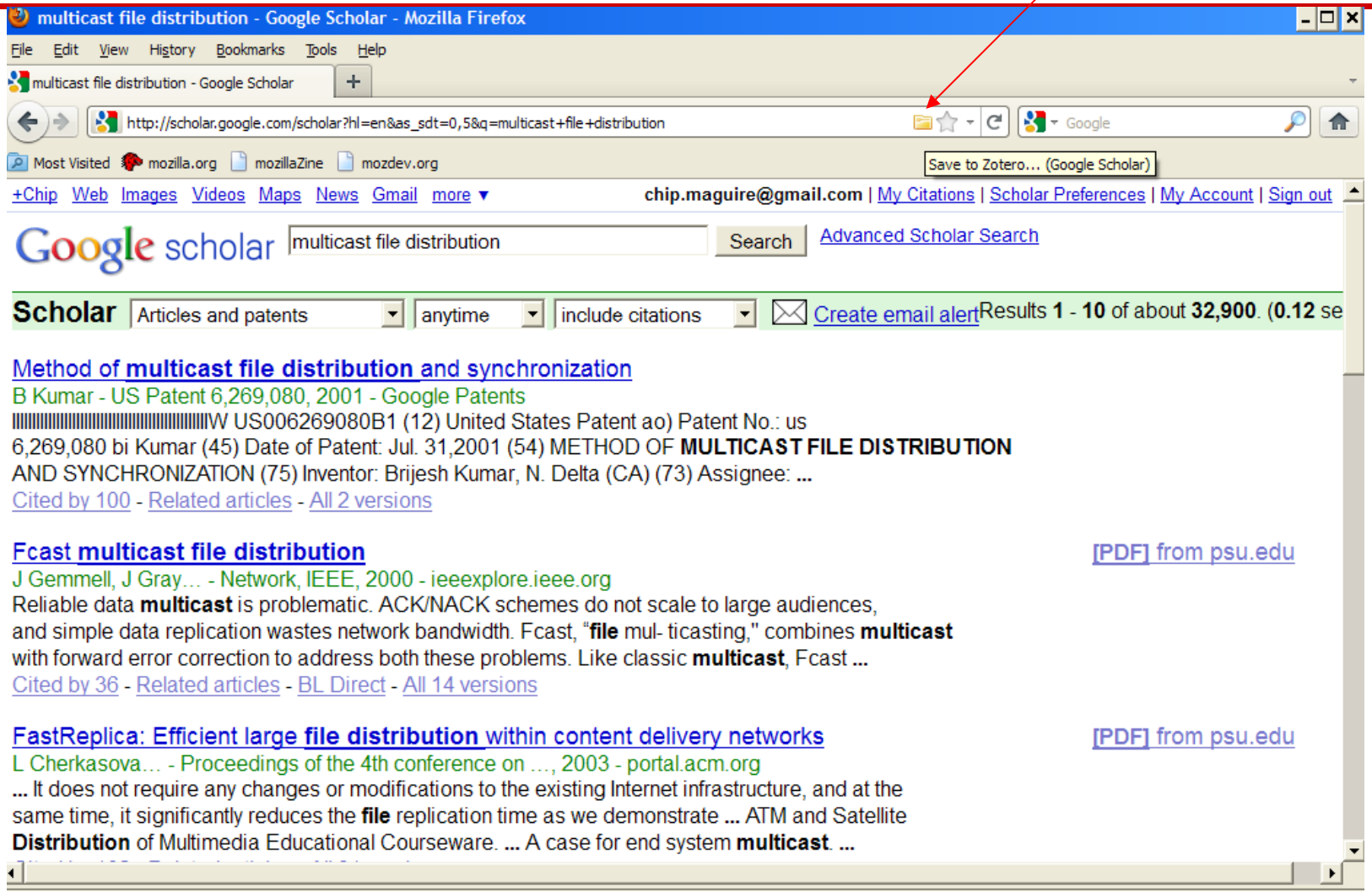

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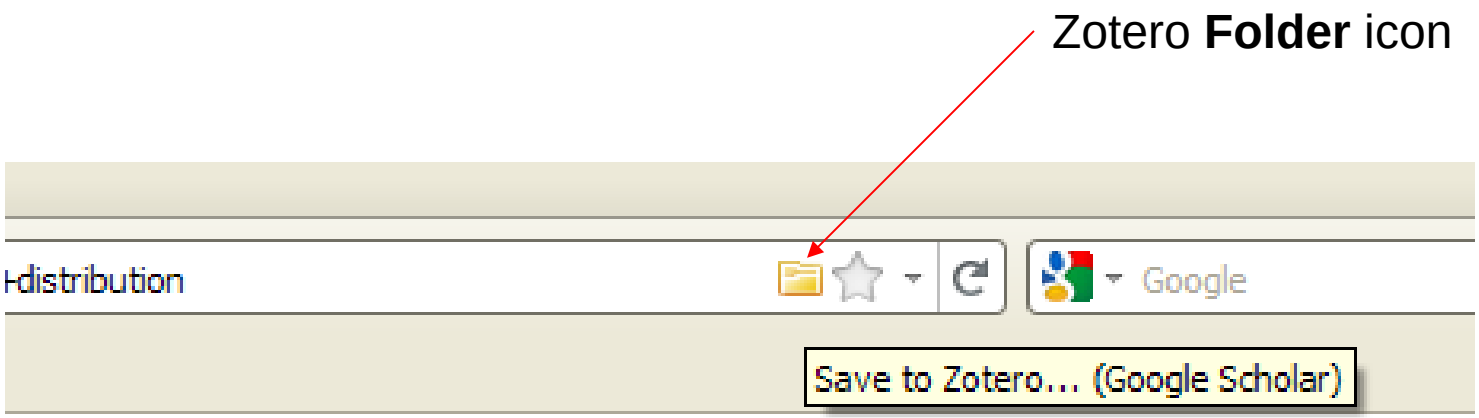

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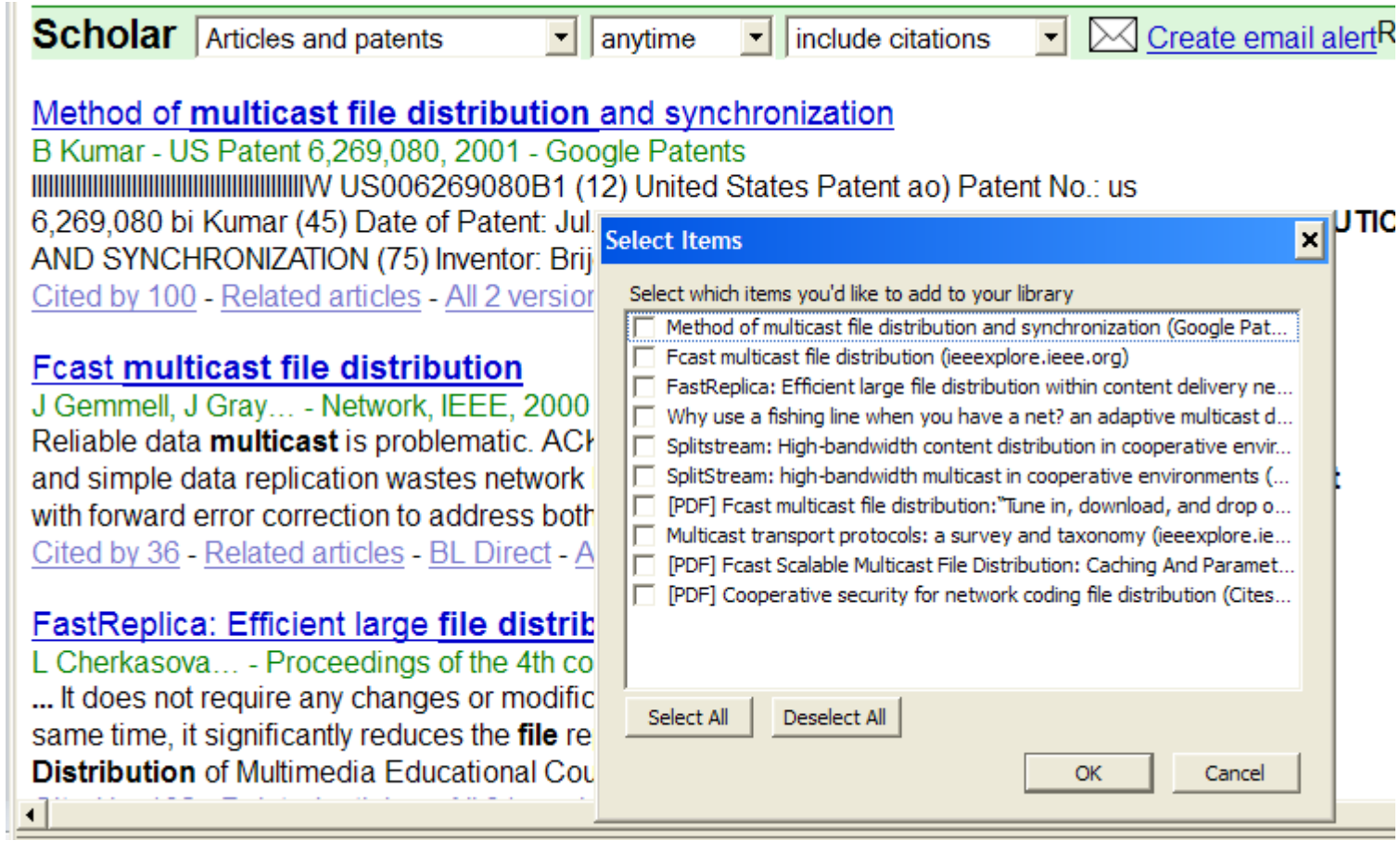

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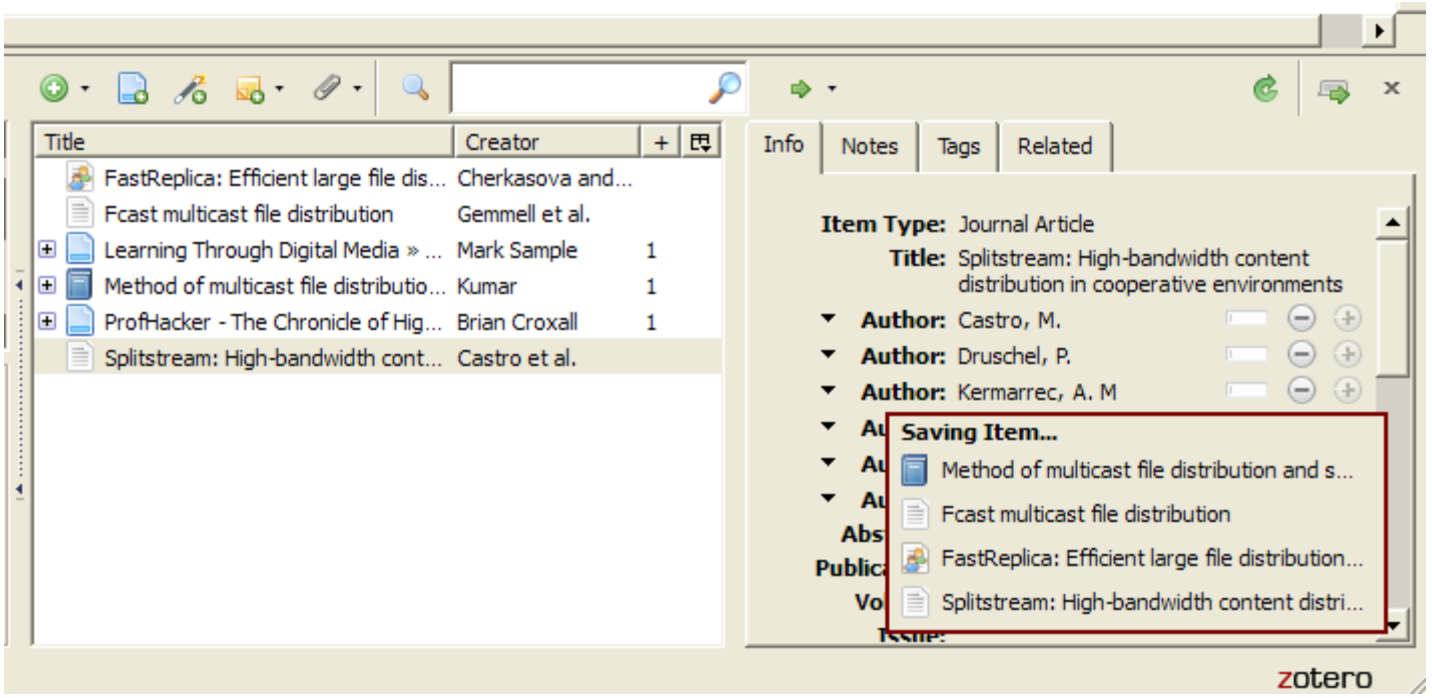

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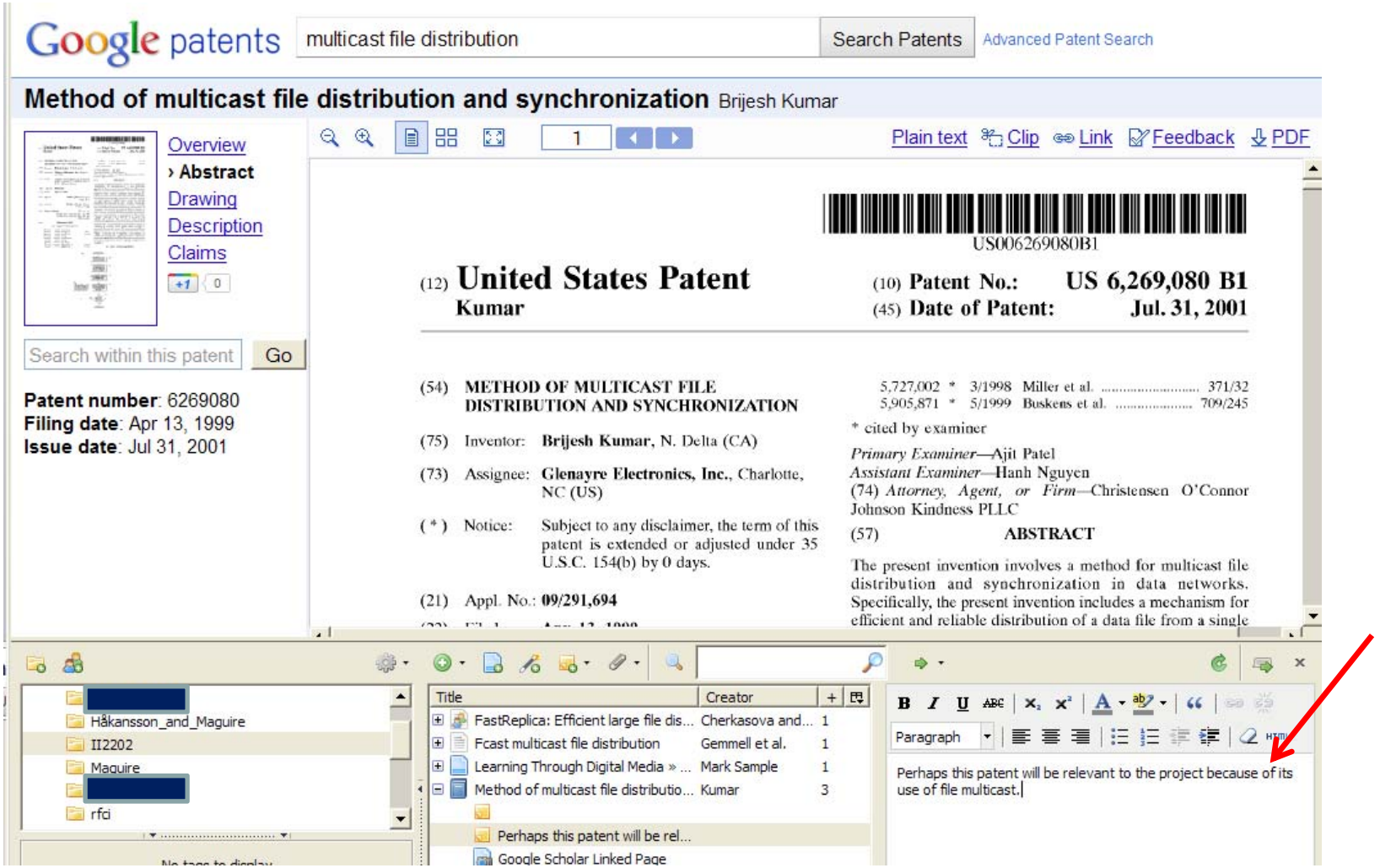

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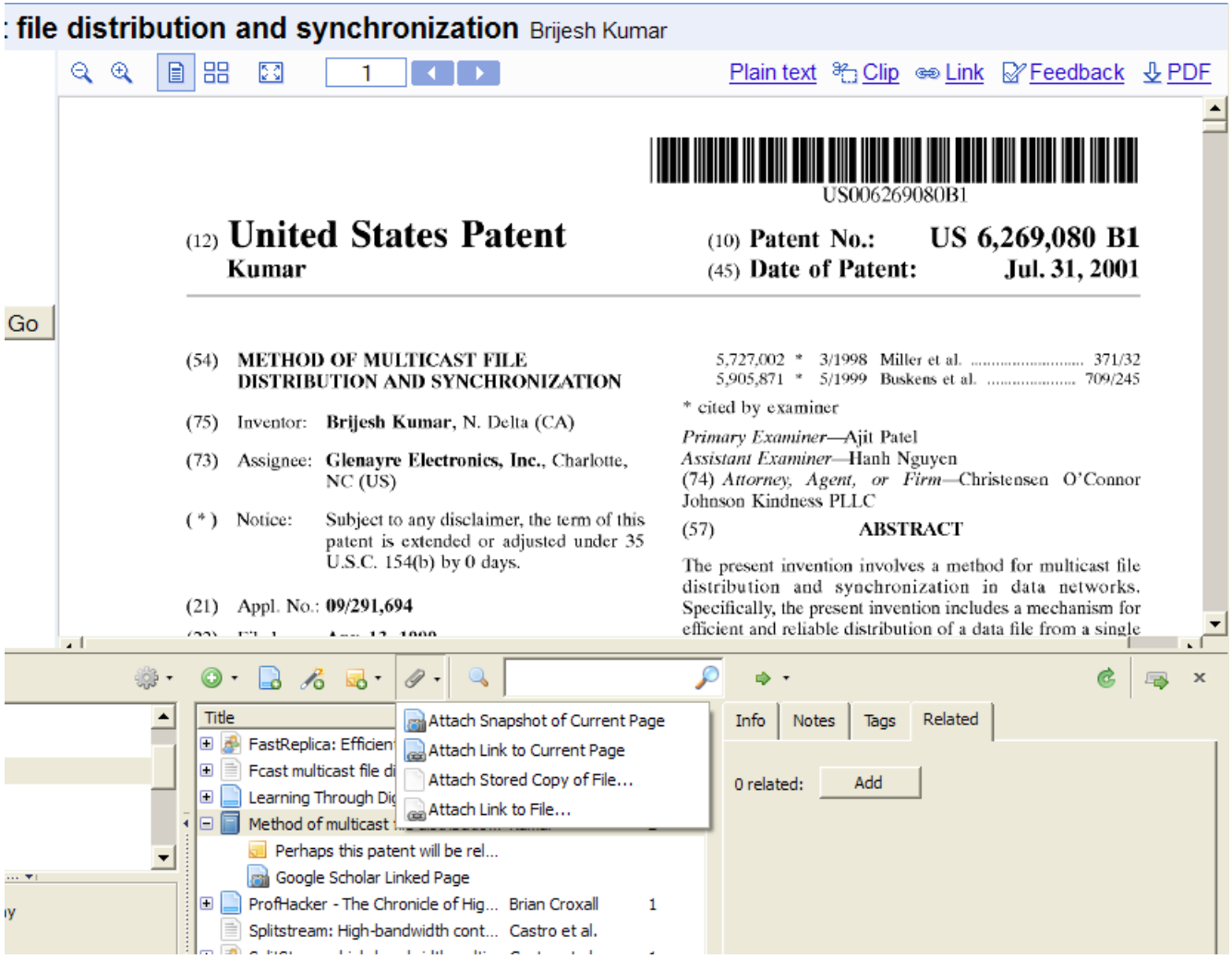


Attaching the PDF

(12) **United States Patent**
Kumar

(10) **Patent No.: US 6,269,080 B1**
(45) **Date of Patent: Jul. 31, 2001**

(54) **METHOD OF MULTICAST FILE DISTRIBUTION AND SYNCHRONIZATION**

(75) Inventor: **Brijesh Kumar**, N. Delta (CA)

(73) Assignee: **Glenayre Electronics, Inc.**, Charlotte, NC (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/291,694**

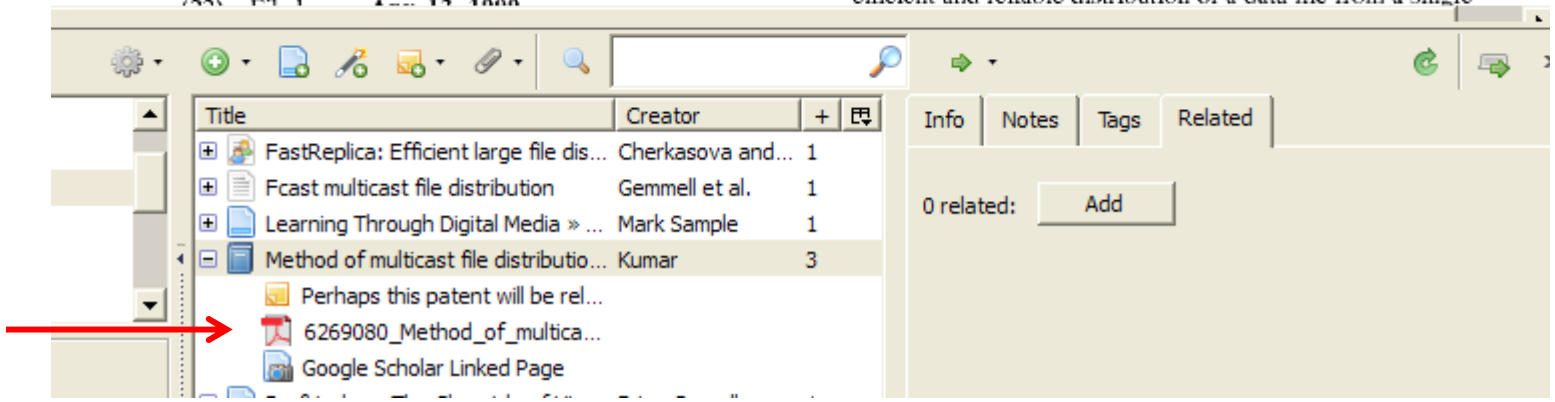
5,727,002 * 3/1998 Miller et al. 371/32
5,905,871 * 5/1999 Buskens et al. 709/245

* cited by examiner

Primary Examiner—Ajit Patel
Assistant Examiner—Hanh Nguyen
(74) *Attorney, Agent, or Firm*—Christensen O'Connor Johnson Kindness PLLC

(57) **ABSTRACT**

The present invention involves a method for multicast file distribution and synchronization in data networks. Specifically, the present invention includes a mechanism for efficient and reliable distribution of a data file from a single



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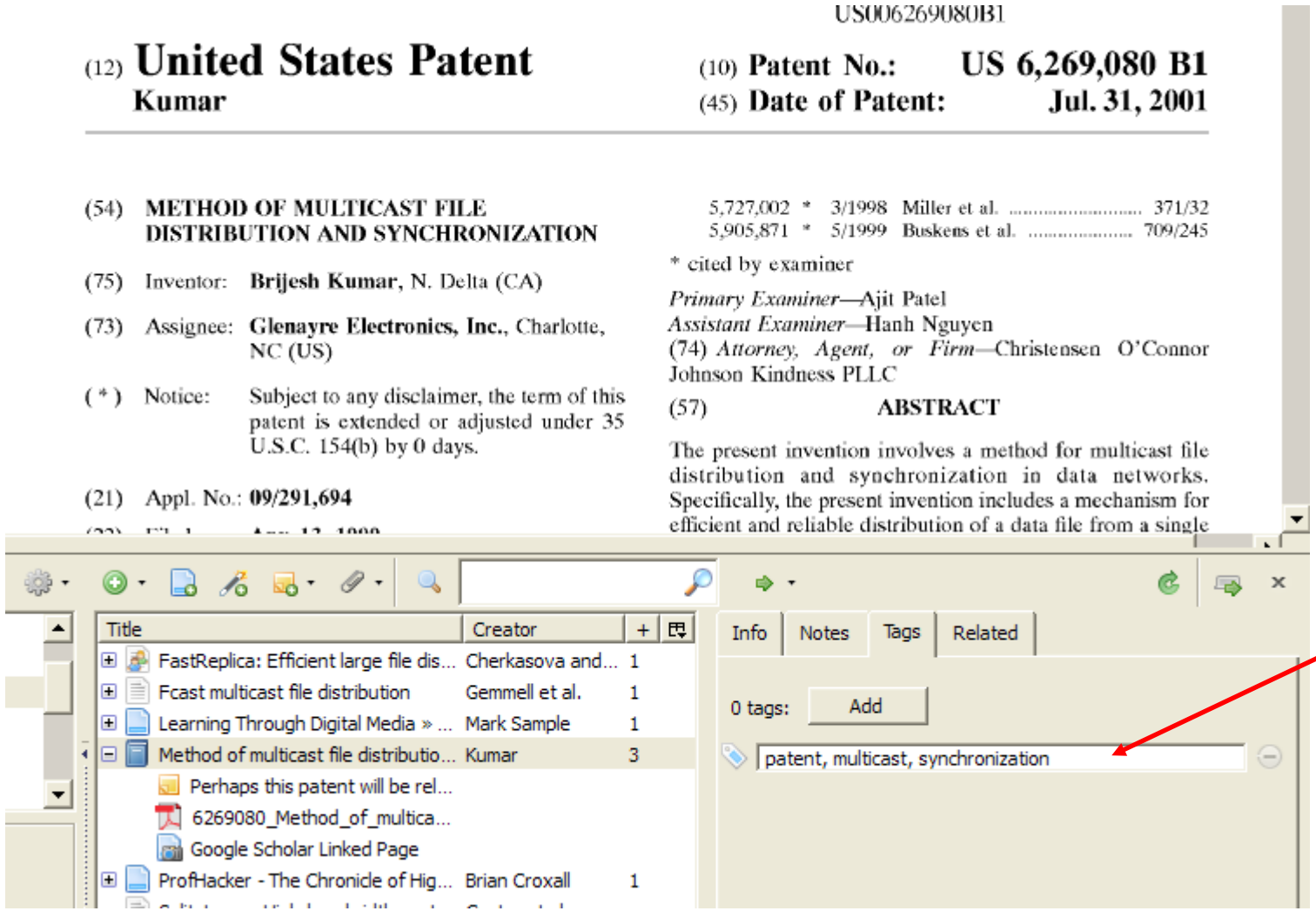

US006269080B1

(12) **United States Patent**
Kumar

(10) **Patent No.: US 6,269,080 B1**
(45) **Date of Patent: Jul. 31, 2001**

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* cited by examiner

Primary Examiner—Ajit Patel
Assistant Examiner—Hanh Nguyen
(74) *Attorney, Agent, or Firm*—Christensen O'Connor Johnson Kindness PLLC

(57) **ABSTRACT**

The present invention involves a method for multicast file distribution and synchronization in data networks. Specifically, the present invention includes a mechanism for efficient and reliable distribution of a data file from a single

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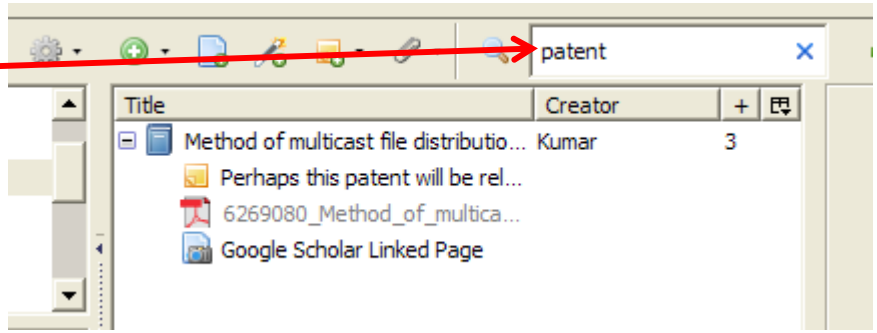

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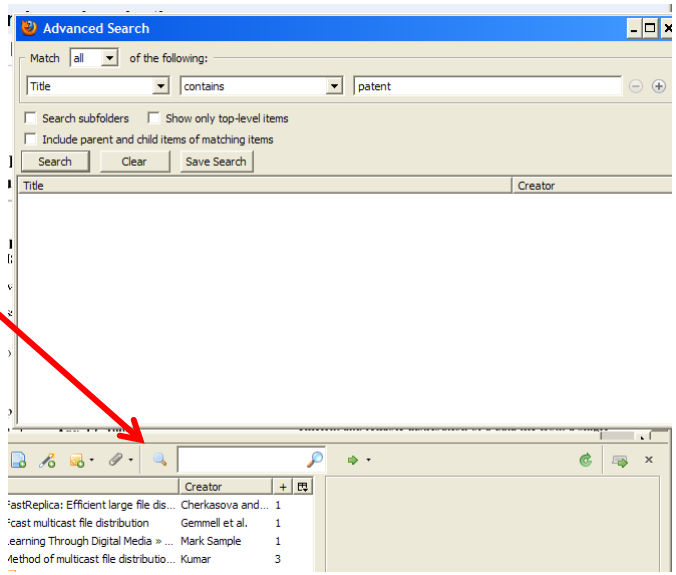

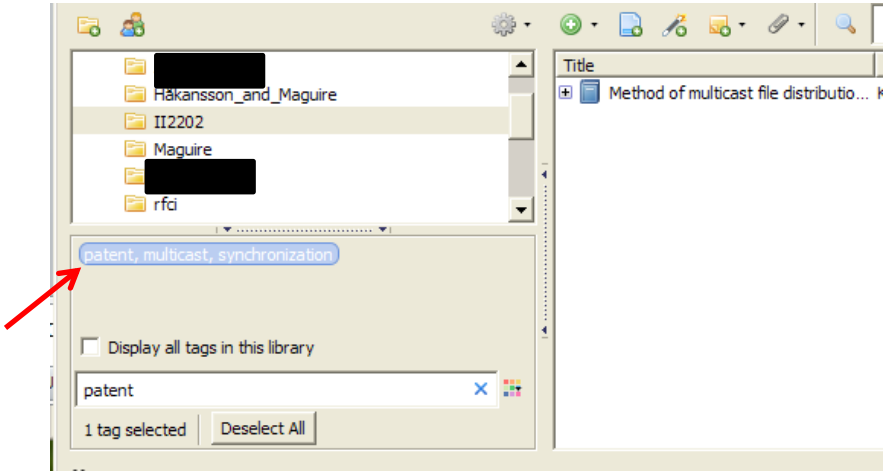

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Ahlin, Lars (Swedish Defence Research Agency (FOI))
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Jönsson, Christian (FOI)
Söderquist, Ingrid (FOI)
Zander, Jens (KTH, Superseded Departments, Signals, Sensors and Systems)
Maguire Jr., Gerald Q. (KTH, Superseded Departments, Teleinformatics)
Title:
Automous Tactical Communications Possibilities and Problems
Department:
KTH, Superseded Departments, Signals, Sensors and Systems
KTH, Superseded Departments, Teleinformatics
Publication type:
Conference paper (Refereed)
Language:
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MILCOM 97 Proceedings
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MILCOM 97, monterey, CA, 02 nov 1997 - 05 nov 1997
Pages:
393-397
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URI:
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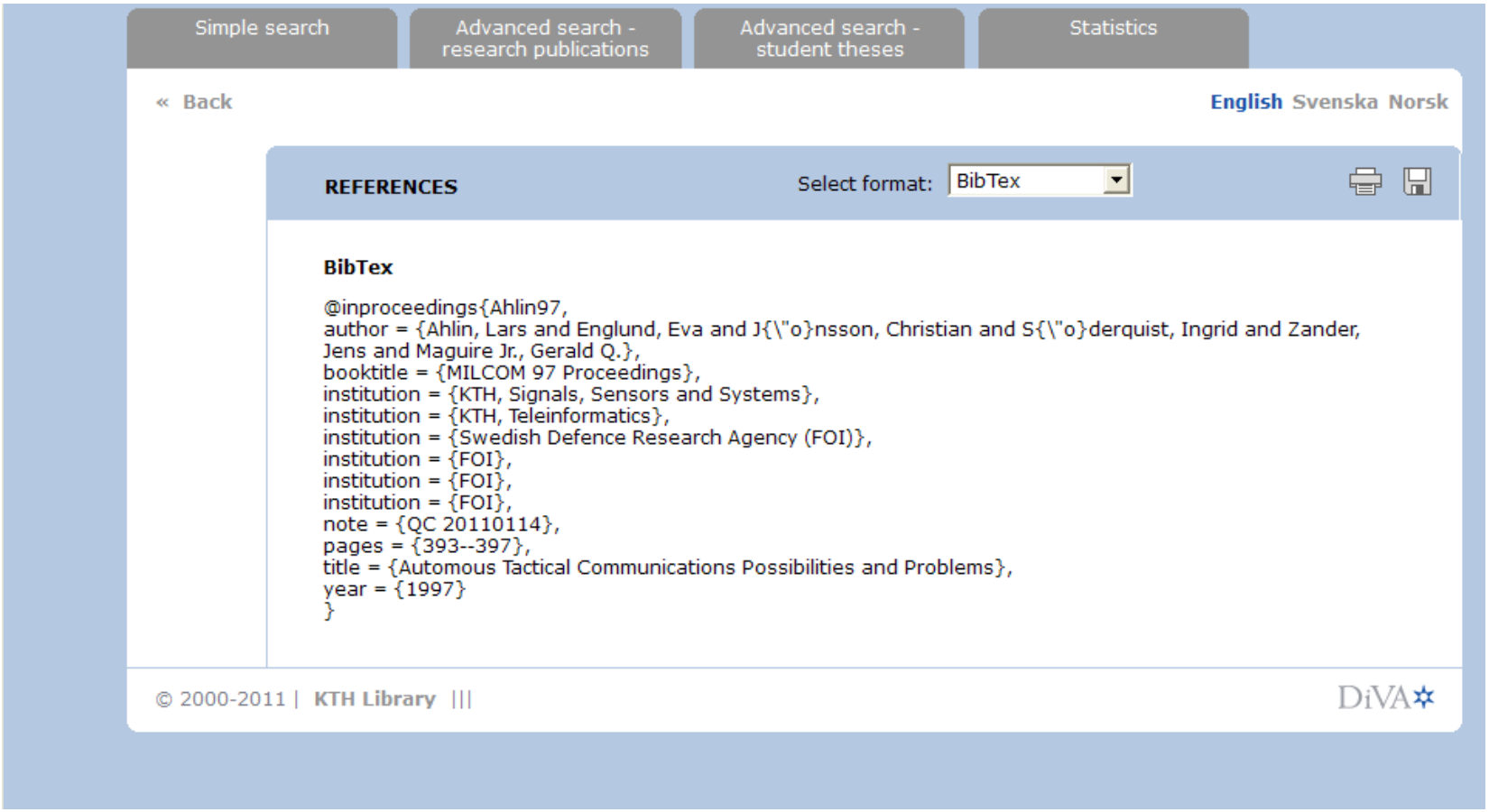
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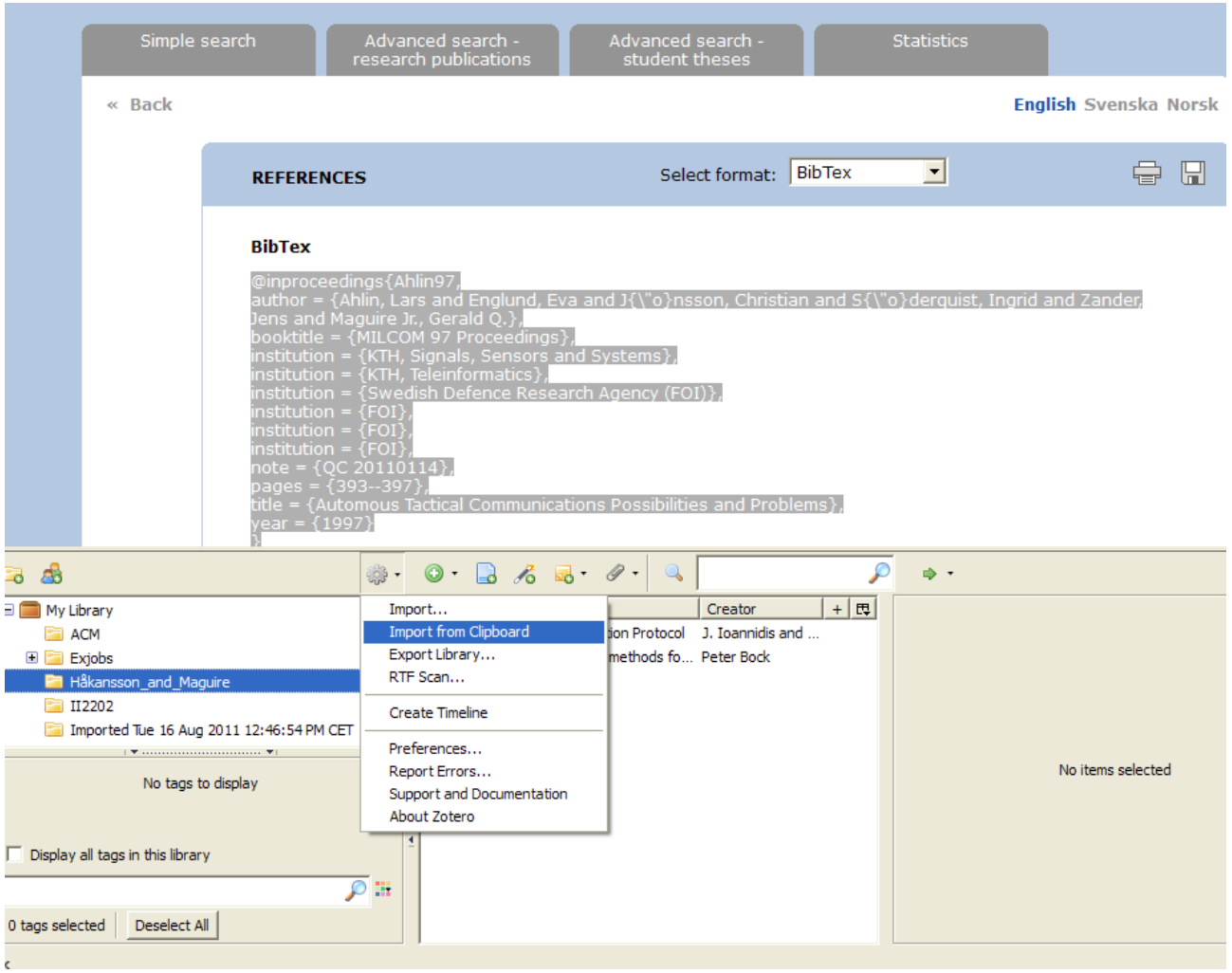

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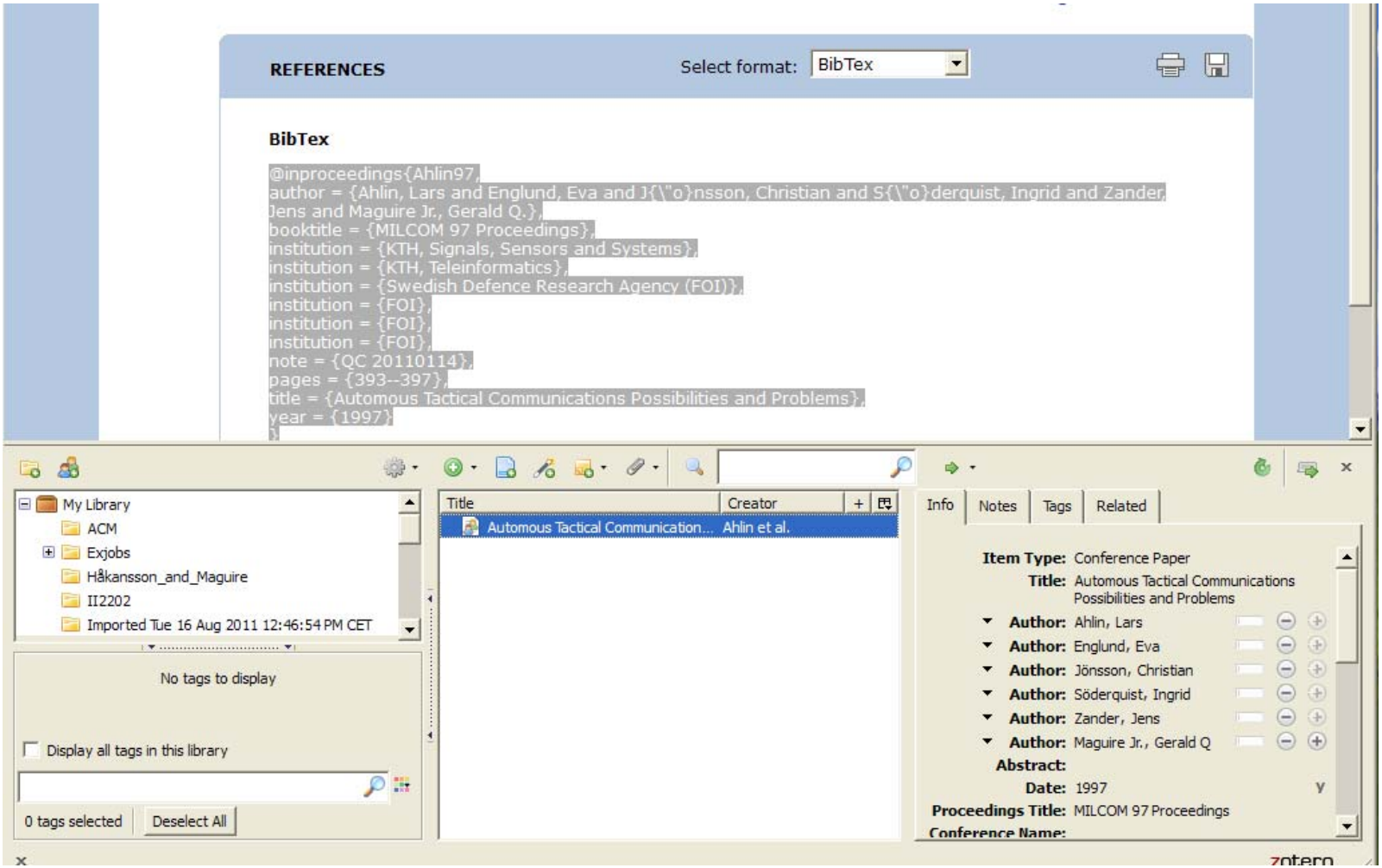
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Title: Automous Tactical Communications Possibilities and Problems
Author: Ahlin, Lars
Author: Englund, Eva
Author: Jönsson, Christian
Author: Söderquist, Ingrid
Author: Zander, Jens
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Date: 1997
Proceedings Title: MILCOM 97 Proceedings
Conference Name:
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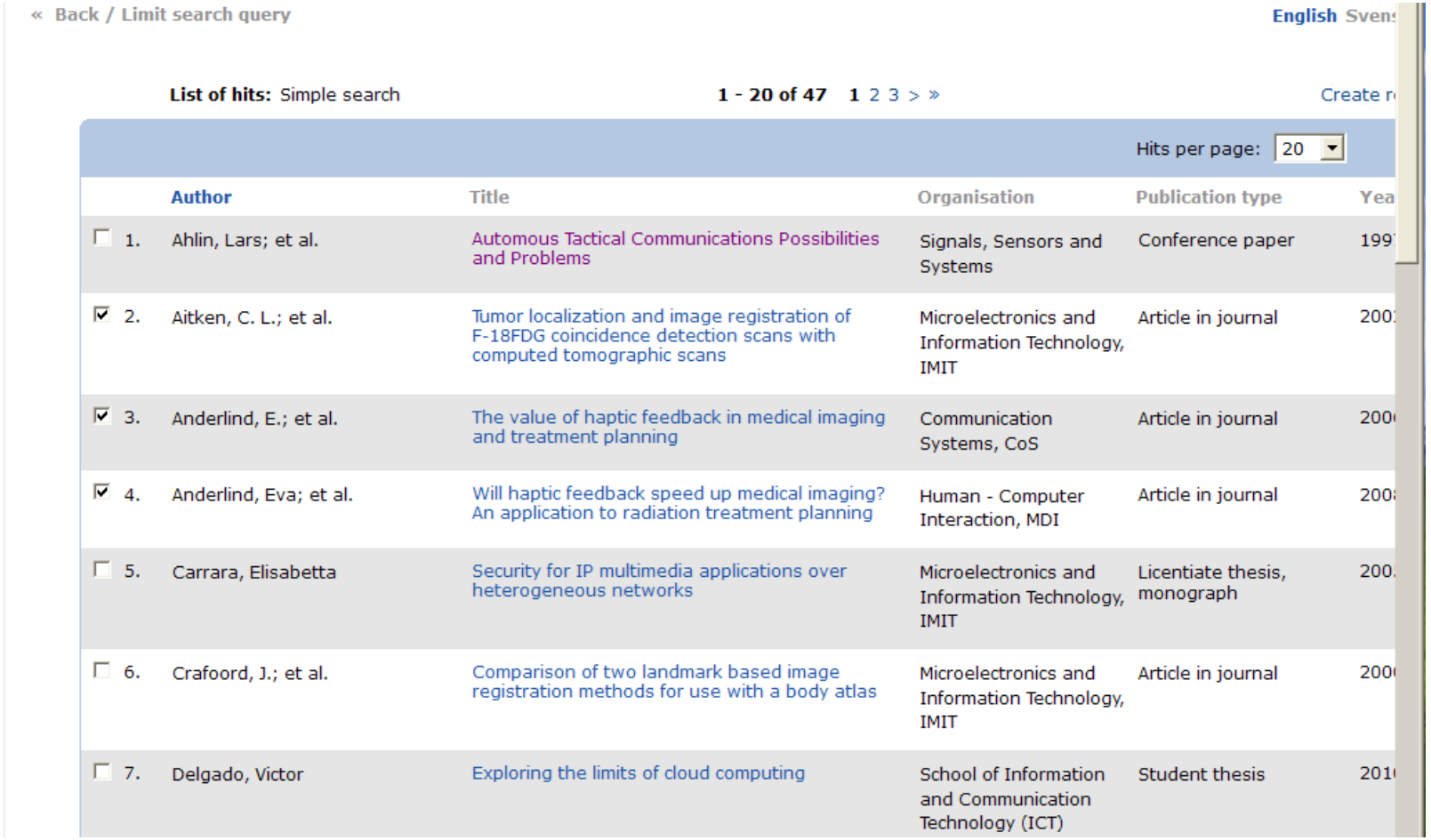

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☐ 1.	Ahlin, Lars; et al.	Automous Tactical Communications Possibilities and Problems	Signals, Sensors and Systems	Conference paper	199
☑ 2.	Aitken, C. L.; et al.	Tumor localization and image registration of F-18FDG coincidence detection scans with computed tomographic scans	Microelectronics and Information Technology, IMIT	Article in journal	200
☑ 3.	Anderlind, E.; et al.	The value of haptic feedback in medical imaging and treatment planning	Communication Systems, CoS	Article in journal	200
☑ 4.	Anderlind, Eva; et al.	Will haptic feedback speed up medical imaging? An application to radiation treatment planning	Human - Computer Interaction, MDI	Article in journal	200
☐ 5.	Carrara, Elisabetta	Security for IP multimedia applications over heterogeneous networks	Microelectronics and Information Technology, IMIT	Licentiate thesis, monograph	200
☐ 6.	Crafoord, J.; et al.	Comparison of two landmark based image registration methods for use with a body atlas	Microelectronics and Information Technology, IMIT	Article in journal	200
☐ 7.	Delgado, Victor	Exploring the limits of cloud computing	School of Information and Communication Technology (ICT)	Student thesis	201

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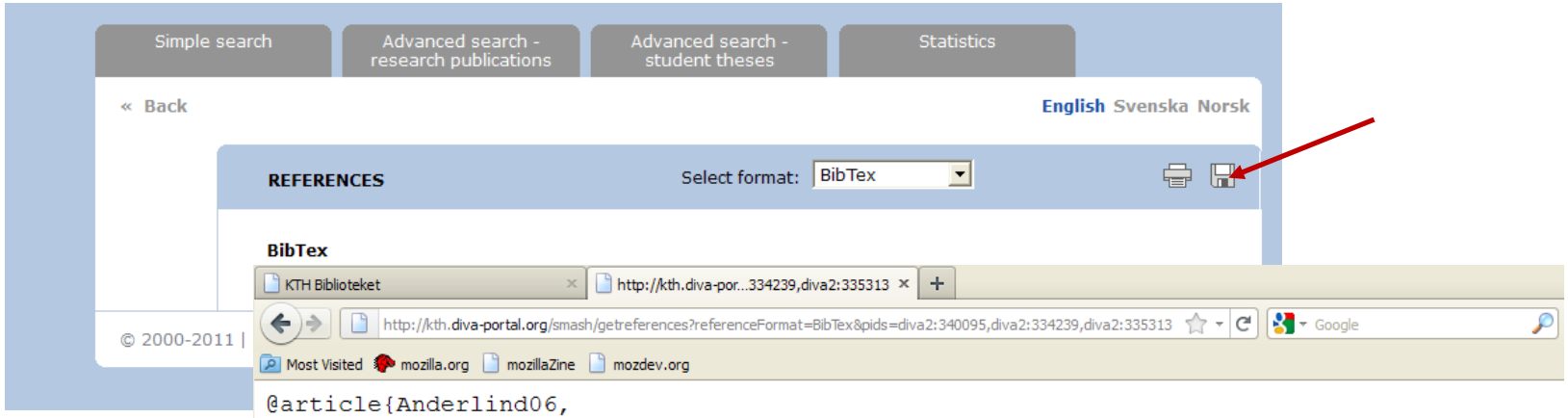


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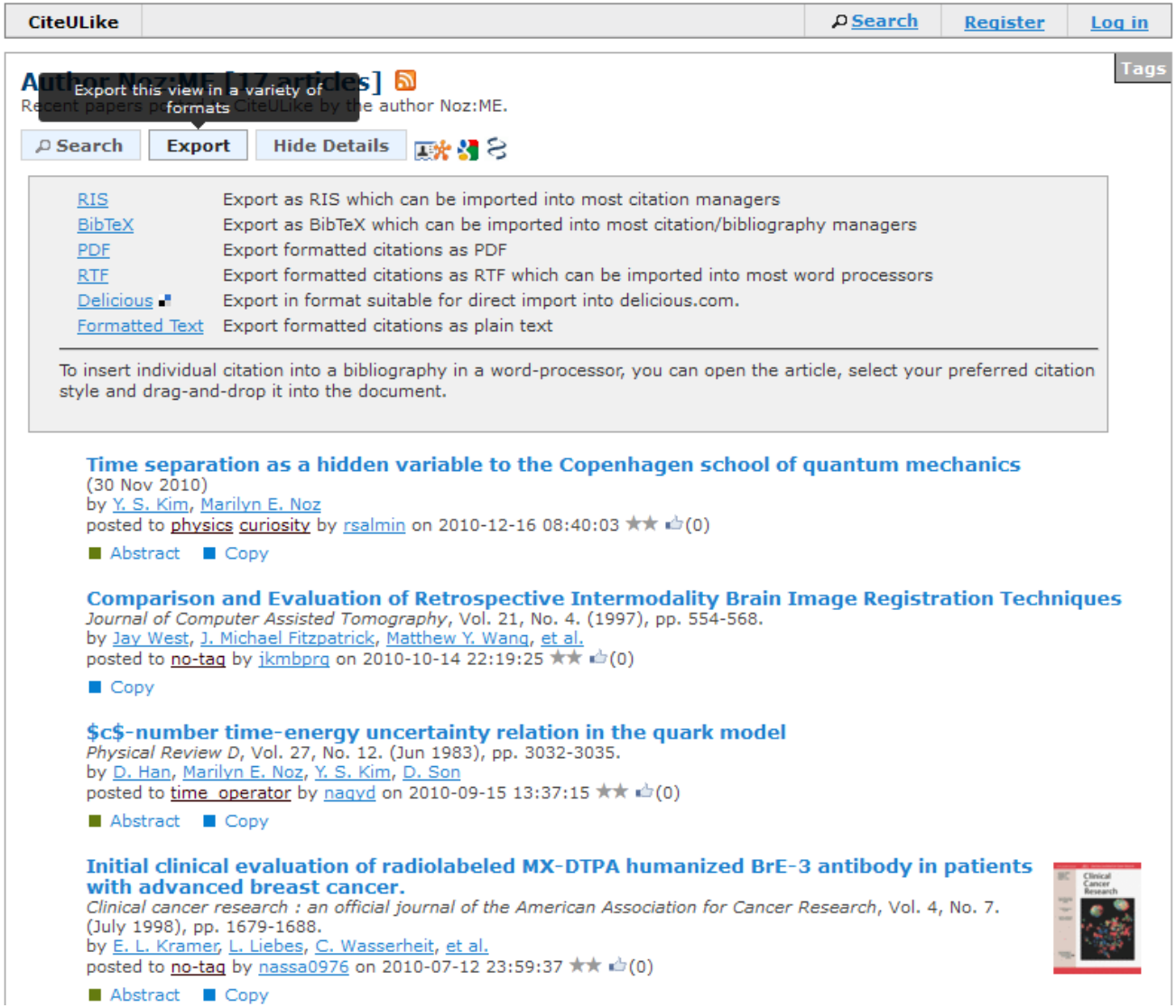
CiteULike – export BibTeX, RIS, ...



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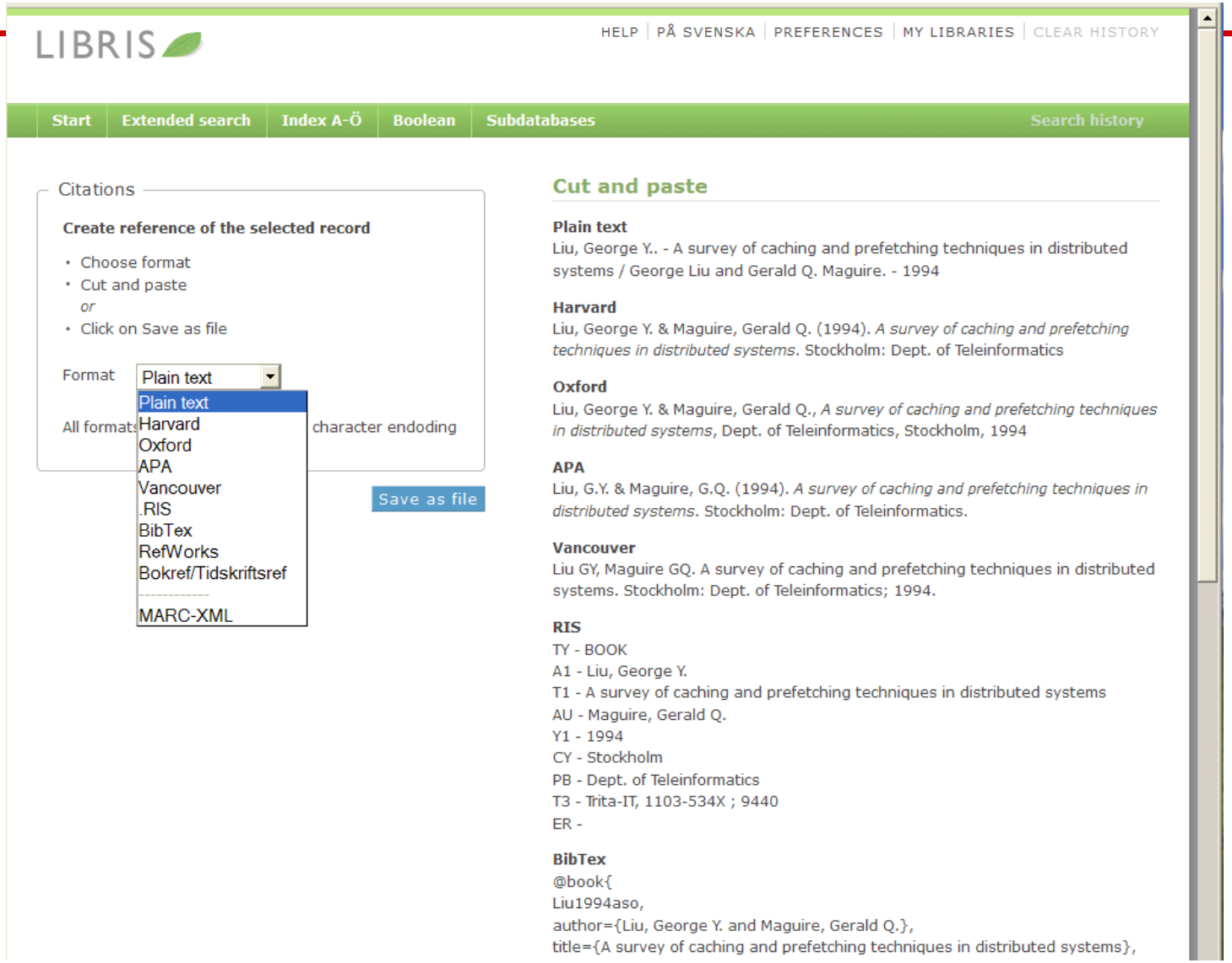
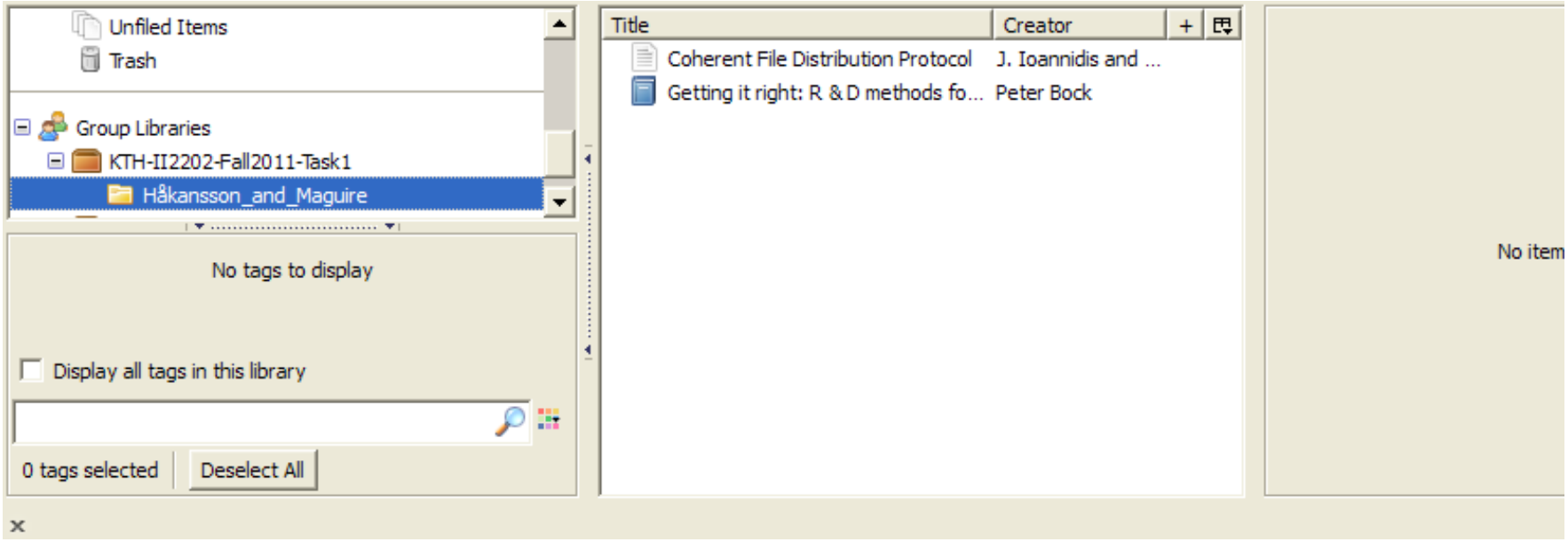


Zotero: Collections and subcollections

- **Not** folders, but rather collections of references
- A reference can be in more than one collection
- Deleting a reference from a *collection* does **not** delete the reference
- Deleting a reference from the **library** does delete the reference!

Group libraries



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Members 1
Description Some references that are used in the example Task1 project plan by Håkansson & Maguire.
Group Type Public, Closed Membership
Group Library Enabled (Anyone can view, only admins can edit)
Wear1
Group Library
Manage Profile · Manage Members · Manage Library
Members 2
Group Type Private
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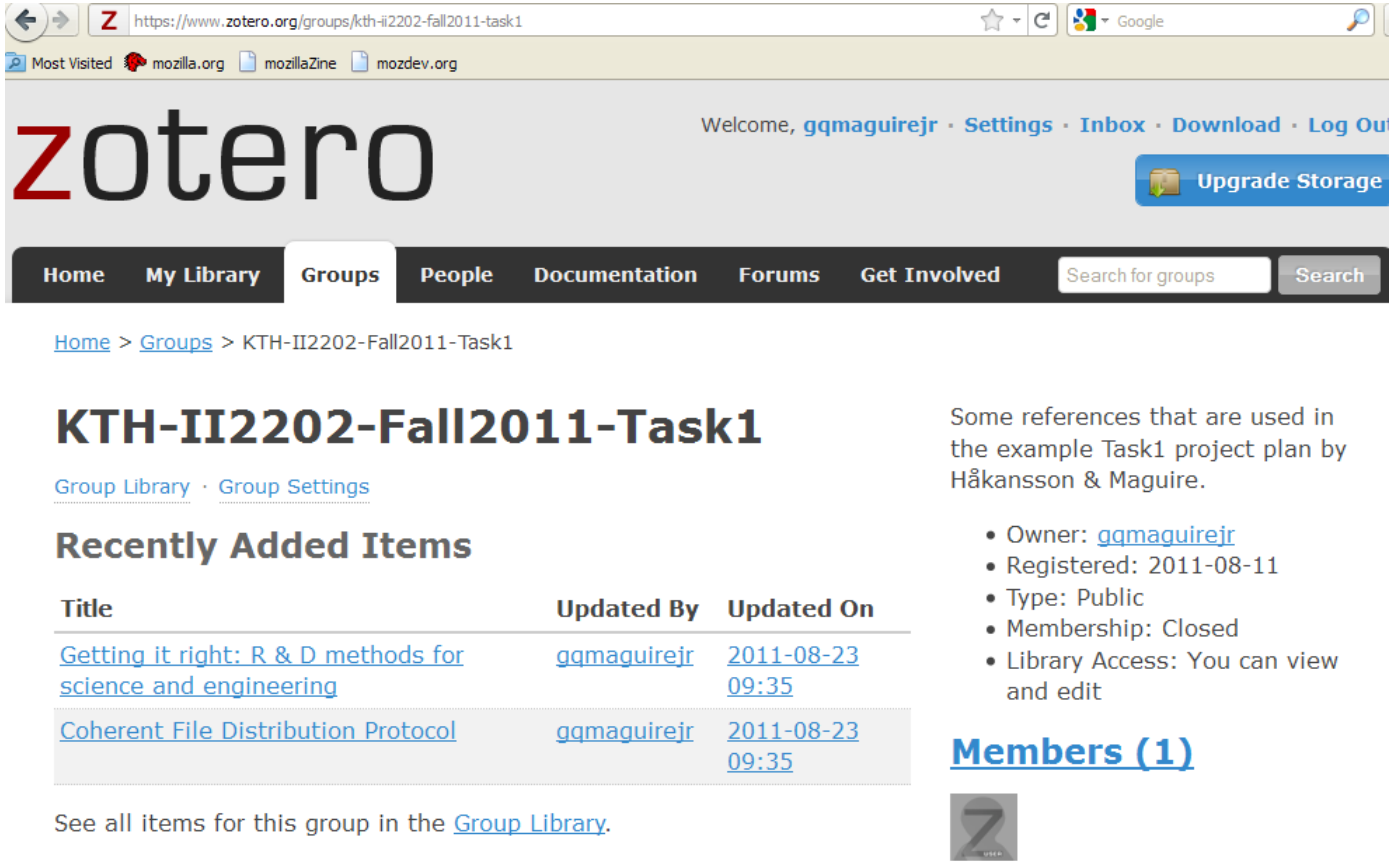
https://www.zotero.org/groups/kth-ii2202-fall2011-task1



Zotero's Duplicate detection (a feature in development)

In your Firefox browse to `about:config`

Then add a new boolean preference:

`Extensions.zotero.debugShowDuplicates`

Set the value to `true`

Restart Firefox

The "gear" menu nows has "Show Duplicates".

Note that if you invoke this and have a lot of reference it can take a **long** time!

Endnote X5

- A product of Thomson Reuters for Microsoft Windows and Apple Mac OS X
- Details at http://www.endnote.com/

See also:

Brian Croxall, Zotero vs. EndNote, The Chronicle of Higher Education, 3 May 2011, 11:00 am, http://chronicle.com/blogs/profhacker/zotero-vs-endnote/33157

Other bibliography/reference tools

- LibX – www.libx.org – browser plugin
- JabRef – Java based tool – utilizes BibTeX format http://jabref.sourceforge.net/
- BibDesk – for Mac OS X http://bibdesk.sourceforge.net
- Mendeley - free reference manager, but not open source (a social network – hence your data is **shared**) http://www.mendeley.com/

See: Julie Meloni, “Using Mendeley for Research Management”, A blog entry from ProfHacker - The Chronicle of Higher Education,19 July 2010,http://chronicle.com/blogs/profhacker/using-mendeley-for-research-management/25627

Export references from Zotero

- Royce Kimmons has taken advantage of Zotero's use of SQLite to export references to Excel http://kimmonsdesign.com/node/24
- Robert Vesco. "Using R to Extract Excel/csv File of Citation Data from Zotero", http://www.robertvesco.com/2011/07/technology/using-r-to-extract-excelcsv-file-of-citation-data-zotero.html
- Matthias Wjst. "PDF rename based on Zotero entry", http://www.wjst.de/blog/blog/2008/01/17/pdf-rename-based-on-zotero-entry/
  (example using PERL)

Learning

To move from novice learner to expert learner requires applying three principles:

- **Intentionality** – attention and deliberation
- **Reflection** – thinking about what worked, what did not work and why
- **Accountability** – being responsible for what you do, say, write, …

Mark Sample, “Learning Through Digital Media: Sharing Research and Building Knowledge through Zotero”, Blog entry, Learning Through Digital Media: Experiments in Technology and Pedagogy as part of Mobility Shifts: an International Future of Learning Summit (editor R. Trebor Scholz), http://learningthroughdigitalmedia.net/sharing-research-and-building-knowledge-through-zotero

Artisan versus Virtuoso

From **artisan** (highly competent experts) to **virtuoso** (going beyond what they already expertly know to push the state of the art ⇒ knowing which rules to break)

⇒ Use **metacognition** to become an expert

see page 50, in Chapter 2: How Experts Differ from Novices, in John Bransford, Ann L. Brown, and Rodney R. Cocking (Editors), *How people learn: brain, mind, experience, and school*, Expanded ed., Commission on Behavioral and Social Sciences and Education, National Research Council,National Academy Press, Washington D.C., USA, 2000, ISBN 978-0-309-07036-2, http://books.nap.edu/catalog.php?record_id=9853

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and
<a href="http://kth.diva-portal.org/dice/table?query=+publicationTypeCode:book%20+authorId:u1d13i2c&amp;start=0&amp;rows=500&amp;sort=year%20desc">Books</a>.</p>

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<p>Or even fancier <a href="maguire-publications.php">here</a> and at researcherid.com
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A list of theses from DiVA for which I was the examiner.

Or even fancier here and at researcherid.com R.

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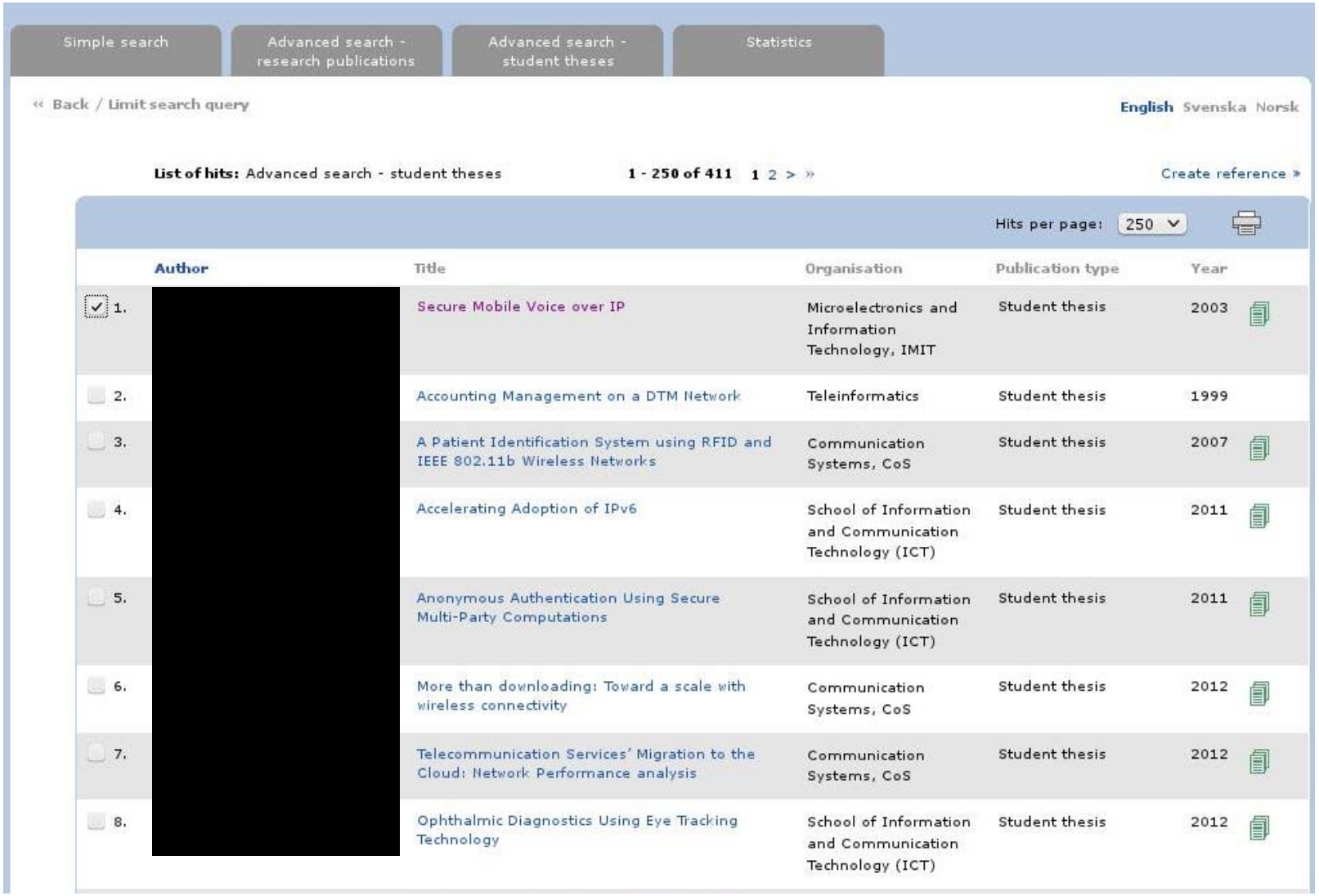

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	Author	Title	Organisation	Publication type	Year
1.	[redacted]	Secure Mobile Voice over IP	Microelectronics and Information Technology, IMIT	Student thesis	2003
2.		Accounting Management on a DTM Network	Teleinformatics	Student thesis	1999
3.		A Patient Identification System using RFID and IEEE 802.11b Wireless Networks	Communication Systems, CoS	Student thesis	2007
4.		Accelerating Adoption of IPv6	School of Information and Communication Technology (ICT)	Student thesis	2011
5.		Anonymous Authentication Using Secure Multi-Party Computations	School of Information and Communication Technology (ICT)	Student thesis	2011
6.		More than downloading: Toward a scale with wireless connectivity	Communication Systems, CoS	Student thesis	2012
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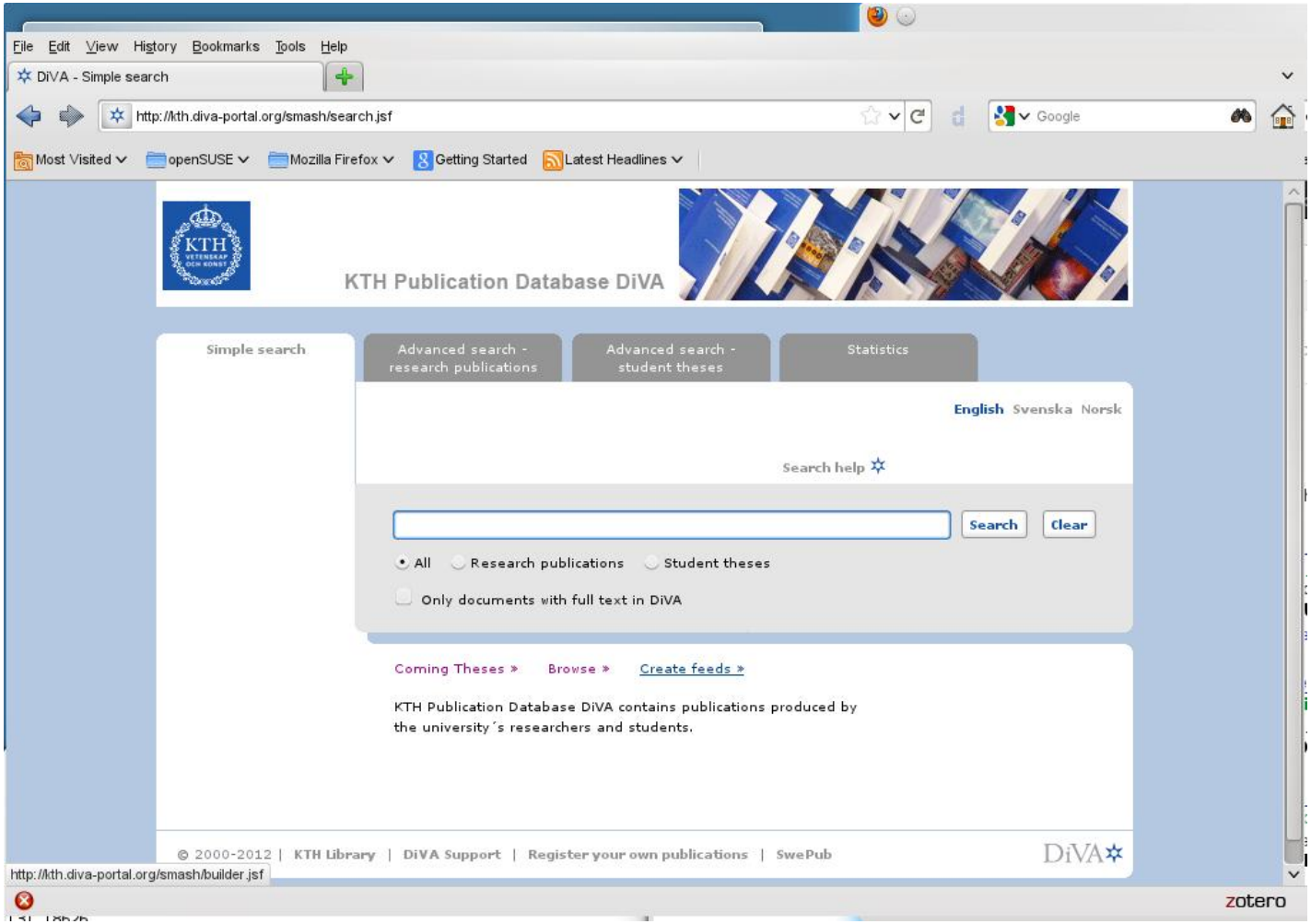

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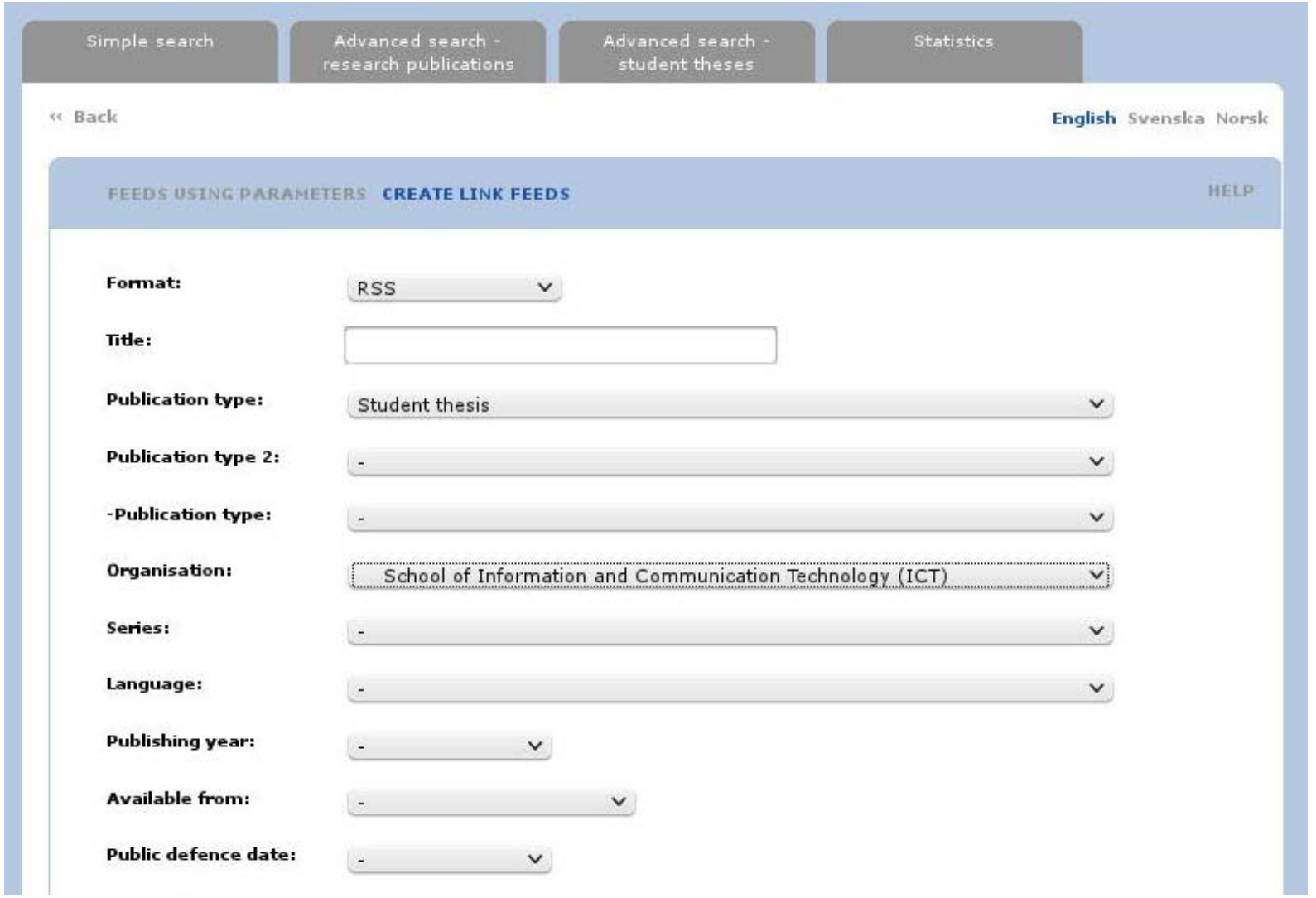

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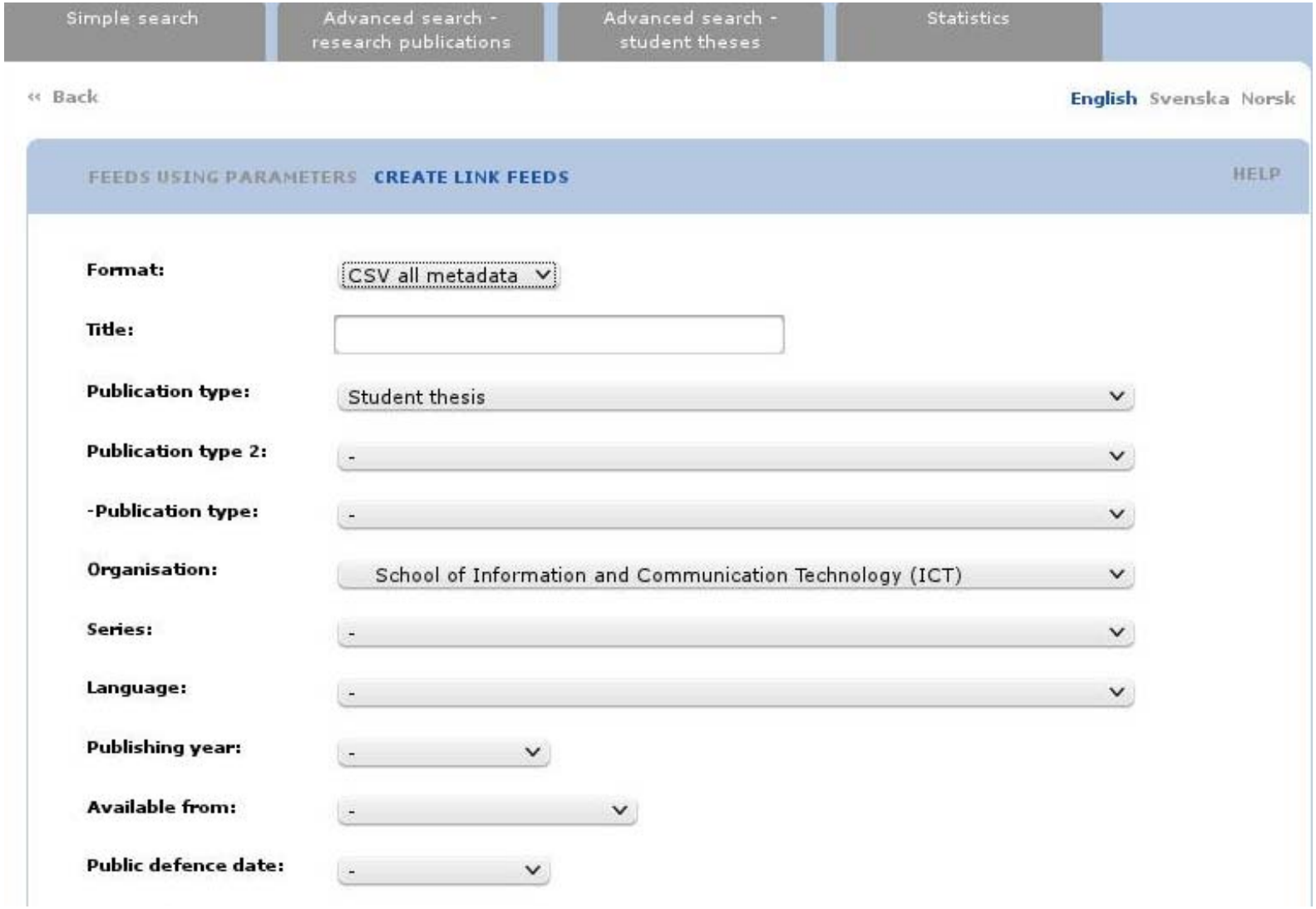

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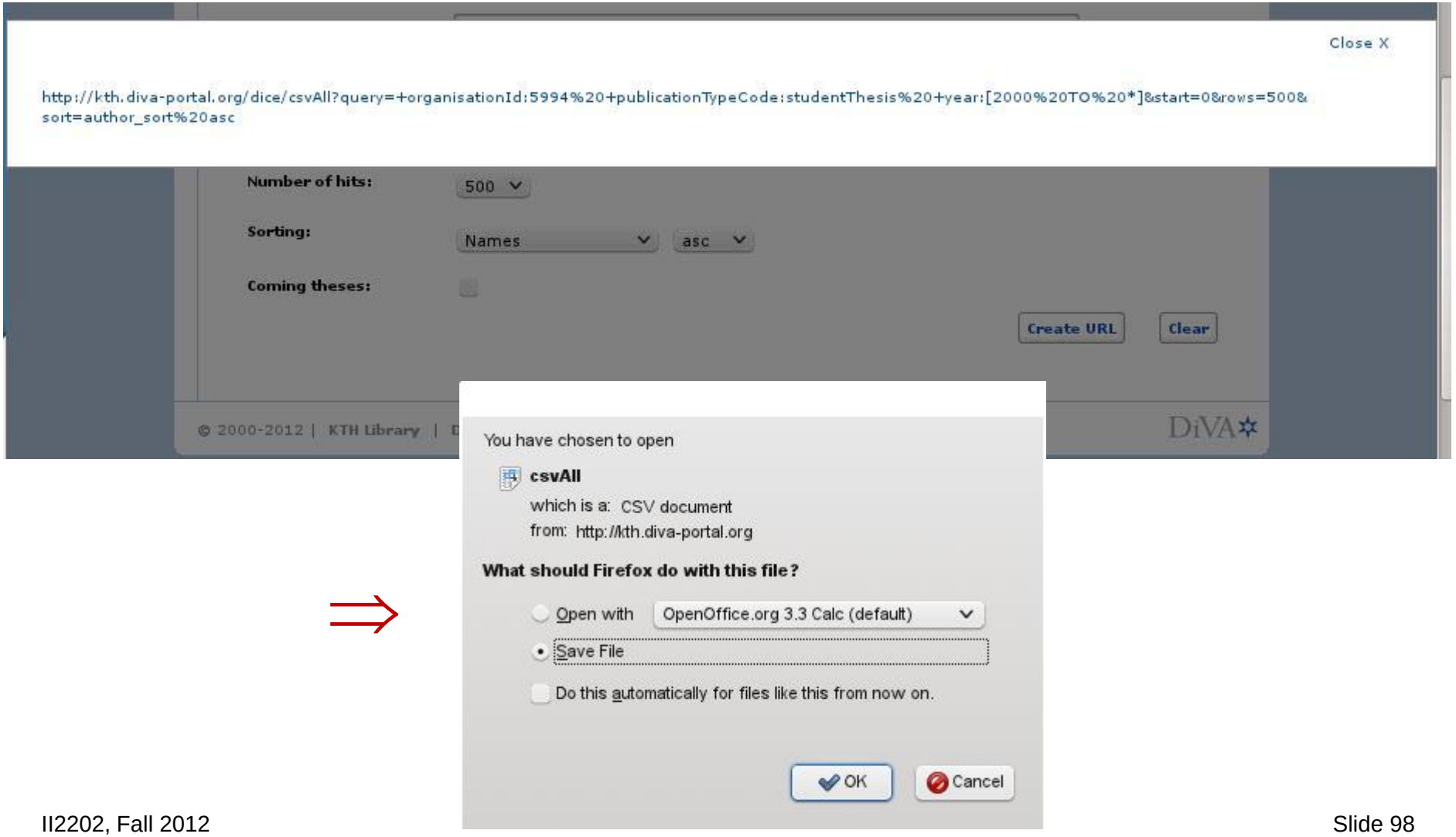
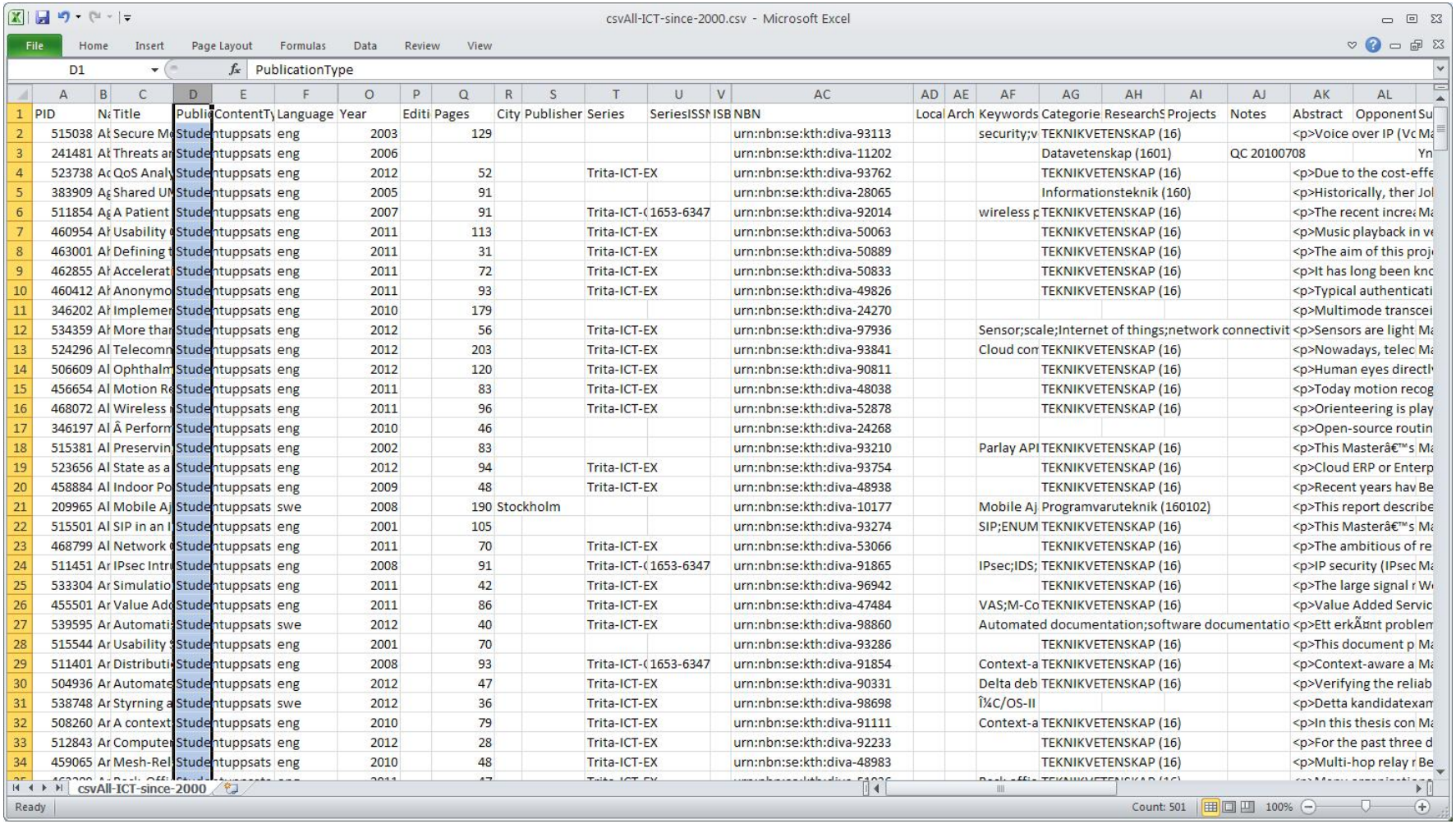


Using a DiVA CSV feed URL



Convert the CSV entries to BibTeX

python diva-thesis-stats.py csvAll-ICT-since-2000.csv > csvAll-ICT-since-2000.bib

⇒

```
@MastersThesis{KTH_thesis2003_515038,
        autho[redacted]anuel},
        title = {Secure Mobile Voice over IP},
        school = {{KTH} Royal Institute of Technology, School of Information and Communication Technology {(ICT)}, Communication Systems {(CoS)}},
        year = {2003},
        month = {April},
        type = {Masters's thesis},
        address = {Stockholm, Sweden},
        pages = {129},
        language = {English},
        keywords = {{security},{voice over IP},{Secure Real-Time Protocol (SRTP)}},
        abstract = {Voice over IP (VoIP) can be defined as the ability to make phone calls and to send faxes (i.e., to do everything we can do today
Switched Telephone Network, PSTN) over IP-based data networks with a suitable quality of service and potentially a superior cost/benefit ratio. Ther
provide (VoIP) with the suitable security without effecting the performance of this technology. This becomes even more important when VoIP utilizes
gies as the data networks (such as Wireless Local Area Networks, WLAN), given the bandwidth and other constraints of wireless environments, and the
osts of the security mechanisms. As for many other (secure) applications, we should consider the security in Mobile VoIP as a chain, where every lir
e establishment to the secure termination of a call, must be secure in order to maintain the security of the entire process.
This document presents a solution to these issues, providing a secure model for Mobile VoIP that minimizes the processing costs and the bandwidth co
s mainly achieved by making use of high- throughput, low packet expansion security protocols (such as the Secure Real-Time Protocol, SRTP); and high
 algorithms (such as the Advanced Encryption Standard, AES).
In the thesis I describe in detail the problem and its alternative solutions. I also describe in detail the selected solution and the protocols and
olution utilizes, such as the Transport Layer Security (TLS) for securing the Session Initiation Protocol (SIP), the Real-Time Protocol (RTP) profil
e Protocol (SRTP) for securing the media data transport , and the Multimedia Internet KEYing (MIKEY) as the key-management protocol. Moreover, an im
RTP, called MINIsrtp, is also provided. The oral presentation will provide an overview of these topics, with an in depth examination of those parts
st significant or unexpectedly difficult.
Regarding my implementation, evaluation, and testing of the model, this project in mainly focused on the security for the media stream (SRTP). Howev
retical work has also been performed and will be presented, which includes other aspects, such as the establishment and termination of the call (usi
ey-management protocol (MIKEY).},
        abstract-sv = {Voice over IP (VoIP) kan defineras som förmågan att göra ett telefonsamtal och att skicka fax (eller att göraallting som man
r det publika telefonnätet) över ett IP-baserat nätverk med en passande kvalitet och till lägre kostnad, alternativt större nytta.
VoIP måste tillhandahållas med nödvändiga säkerhetstjänster utan att teknikens prestanta påverkas. Detta blir allt viktigare när VoIP används över t
ker (såsom trådlösa lokala nätverk, WLAN), givet dessa länkars begränsade bandbredd och den bearbetningkraft som krävs för att exekvera säkerhetsmek
te tänka på VoIPs säkerhet likt en kedja där inte någon länk, från säker uppkoppling till säker nedkoppling, får fallera för att erhålla en säker pr
kument presenteras en lösning på detta problem och innefattar en säker modell för Mobile VoIP som minimerar bearbetningskostnaderna och bandbreddsut
 erhålls huvudsakligen genom utnyttjande av säkerhetsprotokoll med hög genomströmning och låg paketexpansion, såsom "Secure Real- time Protocol" (SR
eringsprotokoll med hög hastighet, såsom "Advanced Encryption Standard" (AES).
I detta dokument beskriver jag problemet och dess alternativa lösningar. Jag beskriver också den valda lösningen och dess protokoll och mekanismer m
ll exempel "Transport Layer Security" (TLS) för att säkra "Session Initiation Protocol" (SIP), SRTP för att skydda transporten av data och "Multimed
g" (MIKEY) för nyckelhantering. En implementation av SRTP, kallad MINIsrtp, finns också beskriven.
Beträffande praktiskt arbete och tester av lösningsmodellen har detta projekt fokuserats på skyddandet av datatransporten (SRTP), dess implementatio
Emellertid har en grundlig teoretisk undersökning genomförts, vilken innefattar andra aspekter såsom telefonsamtalets uppkoppling och nedkoppling (m
och valet av passande nyckelhanteringsprotokoll (MIKEY) för att stödja SRTP.},
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}
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Conclusions

- Carefully select your tools
- Learn to use your tools well (and safely)
- When you truly master the tool, then you can "make" it do what you need to do

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¿Questions?