



# Power tools and how to use them

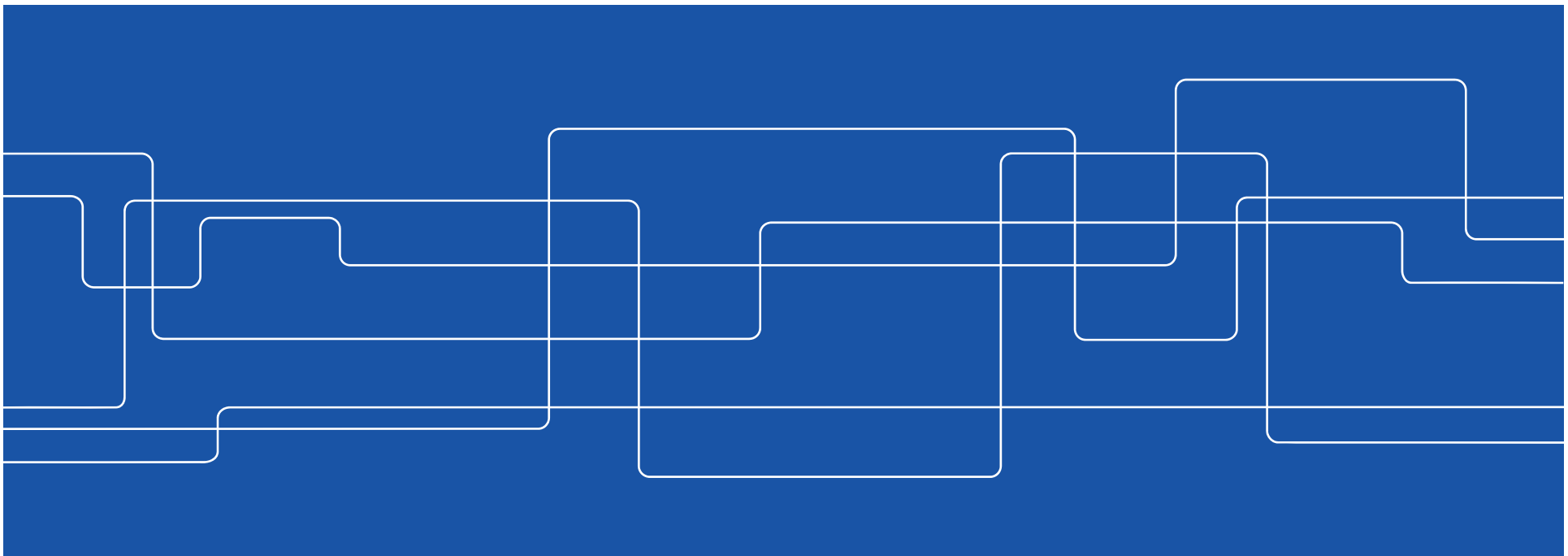
prof. Gerald Q. Maguire Jr. <http://web.ict.kth.se/~maguire>

School of Information and Communication Technology (ICT), KTH Royal Institute of Technology

II2202 Fall 2013

2013.09.09

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## My personal goal: To be lazy

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

∴ 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  $N \gg 2$



**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

⇒

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*<sup>®</sup> Digital Library
- Institute of Engineering and Technology (IET) Inspec
- CiteSeerX (<http://citeseerx.ist.psu.edu/>)
- ISI Web of Knowledge
- U. S. Patent and Trademark Office ([www.USPTO.gov](http://www.USPTO.gov)), European Patent Office ([www.epo.org](http://www.epo.org)), ..., Japan Patent Office ([www.jpo.go.jp](http://www.jpo.go.jp)): Industrial Property Digital Library(IPDL) - [http://www.ipdl.inpit.go.jp/homepg\\_e.ipdl](http://www.ipdl.inpit.go.jp/homepg_e.ipdl)
- Search engines: Google, Google Scholar, Google Books, CiteULike, ...



## Additional common places to look – for ICT sources

- DiVA ([kth.diva-portal.org](http://kth.diva-portal.org)): KTH publications (including theses and dissertations) – see also [www.essays.se](http://www.essays.se), [www.dissertations.se](http://www.dissertations.se), [libris.kb.se/index.jsp?language=en](http://libris.kb.se/index.jsp?language=en)
- [arXiv.org](http://arXiv.org) – preprints, [Computing Research Repository](http://Computing Research Repository)
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2012: [Anand Kannan](#) and [Gerald Q. Maguire Jr.](#) and [Ayush Sharma](#) and [Peter Schoo](#)  
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ICDM Workshops, pp. 416-423, IEEE Computer Society, 2012. [Unknown Format](#) [Try IEEEExplore](#)

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EuroSSC, Lecture Notes in Computer Science, Vol. 6446, pp. 28-41, Springer, 2010.

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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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## What to do when you locate a potential source

Read the abstract, conclusions, body, references, list of authors and their affiliations, ...

Write down **all** the necessary reference information, so that you can:

- Find this source again
- Cite it - if you find it relevant

Write a summary of what you learned



## What to write down for each reference

Write a complete reference or use the document's identifier to automatically get this information

For a web page it is essential to have the **date of access** or **date of last modification** in addition to the URL - as web page content can change with time (<http://wayback.archive.org/web/>)



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  author = {Liu, George and Maguire, Gerald},  
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  booktitle = {Databases and Mobile Computing},  
  editor = {Barbara, Daniel and Jain, Ravi and Krishnakumar, Narayanan}, publisher = {Springer US},  
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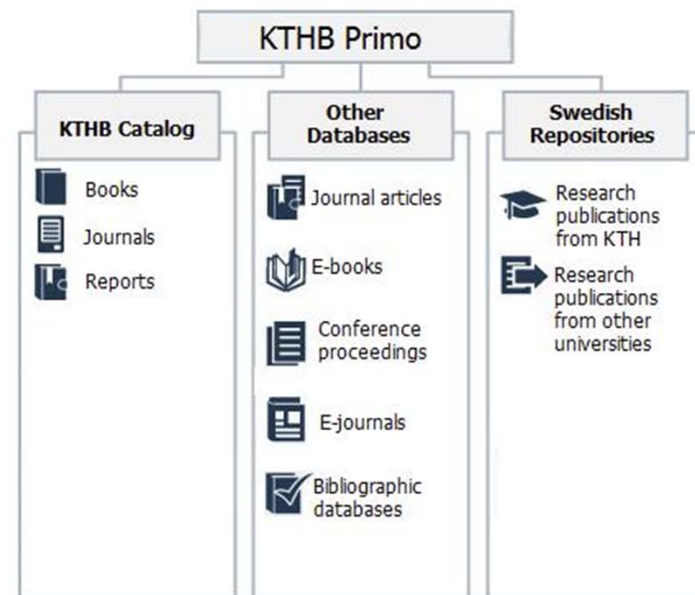
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## A new CT method for measuring cup orientation after total hip arthroplasty - A study of 10 patients

**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, GO (Maguire, GO); Zeleznik, MP (Zeleznik, MP); Svensson, L (Svensson, L); Jonson, T (Jonson, T)

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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

**Reprint Address:** Olivecrona, H (reprint author)  
Soder Sjukhuset, Dept Hand Surg, SE-11883 Stockholm, Sweden.

### Addresses:

- [1] Soder Sjukhuset, Dept Hand Surg, SE-11883 Stockholm, Sweden
- [2] Eskadern AB, SE-41301 Gothenburg, Sweden
- [3] Royal Inst Technol, Dept Math, SE-10044 Stockholm, Sweden
- [4] RAHD Oncol Prod, St.Louis, MO 63135 USA
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- [6] Royal Inst Technol, Dept Microelect & Informat Technol, SE-16440 Kista, Sweden
- [7] NYU, Sch Med, Dept Radiol, New York, NY 10016 USA
- [8] Karolinska Hosp, Dept Radiol, SE-17176 Stockholm, Sweden
- [9] Karolinska Hosp, Dept Orthoped, SE-17176 Stockholm, Sweden

**E-mail Addresses:** henrik.olivecrona@sos.sll.se

**Author Identifiers:**

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Westacott, Daniel J. Assessment of cup orientation in hip resurfacing: a comparison of TraumaCad and computed tomography. JOURNAL OF ORTHOPAEDIC SURGERY AND RESEARCH, APR 11 2013.

Amiri, Shahram. A Multiplanar Radiography Method for Assessing Cup Orientation in Total Hip Arthroplasty. JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME, OCT 2012.

Bachhal, Vikas. A new method of measuring acetabular cup anteversion on simulated radiographs. INTERNATIONAL ORTHOPAEDICS, SEP 2012.

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- Title: **Assessment of cup orientation in hip resurfacing: a comparison of TraumaCad and computed tomography**  
Author(s): Westacott, Daniel J.; McArthur, John; King, Richard J.; et al.  
Source: JOURNAL OF ORTHOPAEDIC SURGERY AND RESEARCH Volume: 8 Article Number: 8 DOI: 10.1186/1749-799X-8-8  
Published: APR 11 2013  
Times Cited: 0 (from All Databases)  
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- Title: **A Multiplanar Radiography Method for Assessing Cup Orientation in Total Hip Arthroplasty**  
Author(s): Amiri, Shahram; Masri, Bassam A.; Garbuz, Donald; et al.  
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- Title: **A new method of measuring acetabular cup anteversion on simulated radiographs**  
Author(s): Bachhal, Vikas; Jindal, Nipun; Saini, Gaurav; et al.  
Source: INTERNATIONAL ORTHOPAEDICS Volume: 36 Issue: 9 Pages: 1813-1818 DOI: 10.1007/s00264-012-1583-9 Published: SEP 2012  
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- Title: **CT of the Hip Prosthesis: Appearance of Components, Fixation, and Complications**  
Author(s): Roth, Trenton D.; Maertz, Nathan A.; Parr, J. Andrew; et al.  
Source: RADIOGRAPHICS Volume: 32 Issue: 4 Pages: 1089-+ DOI: 10.1148/rg.324115183 Published: JUL-AUG 2012  
Times Cited: 3 (from All Databases)  
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- Title: **Anteversion of the Acetabular Component Aligned With the Transverse Acetabular Ligament in Total Hip Arthroplasty**  
Author(s): Miyoshi, Hideaki; Mikami, Hiroshi; Oba, Koichi; et al.  
Source: JOURNAL OF ARTHROPLASTY Volume: 27 Issue: 6 Pages: 916-922 DOI: 10.1016/j.arth.2011.10.017 Published: JUN 2012



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**6** **MAKING THE MOST OF WLANS-FROM ANY LOCATION.(Letter to the Editor)**  
Network Computing, June 24, 2002, p.16



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European spine journal, 2012, Vol.21(4), pp.599-605 [Peer Reviewed Journal]  
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Maguire Jr., Gerald Q. ; Mcgee, Ellen M.  
Dendra Médica.Revista de Humanidades, 2010, Vol.9(2), pp.139-142  
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Authors: [John Ioannidis](#) [Department of Computer Science, Columbia University](#)  
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Published in:

- Proceeding  
SIGCOMM '91 Proceedings of the conference on Communications architecture & protocols  
Pages 235-245  
[ACM](#) New York, NY, USA ©1991  
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ACM SIGCOMM Computer Communication Review [Homepage](#)  
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Pages 235-245  
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```
@inproceedings{Ioannidis:1991:IPM:115992.116014,
  author = {Ioannidis, John and Duchamp, Dan and Maguire, Jr., Gerald Q.},
  title = {IP-based protocols for mobile internetworking},
  booktitle = {Proceedings of the conference on Communications architecture \& protocols},
  series = {SIGCOMM '91},
  year = {1991},
  isbn = {0-89791-444-9},
  location = {Zurich, Switzerland},
  pages = {235--245},
  numpages = {11},
  url = {http://doi.acm.org/10.1145/115992.116014},
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  author = {Ioannidis, John and Duchamp, Dan and Maguire, Jr., Gerald Q.},
  title = {IP-based protocols for mobile internetworking},
  journal = {SIGCOMM Comput. Commun. Rev.},
  issue_date = {Sept. 1991},
  volume = {21},
  number = {4},
  month = aug,
  year = {1991},
  issn = {0146-4833},
  pages = {235--245},
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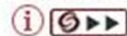
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```
@ARTICLE{103804,  
author={Duchamp, D. and Feiner, S.K. and Maguire, G.Q., Jr.},  
journal={Network, IEEE}, title={Software technology for wireless mobile computing},  
year={1991}, month={nov. }, volume={5}, number={6}, pages={12 -18},  
abstract={Some 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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## RIS format exported from IEEE Xplore<sup>®</sup> Digital Library

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JO - Network, IEEE  
TI - Software technology for  
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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 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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```
@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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```
@Article{,
```

```
author = {},
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title = {},
```

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journal = {},
```

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year = {},
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OPTkey = {},
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OPTvolume = {},
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OPTnumber = {},
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```
OPTpages = {},
```

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OPTmonth = {},
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OPTnote = {},
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```
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```

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TY - GEN  
ID - rfc1235  
L3 - citeulike-article-id:2777900  
TI - {Coherent File Distribution Protocol}  
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IS - 1235  
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KW - internet  
KW - networking  
KW - rfc  
AU - Ioannidis, J  
AU - Maguire, G  
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Document

One of the early protocols for multicast distribution of files was described in RFC 1235[1] by Ioannidis and Maguire. John Ioannidis 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 Ioannidis 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>



# Zotero + Word 2010: Modern Language Association (MLA) format

One of the early protocols for multicast distribution of files was described in RFC 1235 (Ioannidis and Maguire) by Ioannidis and Maguire. John Ioannidis 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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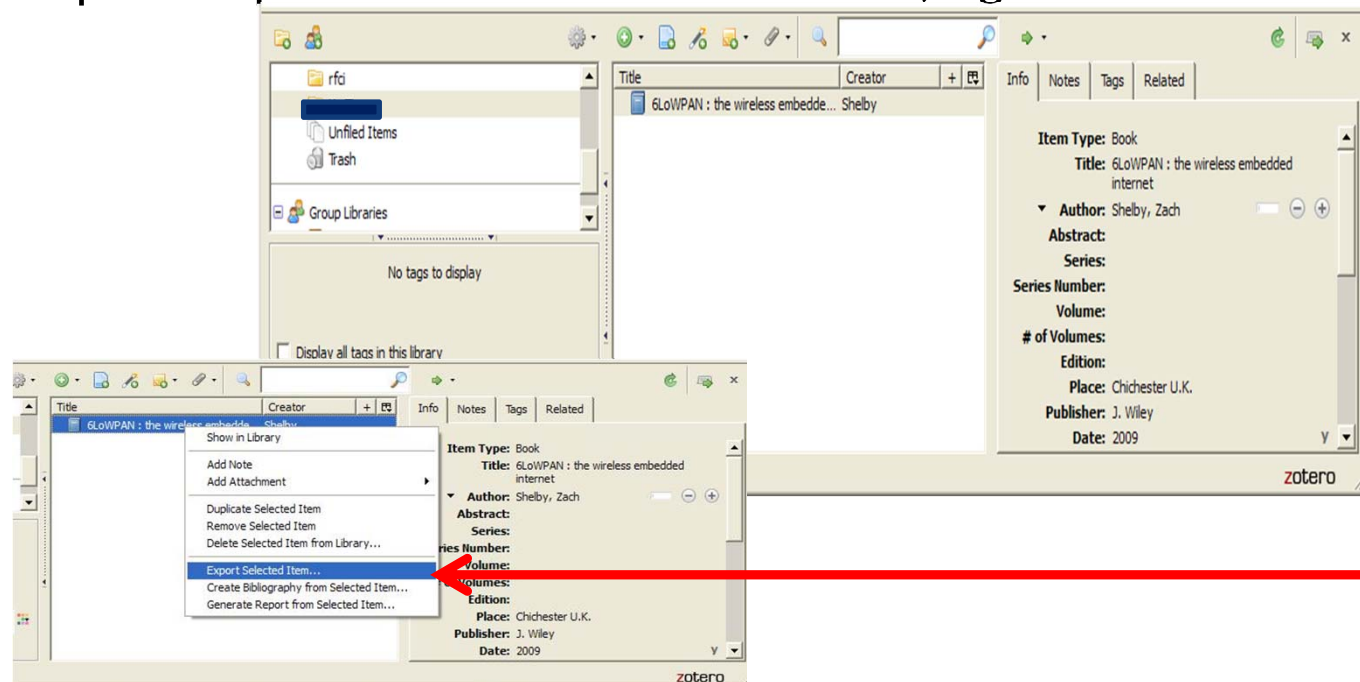
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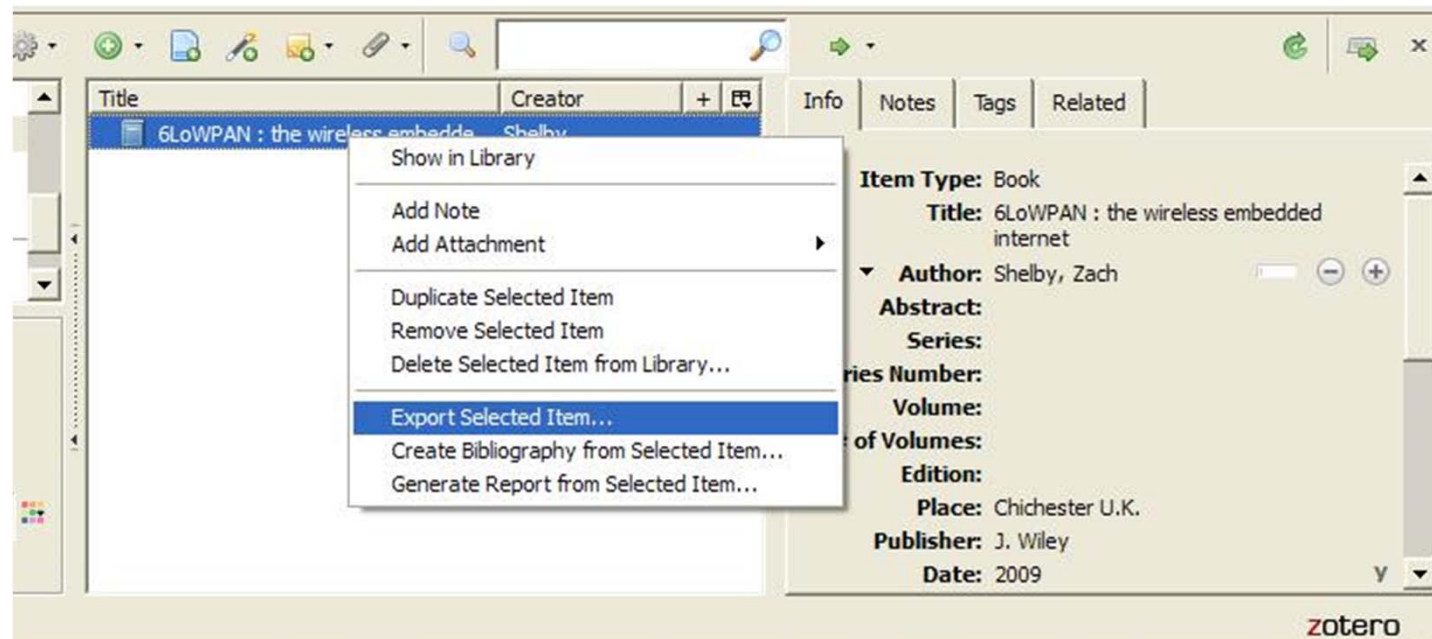


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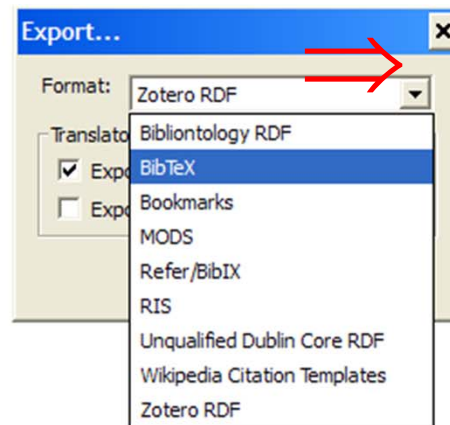


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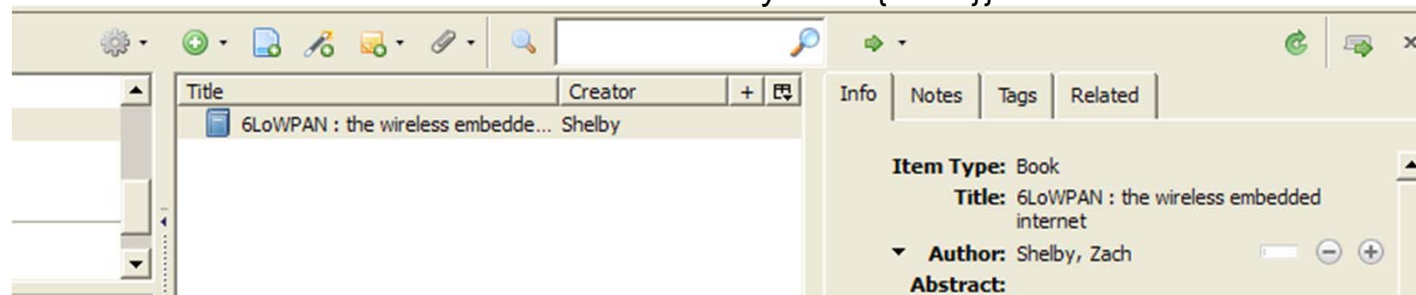
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@book{shelby_6lowpan_2009,  
  address = {Chichester {U.K.}},  
  title = {{6LoWPAN} : the wireless embedded  
internet},  
  isbn = {9780470747995},  
  shorttitle = {{6LoWPAN}},  
  publisher = {J. Wiley},  
  author = {Shelby, Zach},  
  year = {2009}}
```





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Jason Friedman describes how to use MozRepl to execute a Perl script that exports your references in BibTeX format

<http://www.curiousjason.com/zoterotobibtex.html>

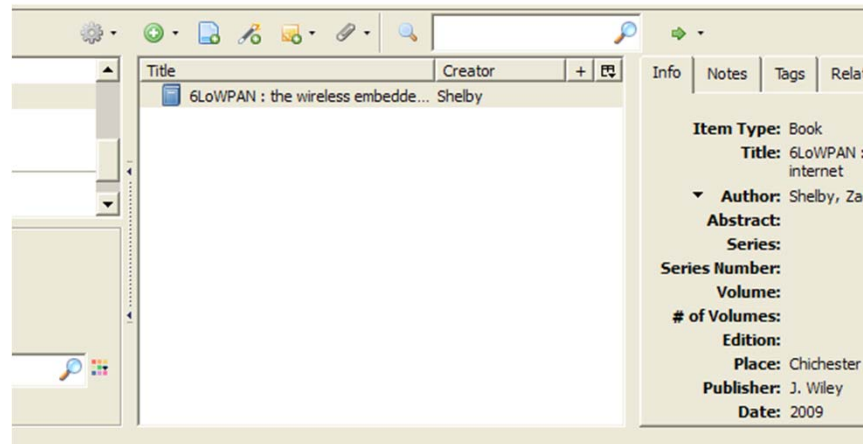
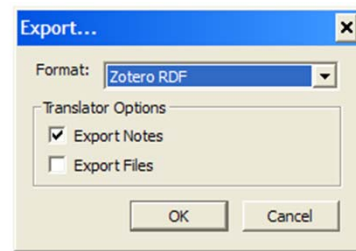
The same web page also describes how to change the key format that is used inside the export function to automatically generate keys for the references.

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[Method of multicast file distribution and synchronization](#)  
B Kumar - US Patent 6,269,080, 2001 - Google Patents  
US006269080B1 (12) United States Patent ao) Patent No.: us  
6,269,080 bi Kumar (45) Date of Patent: Jul. 31,2001 (54) METHOD OF **MULTICAST FILE DISTRIBUTION**  
AND SYNCHRONIZATION (75) Inventor: Brijesh Kumar, N. Delta (CA) (73) Assignee: ...  
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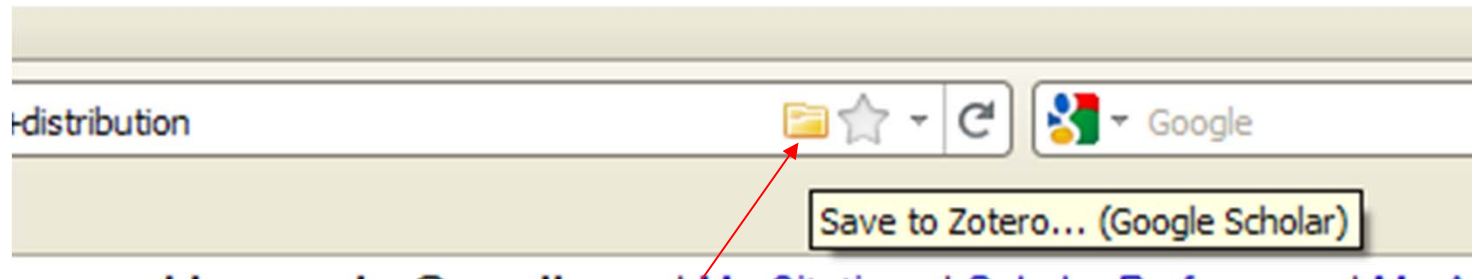
[Fcast multicast file distribution](#) [PDF] from psu.edu  
J Gemmell, J Gray... - Network, IEEE, 2000 - [ieeexplore.ieee.org](#)  
Reliable data **multicast** is problematic. ACK/NACK schemes do not scale to large audiences,  
and simple data replication wastes network bandwidth. Fcast, "file mul- ticastng," combines **multicast**  
with forward error correction to address both these problems. Like classic **multicast**, Fcast ...  
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L Cherkasova... - Proceedings of the 4th conference on ..., 2003 - [portal.acm.org](#)  
... It does not require any changes or modifications to the existing Internet infrastructure, and at the  
same time, it significantly reduces the **file** replication time as we demonstrate ... ATM and Satellite  
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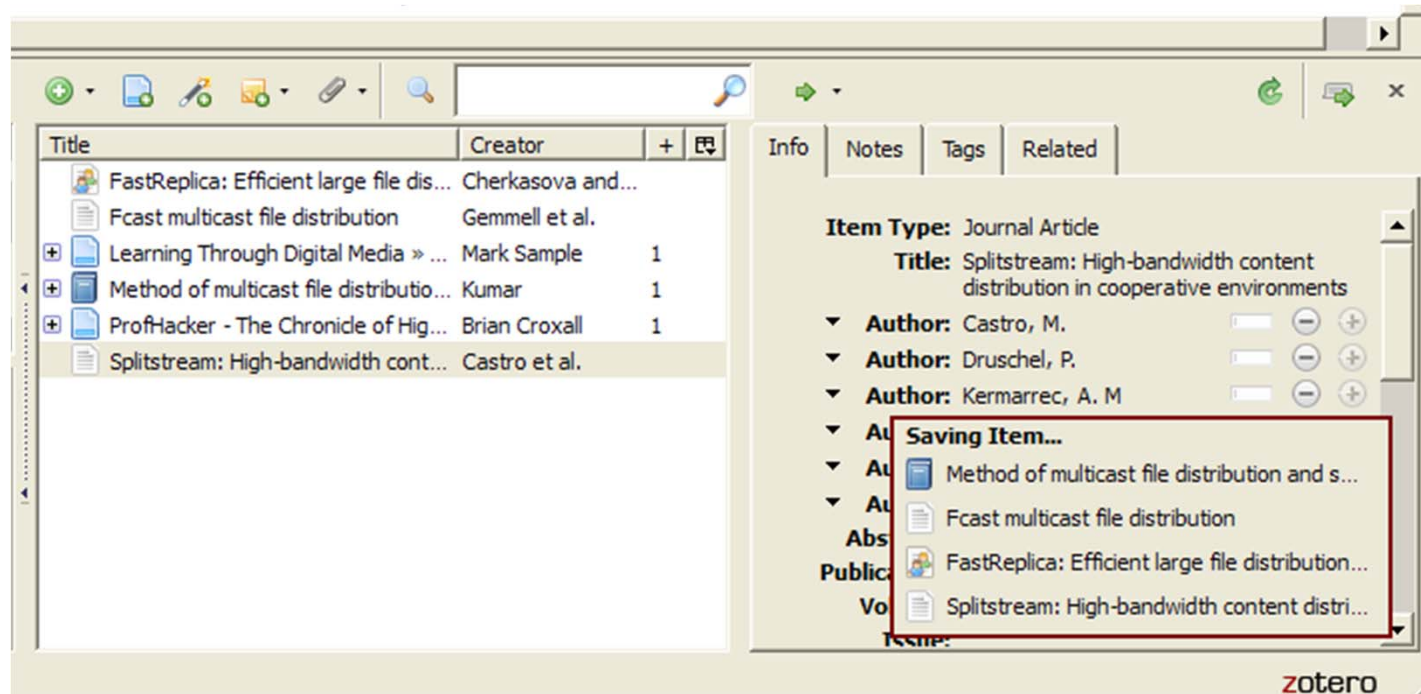
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Method of multicast file distribution and synchronization Brijesh Kumar

Overview  
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Drawing  
Description  
Claims

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Patent number: 6269080  
Filing date: Apr 13, 1999  
Issue date: Jul 31, 2001

(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**

(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

Perhaps this patent will be relevant to the project because of its use of file multicast.



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- Barcode: US006269080B1
- (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**
- (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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(12) **United States Patent**  
**Kumar**

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(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

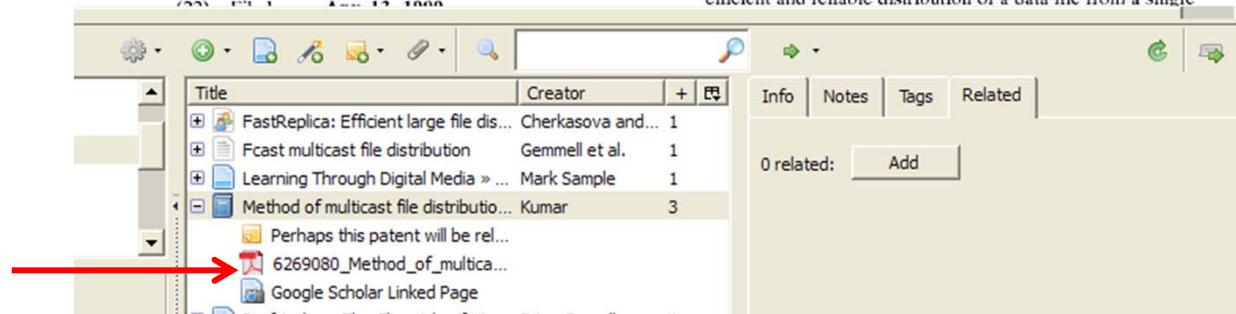
*Primary Examiner*—Ajit Patel

*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

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**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

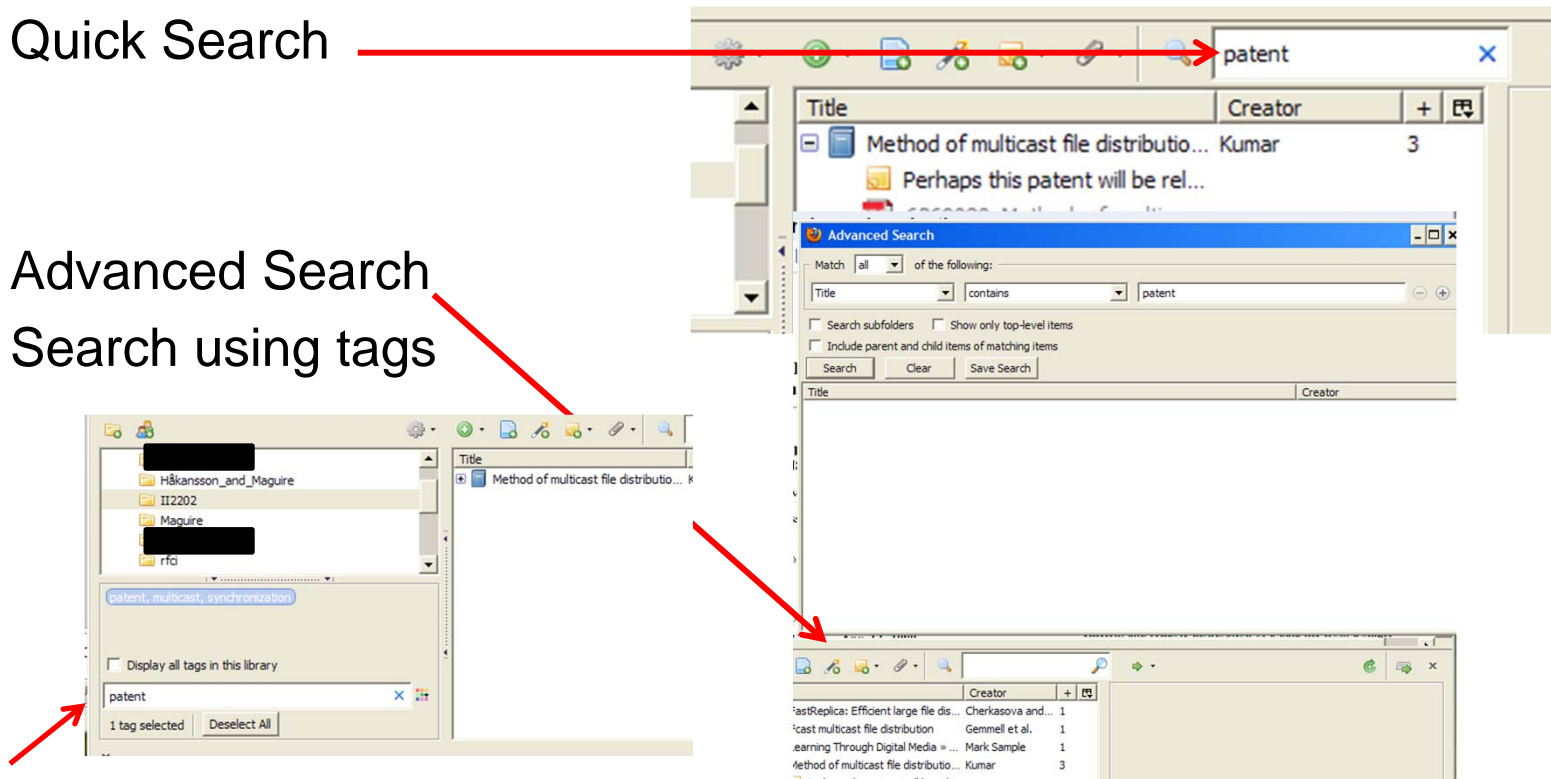
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Jönsson, Christian (FOI)  
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Zander, Jens (KTH, Superseded Departments, Signals, Sensors and Systems)  
Maguire Jr., Gerald Q. (KTH, Superseded Departments, Teleinformatics)

**Title:** Autoums Tactical Communications Possibilities and Problems

**Department:** KTH, Superseded Departments, Signals, Sensors and Systems  
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```
@article{Anderlind06,  
  author = {Anderlind, E. and Noz, E. and Sallnas, E. and Maguire, Gerald Q. and Lind, B},  
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  journal = {Radiotherapy and Oncology},  
  note = {QC 20100525},  
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  volume = {81},  
  year = {2006}  
}  
  
@article{Anderlind08,  
  author = {Anderlind, Eva and Noz, Marilyn E. and Salln{"a}s, Eva-Lotta and Lind, Beng},  
  institution = {KTH, Human - Computer Interaction, MDI},  
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*Journal of Computer Assisted Tomography*, Vol. 21, No. 4, (1997), pp. 554-568.  
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*Clinical cancer research : an official journal of the American Association for Cancer Research*, Vol. 4, No. 7, (July 1998), pp. 1679-1688.  
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# LIBRIS (libris.kb.se)

The screenshot shows the LIBRIS website interface. At the top, there is a navigation bar with the LIBRIS logo and links for HELP, PÅ SVENSKA, PREFERENCES, MY LIBRARIES, and CLEAR HISTORY. Below this is a secondary navigation bar with links for Start, Extended search, Index A-Ö, Boolean, Subdatabases, and Search history.

The main content area is divided into two columns. The left column is titled "Citations" and contains a section "Create reference of the selected record". This section lists three options: "Choose format", "Cut and paste", and "Click on Save as file". Below these options is a "Format" dropdown menu currently set to "Plain text". A list of "All formats" is shown, including Plain text, Harvard, Oxford, APA, Vancouver, .RIS, BibTex, RefWorks, Bokref/Tidskriftsref, and MARC-XML. A "Save as file" button is visible next to the list.

The right column is titled "Cut and paste" and displays the citation information for a selected record. The citation is: "Liu, George Y. - A survey of caching and prefetching techniques in distributed systems / George Liu and Gerald Q. Maguire. - 1994". Below this, the citation is shown in various formats: Harvard, Oxford, APA, Vancouver, RIS, and BibTex. The BibTex format is shown as: 

```
@book{Liu1994aso, author={Liu, George Y. and Maguire, Gerald Q.}, title={A survey of caching and prefetching techniques in distributed systems},
```



## 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

The screenshot shows a library interface with the following components:

- Left sidebar:** A tree view showing 'Unfiled Items', 'Trash', 'Group Libraries', 'KTH-II2202-Fall2011-Task1', and 'Håkansson\_and\_Maguire' (selected).
- Bottom-left panel:** A tag management area with the text 'No tags to display', a checkbox for 'Display all tags in this library', a search bar, and buttons for '0 tags selected' and 'Deselect All'.
- Main content area:** A table with columns 'Title' and 'Creator'.

Title	Creator
Coherent File Distribution Protocol	J. Ioannidis and ...
Getting it right: R. & D. methods fo...	Peter Bock
- Right panel:** A large empty area with the text 'No item'.



# My groups

Home My Library **Groups** People Documentation Forums Get Involved

[Home](#) > [Groups](#)

## Zotero Groups

[Browse All Groups](#) · [Search for Groups](#) · [Create a New Group](#)

### My Groups

#### **KTH-II2202-Fall2011-Task1**

[Group Library](#)

[Manage Profile](#) · [Manage Members](#) · [Manage Library](#)

**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

**Group Library** Enabled (Only members can view and edit)



# KTH-II2202-Fall2011-Task1

<https://www.zotero.org/groups/kth-ii2202-fall2011-task1>

The screenshot shows a web browser window with the URL <https://www.zotero.org/groups/kth-ii2202-fall2011-task1>. The browser's address bar shows the URL and search engines like Google. The page content includes the Zotero logo, a navigation menu with items like Home, My Library, Groups, People, Documentation, Forums, and Get Involved, and a search bar. The 'Groups' menu item is highlighted. Below the navigation, the breadcrumb path is 'Home > Groups > KTH-II2202-Fall2011-Task1'. The main heading is 'KTH-II2202-Fall2011-Task1'. There are links for 'Group Library' and 'Group Settings'. A 'Recently Added Items' section is visible. On the right side, there is a description: 'Some references that are used in the example Task1 project plan by Håkansson & Maguire.' and a list of details: 'Owner: [gqmaguirejr](#)', 'Registered: 2011-08-11', and 'Type: Public'. A blue 'Upgrade Storage' button is also present.

[Home](#) > [Groups](#) > KTH-II2202-Fall2011-Task1

## KTH-II2202-Fall2011-Task1

[Group Library](#) · [Group Settings](#)

### Recently Added Items

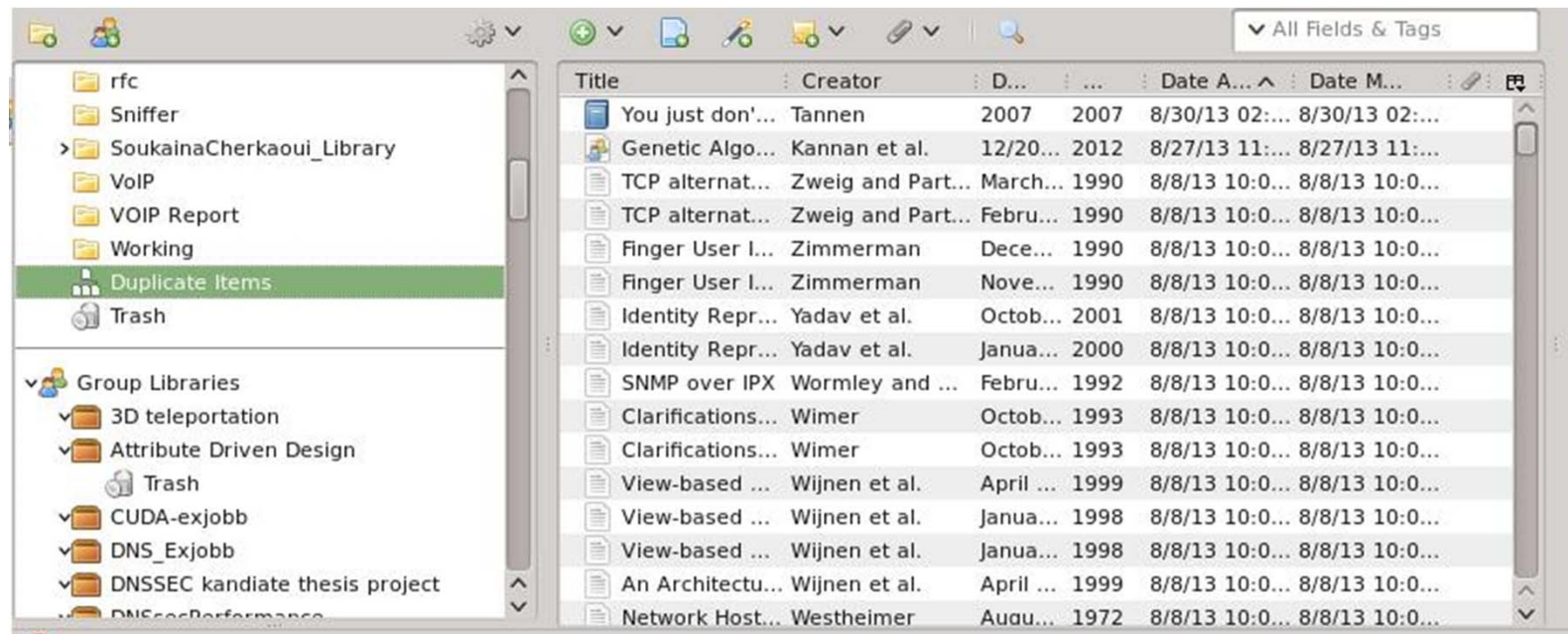
Some references that are used in the example Task1 project plan by Håkansson & Maguire.

- Owner: [gqmaguirejr](#)
- Registered: 2011-08-11
- Type: Public





## Zotero's Duplicate detection (a feature in development – be careful!)





## Endnote®

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](http://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](http://books.nap.edu/catalog.php?record_id=9853)



# Adding feeds to your web page

```
<H3> Talks/Publications </H3>
```

```
<p>Partial list of my publications by "maguire" <a href="http://kth.diva-portal.org/smash/searchlist.jsf?searchtype=postgraduate&author=maguire">via DiVA</a>. Another (and more accurate) way of doing this is  
<a href="http://kth.diva-portal.org/dice/table?query=+publicationTypeCode:article%20+authorId:u1d13i2c&start=0&rows=500&sort=year%20desc">Journal papers</a>,  
<a href="http://kth.diva-portal.org/dice/table?query=+publicationTypeCode:conferencePaper%20+authorId:u1d13i2c&start=0&rows=500&sort=year%20desc">Conference papers</a>,  
<a href="http://kth.diva-portal.org/dice/table?query=+publicationTypeCode:patent%20+authorId:u1d13i2c&start=0&rows=500&sort=year%20desc">patents</a>,  
and  
<a href="http://kth.diva-portal.org/dice/table?query=+publicationTypeCode:book%20+authorId:u1d13i2c&start=0&rows=500&sort=year%20desc">Books</a>.</p>
```

```
<P>A list of <a href="http://kth.diva-portal.org/smash/searchlist.jsf?searchtype=undergraduate&examiner=maguire">theses from DiVA for which I was the examiner</a>.</p>
```


```
<p>Or even fancier <a href="maguire-publications.php">here</a> and at researcherid.com  
<span id='badgeCont651269' style='width:26px'>  
<script  
src="http://labs.researcherid.com/mashlets?el=badgeCont651269& mashlet=badge&showTitle=false&className=a&rid=G-4584-2011&size=small"  
type="text/javascript"></script></span>.</p>
```



## Talks/Publications

Partial list of my publications by "maguire" [via DiVA](#). Another (and more accurate) way of doing this is [Journal papers](#), [Conference papers](#), [patents](#), and [Books](#).

A list of [theses from DiVA for which I was the examiner](#).

Or even fancier [here](#) and at researcherid.com .



# Resulting list of theses from DiVA

List of hits: Advanced search - student theses 1 - 250 of 411 1 2 > » Create reference >

Hits per page: 250

Author	Title	Organisation	Publication type	Year
<input checked="" type="checkbox"/> 1.	Secure Mobile Voice over IP	Microelectronics and Information Technology, IMIT	Student thesis	2003
<input type="checkbox"/> 2.	Accounting Management on a DTM Network	Teleinformatics	Student thesis	1999
<input type="checkbox"/> 3.	A Patient Identification System using RFID and IEEE 802.11b Wireless Networks	Communication Systems, CoS	Student thesis	2007
<input type="checkbox"/> 4.	Accelerating Adoption of IPv6	School of Information and Communication Technology (ICT)	Student thesis	2011
<input type="checkbox"/> 5.	Anonymous Authentication Using Secure Multi-Party Computations	School of Information and Communication Technology (ICT)	Student thesis	2011
<input type="checkbox"/> 6.	More than downloading: Toward a scale with wireless connectivity	Communication Systems, CoS	Student thesis	2012
<input type="checkbox"/> 7.	Telecommunication Services' Migration to the Cloud: Network Performance analysis	Communication Systems, CoS	Student thesis	2012
<input type="checkbox"/> 8.	Ophthalmic Diagnostics Using Eye Tracking Technology	School of Information and Communication Technology (ICT)	Student thesis	2012
<input type="checkbox"/> 9.	Motion Recognition: Generating real - time	School of Information	Student thesis	2011

ZI





# Creating a DiVA feed

The screenshot shows the KTH DiVA search interface. At the top, there are four tabs: "Simple search" (active), "Advanced search - research publications", "Advanced search - student theses", and "Statistics". Below the tabs, there are language options: "English", "Svenska", and "Norsk". A "Search help" link with a star icon is also present. The main search area contains a search input field, a "Search" button, and a "Clear" button. Below the search field, there are radio buttons for "All", "Research publications", and "Student theses", with "All" selected. There is also a checkbox for "Only documents with full text in DiVA". At the bottom of the search area, there are links: "Coming Theses >", "Browse >", and "Create feeds >". Below the search area, there is a paragraph: "KTH Publication Database DiVA contains publications produced by the university's researchers and students."



# Creating a DiVA RSS feed

Simple search    Advanced search - research publications    Advanced search - student theses    Statistics

« Back    English Svenska Norsk

FEEDS USING PARAMETERS    CREATE LINK FEEDS    HELP

**Format:**    RSS ▼

**Title:**   

**Publication type:**    Student thesis ▼

**Publication type 2:**    - ▼

**-Publication type:**    - ▼

**Organisation:**    School of Information and Communication Technology (ICT) ▼

**Series:**    - ▼

**Language:**    - ▼

**Publishing year:**    - ▼

**Available from:**    - ▼

**Public defence date:**    - ▼



# Creating a DiVA CSV feed

Simple search    Advanced search - research publications    Advanced search - student theses    Statistics

« Back    English Svenska Norsk

FEEDS USING PARAMETERS    CREATE LINK FEEDS    HELP

**Format:**    CSV all metadata ▾

**Title:**   

**Publication type:**    Student thesis ▾

**Publication type 2:**    - ▾

**-Publication type:**    - ▾

**Organisation:**    School of Information and Communication Technology (ICT) ▾

**Series:**    - ▾

**Language:**    - ▾

**Publishing year:**    - ▾

**Available from:**    - ▾

**Public defence date:**    - ▾



## Using a DiVA CSV feed URL

The screenshot shows a web browser window with the URL: `http://kth.diva-portal.org/dice/csvAll?query=+organisationId:5994%20+publicationTypeCode:studentThesis%20+year:[2000%20TO%20*]&start=0&rows=500&sort=author_sort%20asc`. Below the URL, there are controls for "Number of hits" (set to 500), "Sorting" (set to Names), and "Coming theses". A red arrow points from the browser window to a Firefox dialog box. The dialog box contains the following text: "You have chosen to open csvAll which is a CSV document from: http://kth.diva-portal.org". Under "What should Firefox do with this file?", there are three options: "Open with" (set to OpenOffice.org 3.3 Calc (default)), "Save File" (selected), and "Do this automatically for files like this from now on." (unchecked). The dialog box has "OK" and "Cancel" buttons.







# 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,  
  author = {Abad Caballero, Israel Manuel},  
  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. They 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 cc 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 in 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). Howe 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 säkerhetsme lte tänka på VoIPs säkerhet likt en kedja där inte någon länk, från säker uppkoppling till säker nedkoppling, får falla för att erhålla en säker p 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" (S 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 n ll exempel "Transport Layer Security" (TLS) för att säkra "Session Initiation Protocol" (SIP), SRTP för att skydda transporten av data och "Multime 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 implementatic Emellertid har en grundlig teoretisk undersökning genomförts, vilken innefattar andra aspekter såsom telefonsamtalets uppkoppling och nedkoppling (n och valet av passande nyckelhanteringsprotokoll (MIKEY) för att stödja SRTP.),  
  examiners = {Maguire Jr., Gerald Q.},  
  url = {http://urn.kb.se/resolve?urn=urn:nbn:se:kth:diva-93113}  
}
```



## 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



# References

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# ¿Questions?