Power-searching the “3-click” world

A federated search solution for clients at the University of Pretoria

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September 1, 2006
Agenda

- E-information strategy
- Client needs assessment
- Evaluation of Federated Search Engines & Link Resolvers
- Google Scholar & ScholarSFX
- Searching with Google Scholar
“Only librarians like to search; everyone else likes to find.”

- Roy Tennant -
E-Information Strategy

- Integrate online products & services with UP’s core processes
  - Contribute to international e-phenomenon
  - Support education innovation
  - Deliver optimal e-information portal services
- Maximise technology
- Enhance research & learning process
- Identify products to address client needs
Client Needs Assessment

• Needs assessment
  “a structured process of collecting and analyzing users’ assumptions, and the necessary or desired services to satisfy specific audiences” (Institute of Museum and Library Services 2003, p. 3)

• Specific needs identified
  – Libqual+™ Survey 2005
  – GAELIC 2005 Survey
  – “An analysis of the e-research needs of postgraduate students at higher education institutions”
The Net Generation

• “Growing up digitally” generation
• Multi-tasking
• Prefer Google to library searches
• Simple search interface (“Google”-like)
• Want speedy answers and full gratification immediately
• “Three clicks”
• Quality matters less than process
Distinguishing between Search Engines

Robot-driven for WWW pages

Federated Meta Search for e-Resources
+ Link Resolver

Desktop Search
Federated Search Engine

- Global search OR Meta Search OR Broadcast Search
- Same-time searches of different e-resources
- Single searchable point
- Blends:
  - E-journals, library catalogue, subscription databases, e-print collections, digital repositories, web pages
- Examples: MAPMetafind (Innovative), MetaLib (Ex Libris), SIRSI
Link Resolver

- Essential for optimal usage of Federated Search Engine & e-resources
- Connects references with full text
- Examples: WebBridge (Innovative), SFX (ExLibris)
Advantages

• Single one-stop searching point
• Save time
• Less training needed
• Immediate access to full text via link resolver
• Utilise very expensive databases
• Partially address client needs identified
Commercial Products

• ENCompass & LinkFinder Plus (Endeavor)
• SearchSolver & LinkSolver (Ovid)
• MetaLib & SFX (ExLibris)
• Knowledge Prism & Serial Solutions (WebFeat)
• MultiSearch & Linking Profile (CSA)
• SIRSI
• MAP Metafind & WebBridge (Innovative)
Importance of an Evaluation

- Ensure that objectives are met
- Identifying problems & weakness
- Evidence of benefits & impacts
- Securing funding
- Gain support of institutional managers
- Guide future plans
- Develop guidelines useful for other libraries
- Devising strategies to develop projects into services
- Position library

(UCE Birmingham Evidence Base 2006)
Evaluation Criteria

• Search functionality
  – *E.g. Broadcast searching, Boolean searching*
• Search results
  – *E.g. Limit results, Download results to bibliographic software*
• Interface features
  – *E.g. Help options, Customisable interface*
• User access
  – *E.g. Single sign-on, Secure login*
• Vendor support
  – *E.g. 24/7, Update frequency of knowledgebase*
Evaluation Instrument

- Expert Review Checklist
- Rating Scale
  - 4 = Excellent
  - 3 = Acceptable
  - 2 = Partially
  - 1 = Poor
  - 0 = Not available/ Cannot evaluate
- Very important criteria *
- Comments
Evaluation Process

• Participants from UP, UNISA, CSIR, WITS
• 19 – 21 October; 7 November 2005
• 7 sessions in total; 28 hours
• Each session:
  – Introduction & Live Internet Demo by Vendor
  – Q&A via telephone conferencing
  – Hands-on Session
• Acknowledgement
• Processing of data
• Feedback via e-mail & blog
Managing the Evaluation Process

FEDERATED SEARCH ENGINES AND LINK RESOLVERS
PROGRESS REPORTS OF MEMBERS OF THE WORKGROUP FOR FEDERATED SEARCHING AT THE ACADEMIC INFORMATION SERVICE, UNIVERSITY OF PRETORIA

TUESDAY, NOVEMBER 29, 2005

Google Scholar & ScholarSFX

Ex Libris has worked with Google and a number of SFX customers to ensure that Google Scholar search results display OpenURL links to SFX; and thereby to the scholarly peer-reviewed papers, theses, books, preprints and technical reports from your library collection. More info...

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PREVIOUS POSTS
Google Scholar & ScholarSFX
Solution

Federated Search Solution
Google Scholar™ & ScholarSFX™

Knowledge Base

Open URL

Link Resolver
ScholarSFX™

Federated Search Engine

Google Scholar™

Output/Results (fulltext)

University of Pretoria
eIFL Agreement

- GoogleScholar™ as a Federated Search Engine
- ScholarSFX™ as a **free** link resolver
- Also available for member institutions who purchased:
  - SFX (ExLibris)
  - Article Linker (Serials Solutions)
  - TOUResolver (TDNet)
  - LinkSource (EBSCO)
  - WebBridge (Innovative)
  - Sirsi Resolver (Sirsi)
  - 1Cate (Open Informatics)
  - Own link resolvers
About Google Scholar™

“Google Scholar provides a simple way to broadly search for scholarly literature. From one place, you can search across many disciplines and sources:

• Peer-reviewed papers,
• Theses;
• Books;
• Abstracts and articles, from academic publishers, professional societies, preprint repositories, universities and other scholarly organizations.”
Simple Search
Advanced Search
Subject Areas

☐ Return articles in all subject areas.

☒ Return only articles in the following subject areas:

☐ Biology, Life Sciences, and Environmental Science
☐ Business, Administration, Finance, and Economics
☒ Chemistry and Materials Science
☒ Engineering, Computer Science, and Mathematics
☐ Medicine, Pharmacology, and Veterinary Science
☐ Physics, Astronomy, and Planetary Science
☐ Social Sciences, Arts, and Humanities
**ScholarSFX™ links client to targets**

**Definition of a SFX “target”:**

“… an **information resource** or **service** which a … user can view when following a link from Google Scholar™ or an SFX menu”.

- **Free Full Text**, e.g. DOAJ, Free E-Journals
- **Aggregators**, e.g. Ovid, ScienceDirect
- **OPAC** (OCLC WorldCat)
- **Subscription e-Journals**
- **E-books**, e.g. Gutenberg-e, Books 24X7
- **Databases**, e.g. Silverplatter
Access full text within 3 clicks!

Accessible via Web Access Management Table (Innovative Product) @

http://0-scholar.google.com.innopac.up.ac.za
More info about the implementation of Google Scholar™ & ScholarSFX™ Instructions for use

http://0-scholar.google.com.innopac.up.ac.za

Links client to Google Scholar™ URL via WAM Table
Access: Authentication (outside library)

Password is required to view this page

Username: [REDACTED]

Your Surname, e.g., haupt

Student/Personnel number: [REDACTED]

Submit
Stand on the shoulders of giants

New! Find connections with related articles.

Google Home - About Google - About Google Scholar

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Look out for one of the following:

- **Library Search** – to holdings in catalogue

- **SFX@University of Pretoria** – to full text journal articles
"Combining qualitative and quantitative methods information systems research: a case study" - University of Pretoria
... validation of a quality management framework, Information ... system implementation study:
management commitment to project management, Information and ...
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... sexually transmitted disease case management in rural South Africa: randomized controlled trial - group of 4
A. Harrison, S. A. Karim, K. Floyd, C. Lombard, M. Lurie, ... - AIDS, 2000 - aidsonline.com
... All remaining costs were sourced from detailed project expenditure files. ... At baseline, the quality of STD case management was similarly poor in both ...
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... Tolerances of Selected Macroinvertebrates of the Sabie River, Kruger National Park, South Africa - group of 4
P. A. Goetsch - Archives of Environmental Contamination and Toxicology, 1997 - Springer
Title: "Combining qualitative and quantitative methods information systems research: a case study"

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Author(s): Kaplan, Bonnie; Duchon, Dennis

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Combining Qualitative and Quantitative Methods in Information Systems Research: A Case Study

Abstract
This article reports how qualitative and quantitative methods were combined in a longitudinal, multidisciplinary study of interactions between perceptions of work and a computer information system. The study describes the present outcomes and contributions stemming from different research perspectives and methodological approaches. It illustrates how methodological points (1) the nature of combining qualitative and quantitative methods, (2) the need for context-specific measures of job characteristics rather than exclusive reliance on standard context-independent instruments, (3) the importance of process measures when evaluating information systems, and (4) the need to explore the relationships between a computer system and the perceptions of users, are better understood in a complex organization than in a unidimensional assessment of computer system characteristics and computer system implementation.

Despite the important points raised in this study, the most important conclusion is the desirability for a variety of approaches to studying information systems. No one approach to information systems research can provide the richness that information systems, as a discipline, needs for further advancement.

Introduction
Information systems has its origins in a variety of disciplines without distinct theoretical research perspectives. This article describes a study that combined some of these distinct perspectives and methods. The article discusses how limitations of one research perspective can be addressed by using an alternative. This emphasis reflects the lesser use of computer system characteristics in the research of computer systems researchers than in the research of computer system characteristics.

The discussion of perspectives provides background for understanding the process and methods of this research. Following the discussion,

Keywords: Methodology, research methods, research perspectives, qualitative methods, interpretative methods, computer system characteristics, organizational variables, work, mental and health care applications

ACM Categories: K.4.3, H.5.3, J.2

1 This paper was presented at the Ninth Annual International Conference on Information Systems, Minneapolis, MN, November 20-December 3, 1986.

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Page 1. IJOPM 20,10 1218 International Journal of Operations & Production Management,
Vol. 20 No. 10, 2000, pp. 1218-1235. # MCB University Press, 0144-3577 ...
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4 No 3, pp 129-134, Waller, DL (1999), Operations Management: A Supply Chain
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by Derek L Waller
ISBN: 1861524153

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Some handy uses of Google Alerts include:

- monitoring a developing news story
- keeping current on a competitor or industry
- getting the latest on a celebrity or event
- keeping tabs on your favorite sports teams

Create an alert with the form on the right.

You can also sign in to manage your alerts.
Implications

- Guide Google-users back to valuable high quality library resources
- Increase library presence
- Effective Internet search strategies
- Evaluate quality of resources
- Skills of information specialists
- Evaluation of Google Scholar™/ScholarSFX™
Getting up and running

Register with ExLibris

Customize access

Activate Targets

Tell & show clients!

Ongoing activation & marketing
Setting up a ScholarSFX™ Account

http://www.exlibrisgroup.com/scholar_sfx.htm

or google Scholar SFX
Adapt or die …

“Offering [metasearching] as an option will not deny our students the choice of using a specific database and advanced features.

But refusing to offer that option will deny them an alternative that may suit their needs better than database-by-database searching.”

- James Rettig, Univ of Richmond -
Conclusion

Google is probably here to stay. Our students love it! So we decided: If you can’t beat them, join them with Google Scholar and Scholar SFX combined!
Bibliography


Thank you!

Questions?

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WANNA... Google.com?