

VuFind – open-source discovery tool

Mumit Khan
BRAC University
January 5-6, 2011

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Topics

- Day 1 Morning
 - Discovery Tools: an Introduction
 - VuFind
- Day 1 Afternoon
 - VuFind integration with existing catalogs
 - Hands on VuFind
- Day 2 Morning
 - VuFind integration with existing catalogs
 - Hands-on VuFind
- Day 2 Afternoon
 - Wrapup

Part I

INTRODUCTION TO DISCOVERY TOOLS

The Process

Typical process in using library materials:

1. Discover
2. Locate
3. Request
4. Deliver

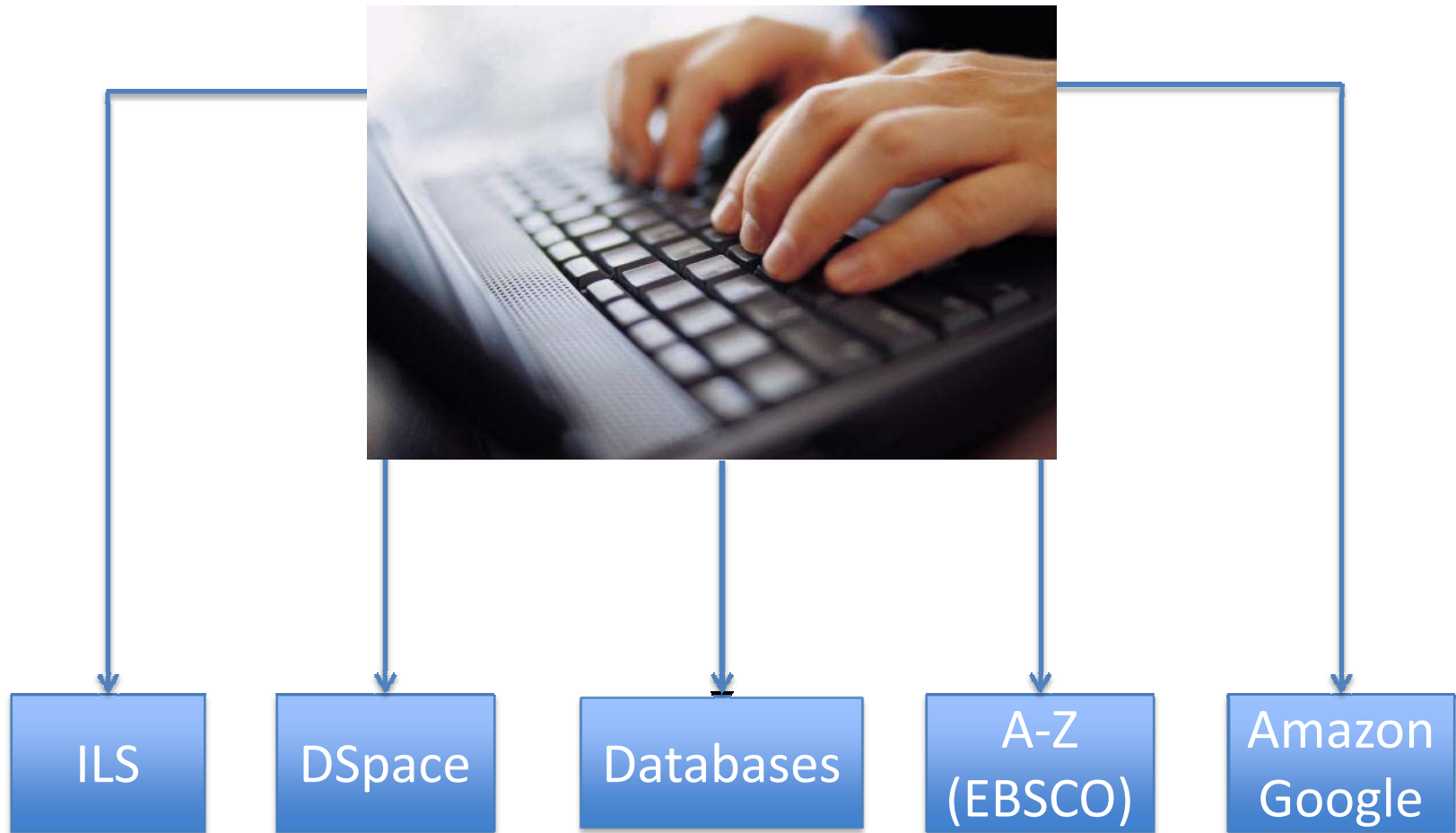
Traditionally, *discovery* and *location* have been tied to each other in the catalog.

The Information Explosion

- Library physical holdings
- Digital repository
- Electronic journals
 - Many many different databases
- Amazon, Google, Google Scholar, LibraryThing, ...
- Web and other e-resources

Information Silos, each with its search interface!

The Information Explosion



The Information Explosion



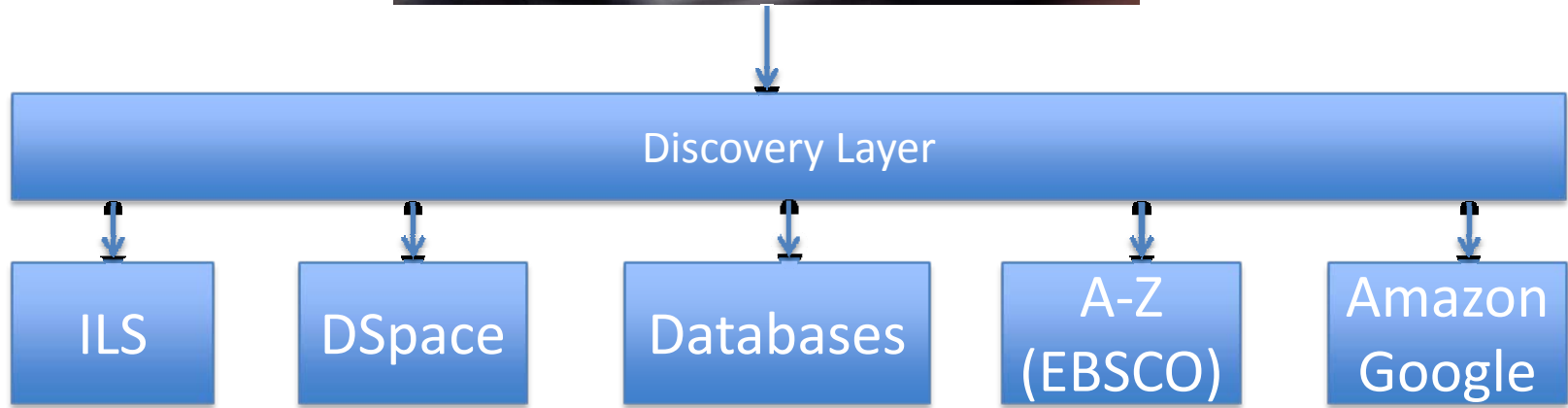
Information Silos

- Each catalog an island, with its own interface
- Discovery interfaces or tools solve a key part of the problem
- What do users want?

“Discover, not find”

“Information, not location”

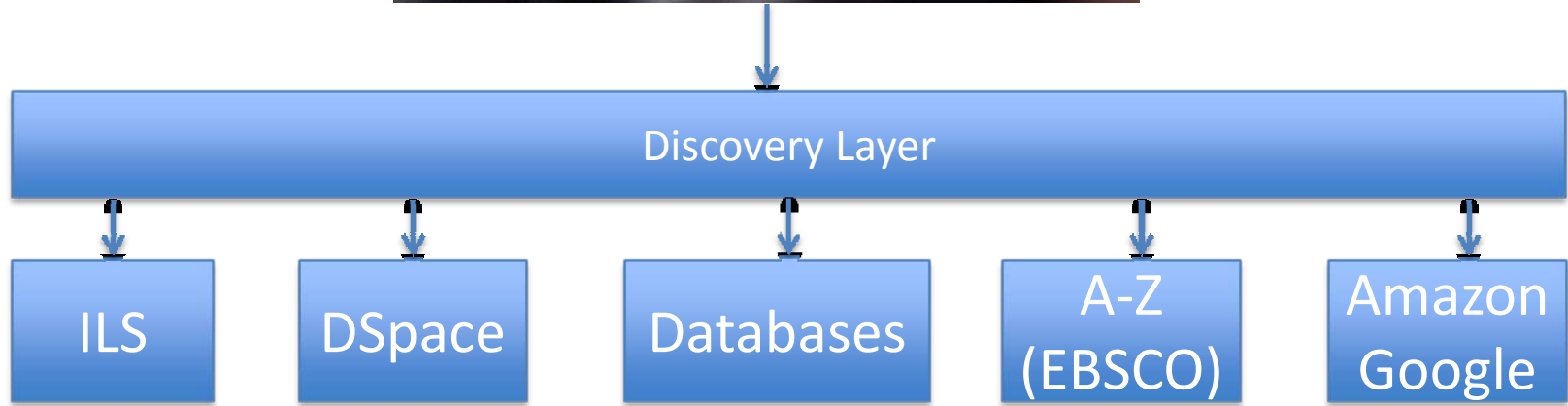
Eliminate the Silos



Eliminate the Silos



1 SEARCH!



Goal

- Develop **web portal** to perform research activities:

Library Catalog	Institutional Bibliography
Article Databases (and other local library catalogs)	Institutional Repository
Digital Library	Many other resources...

- Create **1 single interface** for all library resources to minimize interface learning curve!

Discovery Interfaces

- Single, consistent interface to **discover**, not **find**, resources
- Not tied to a single catalog or a resource type
- Key innovations – **faceted search**, **Web 2.0** or social features (tags, reviews, comments, etc), full-text (licensed content, open access archives), “simple” user interface
- **“Google” for the libraries?**

Social discovery

- Tags, user-supplied ratings and reviews
- Leverage social networking interactions to assist readers in identifying interesting materials: **BiblioCommons**
- Leverage use data for a recommendation service of scholarly content based on link resolver data: **Ex Libris bX service**

Part II

SURVEY OF EXISTING DISCOVERY TOOLS

Discovery Tool Explosion - Commercial

- Encore, Innovative Interfaces
- Primo, Ex Libris
- AquaBrowser Library, Medialab Solutions
- Visualizer, VTLS
- Summon, Serials Solutions
- EBSCO Discovery Service, EBSCO
- Enterprise, SirsiDynix
- BiblioCommons
- WorldCat Local, WorldCat

Discovery Tool Explosion - Open Source

- VuFind, Villanova University (initially)
- Blacklight, University of Virginia
- SOPAC, Darien Public Library, Connecticut
- eXtensible Catalog Project, University of Rochester (under development)

AquaBrowser

- Developed by Medialab Solutions
- **Search, Discover, Refine**
- **Still the market leader?**
- <http://www.serialssolutions.com/aquabrowser/>
- <http://boss.library.okstate.edu/default.ashx/>
- <http://lens.lib.uchicago.edu/>
- <http://discovery.lib.harvard.edu/>



Search

Advanced search

My Discoveries

show word cloud

Lens is a next generation search tool for Library resources.

It automatically expands queries, checks for alternate spellings, and sorts results by relevance.

Facets let you browse search results by format, author, topic and more.

Use the advanced search when you know exactly what you're looking for.

**Catalogs**

Library Catalog
Lens Search
Help Using Lens

Articles

Help finding
articles
E-Journals
Database Finder

Can't Find It?

WorldCat
Interlibrary Loan
Suggest a
Purchase

My Accounts

My Accounts
Chalk

Get Help

How do I find...?
Research Guides
Ask a Librarian

powered by AquaBrowser Library®



Enter your query here

Search

Advanced search

My Discoveries

show word cloud

Lens is a next generation search tool for Library resources.

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Facets let you browse search results by format, author, to

Use the advanced search when you know exactly what you're looking for.

Simple search box

Word cloud



Catalogs

Library Catalog
Lens Search
Help Using Lens

Articles

Help finding articles
E-Journals
Database Finder

Can't Find It?

WorldCat
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Suggest a Purchase

My Accounts

My Accounts
Chalk

Get Help

How do I find...?
Research Guides
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Enter your query here

Search

Advanced search

My Discoveries

Discover

Author



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[Library Catalog](#)
[Lens Search](#)
[Help Using Lens](#)

Articles

[Help finding articles](#)
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Can't Find It?

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My Accounts

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Association
Spelling variation
Translation
Thesaurus term
Discovery trail



algorithm

Search

Advanced search

My Discoveries

Discover

Author



Association
 Translation
 Discovery trail
 Spelling variation
 Thesaurus term

Results 1 – 25 of 7,683 for **algorithm**, sorted by: relevance – [link to this result page](#)

[Print](#)

[RSS](#) [FEEDS](#)

Your query has been expanded with: [Algorithms \(subject\)](#)

Your query: **algorithm**



1. Algorithm synthesis : a comparative study / D.M. Steier, A.P. Anderson.
Steier, D. M.
New York : Springer-Verlag, c1989.

Found: algorithm (1) algorithms (1)
Eckhart QA9.58.S740 1989

[» Save or tag...](#)



2. The advent of the algorithm : the idea that rules the world / David Berlinski.
Berlinski, David, 1942–
New York : Harcourt, c2000.

Found: algorithm (1) algorithms (1)
Regenstein, A-Level Harper QA9.58 .B47 2000
Collection

[» Save or tag...](#)



3. Algorithm engineering : 3rd International Workshop, WAE'99 London, UK, July 19–21, 1999 : proceedings / Jeffrey S. Vitter, Christos D. Zaroliagis, eds.
International Workshop on Algorithm Engineering (3rd : 1999 : London, England)
New York : Springer, 1999.

Lecture notes in computer science 1668
Found: algorithm (8) algorithms (5)
Eckhart QA76.9.A43I59 1999

[» Save or tag...](#)



4. Algorithm engineering : 5th International Workshop, WAE 2001, Aarhus, Denmark, August 28–21, 2001 : proceedings / Gerth Stølting Brodal, Daniele Frigioni, Alberto Marchetti–

Refine

▼ Format

- [Book \(7,552\)](#)
- [E-Resource \(2,708\)](#)
- [Ebook \(2,634\)](#)
- [Library Website \(56\)](#)
- [Dissertations \(54\)](#)
- [8 more...](#)

▼ Author / Creator

- [SpringerLink \(Online service\) \(1,476\)](#)
- [Steffen, Bernhard \(136\)](#)
- [Mattern, Friedemann \(134\)](#)
- [Kittler, Josef \(133\)](#)
- [Vardi, Moshe Y \(133\)](#)
- [13,048 more...](#)

▼ Topic / Genre

- [Congresses \(2,883\)](#)
- [Computer science \(1,491\)](#)
- [Computer software \(1,236\)](#)
- [Algorithm Analysis and Problem Complexity \(1,156\)](#)
- [Algorithms \(885\)](#)
- [3,860 more...](#)

▼ Language

- [English \(7,485\)](#)
- [German \(50\)](#)
- [French \(49\)](#)
- [Russian \(34\)](#)
- [Italian \(9\)](#)

lens.lib.uchicago.edu

algorithm

Search

Advanced search

My Discoveries

Discover

Author

Narrow
searchResults 1 – 25 of 7,683 for **algorithm**, sorted by: relevance – link to this result page[Print](#)[RSS](#) [FEEDS](#)

Your query has been expanded with: Algorithms (subject)

Your query: algorithm



1. **Algorithm synthesis : a comparative study** / D.M. Steier, A.P. Anderson.
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algorithm (1) algorithms (1)
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[Save or tag...](#)

2. **The advent of the algorithm : the idea that rules the world** / David Berlinski.
Berlinski, David, 1942–
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Collection

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3. **Algorithm engineering : 3rd International Workshop, WAE'99 London, UK, July 19–21, 1999 : proceedings** / Jeffrey S. Vitter, Christos D. Zaroliagis, eds.
International Workshop on Algorithm Engineering (3rd : 1999 : London, England)
New York : Springer, 1999.

Lecture notes in computer science 1668
Found: algorithm (8) algorithms (5)
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4. **Algorithm engineering : 5th International Workshop, WAE 2001, Aarhus, Denmark, August 28–21, 2001 : proceedings** / Gerth Stølting Brodal, Daniele Frigioni, Alberto Marchetti–

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complexity
network
datum
model
proceedings
computation
bioinformatics
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architectures
algorithm
theory
workshop
randomized
approximation
computer
optimization
foundations
structure
computational
algorithm
algorithmen

Association
Translation
Discovery trail
Spelling variation
Thesaurus term



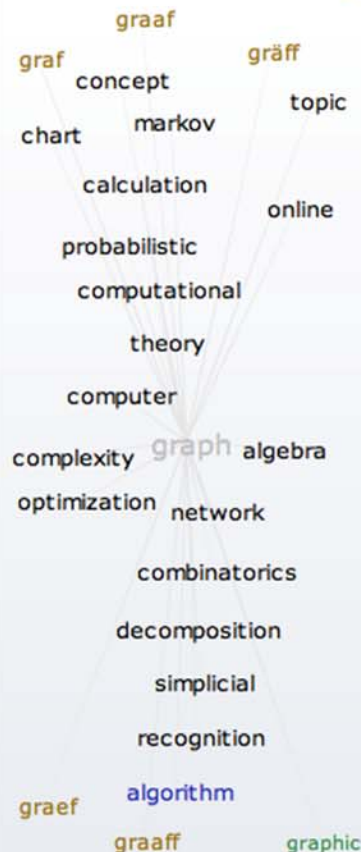
Search

[Advanced search](#)

[My Discoveries](#)

Discover

Author



☐ Association
☐ Translation
☐ Discovery trail
☐ Spelling variation
☐ Thesaurus term

Results 1 – 25 of 5,279 for **graph**, sorted by: - [link to this result page](#)

[Print](#)

[RSS](#) [FEEDS](#)

Your query: **graph**



1. Graph algorithms / Shimon Even.

Even, Shimon.
Potomac, Md. : Computer Science Press, c1979.
Computer software engineering series

Found:

Eckhart

[Save or tag...](#)



2. Graph algorithms and applications 5 editors, Giuseppe Liotta, Roberto Tamassia, Ioannis G. Tollis.

Singapore ; Hackensack, N.J. : World Scientific, c2006.

Found:

Online

[Full text online](#)

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3. Graph algorithms and applications 4 editors, Giuseppe Liotta, Roberto Tamassia, Ioannis G. Tollis.

Singapore ; Hackensack, N.J. : World Scientific, c2006.

Found:

Online

[Full text online](#)

[Save or tag...](#)



4. Graph theory for programmers : algorithms for processing trees / by Victor N. Kasyanov and Vladimir A. Evstigneev.

Kas'ianov, V. N. (Viktor Nikolaevich)
Dordrecht ; Boston : Kluwer Academic, c2000.
Mathematics and its applications (Kluwer Academic Publishers) ; 515.

Refine

Format

- [Book \(3,940\)](#)
- [E-Resource \(983\)](#)
- [Map \(931\)](#)
- [Ebook \(927\)](#)
- [Library Website \(281\)](#)
- [12 more...](#)

Author / Creator

- [Geological Survey \(U.S.\) \(318\)](#)
- [Chopin, Frédéric, 1810-1849 \(106\)](#)
- [SpringerLink \(Online service\) \(102\)](#)
- [Historic Urban Plans \(Firm\) \(39\)](#)
- [United States. Central Intelligence Agency \(39\)](#)
- [7,912 more...](#)

Topic / Genre

- [Congresses \(1,444\)](#)
- [Maps \(809\)](#)
- [Graph theory \(457\)](#)
- [Computer science \(233\)](#)
- [Data processing \(209\)](#)
- [5,001 more...](#)

Language

- [English \(4,365\)](#)
- [German \(170\)](#)
- [French \(128\)](#)
- [Russian \(79\)](#)
- [Chinese \(62\)](#)
- [41 more...](#)

Blacklight

- From University of Virginia.
- Design goals:
 - Relevance ranking.
 - Faceted browsing.
 - Ability to include “siloes” materials.
 - Customizable interfaces for different user groups.
 - “Re-mixable data.”
- Web site: <http://blacklightopac.org/>
- Live catalog: <http://blacklight.betech.virginia.edu/>

Blacklight

- <http://www.lib.virginia.edu/digital/resndev/blacklight.html>
- <http://blacklight.rubyforge.org/>
- <http://forward.library.wisconsin.edu/>
- <http://searchworks.stanford.edu/>

Stanford University Libraries

SearchWorks

Access

At the Library (5,808,660)
Online (891,052)

Format

Book (5,740,428)
Journal/Periodical (295,206)
Microformat (271,404)
Conference Proceedings (193,164)
Thesis (108,975)
Music - Recording (93,210)
Other (87,618)
Music - Score (83,491)
Map/Globe (59,729)
Video (46,268)
Manuscript/Archive (12,460)
Newspaper (5,394)
Computer File (3,646)
Sound Recording (3,474)
Image (3,079)

Call Number

Location

Language



Search 6,452,111 resources in Stanford's libraries



Search

Advanced Search

Select multiple facets and combine search terms across multiple fields

Looking for Articles?

Articles are not included in SearchWorks yet.

- See [Databases A-Z](#) to find the best database(s) to search for your topic.
- Try [xSearch](#) to search several databases at once.

Course Reserves

- Search the [Course Reserves Catalog](#) for print, media and e-resources set aside for classes.

Can't find it at Stanford?

- Request it through [interlibrary borrowing](#).
- [Ask us to purchase it](#) for the libraries.

SearchWorks News

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Thu, 18 Nov 2010 14:03:39

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Stanford University Libraries

SearchWorks

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At the Library (5,808,660)
Online (891,052)

Format

- Book (5,740,428)
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- Newspaper (5,394)
- Computer File (3,646)
- Sound Recording (3,474)
- Image (3,079)

Call Number

Location

Language

Search 6,452,111 resources in Stanford's libraries

Search

[Advanced Search](#)

Select multiple facets and combine search terms across multiple fields

Resource categories

Simple search box

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SearchWorks News

[See all SearchWorks news](#)

[Search by Call Number, and an update to Subject links](#)

Thu, 18 Nov 2010 14:03:39

algorithm

Search

Advanced search

SearchWorks

Start Over



Your Search: algorithm

Limited to: (no limits selected)

Selected items (none)

[< Previous](#) | 1 - 20 of 10270 results | [Next >](#)

Sort by relevance



20 per page

Refine your search

Access

At the Library (8,816)

Online (2,862)

Format

Book (10,154)

Microformat (902)

Conference Proceedings (715)

Thesis (511)

Journal/Periodical (43)

Other (12)

Music - Recording (9)

Video (6)

Manuscript/Archive (3)

Music - Score (3)

Computer File (1)

Map/Globe (1)

Author

Publication Year

1. Algorithms [electronic resource].

Published: 2008

Online: [Find full text](#)

Format: Journal/Periodical

2. Algorithms : ISA ... International Symposium on Algorithms : proceedings

Meeting: International Symposium on Algorithms.

Published: 1990s

At the Library: SAL3 » Stacks » QA76.9.A43 I73 2ND 1991

Online: link.springer.de

Format: Conference Proceedings

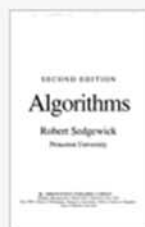
3. Algorithms

Author/Creator: Sedgewick, Robert, 1946-

Published: 1988

At the Library: Engineering » Stacks » QA76.6 .S435 1988

Format: Book



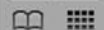
4. Algorithms

Author/Creator: Horabin, Ivan S.

Topic

[< Previous](#) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | ... | [Next >](#)

At the Library: SAL3 » Stacks » QA63 .H67



algorithm

Search

Advanced search

SearchWorks

<< Start Over

Your Search: algorithm
Limited to: (no limits selected)

Selected items (none)

<< Back to Search Results

< Previous | 3 of 10,270 | Next >

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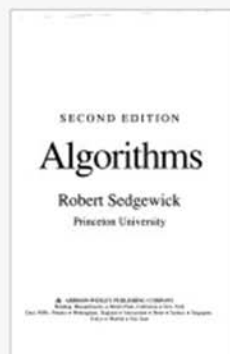
Related E-Resources

- More about this book at Google Books

Browse by call number: QA76.6 .S435 1988

Proceedings SHARE European Association. Spring Meeting SAL3 » QA76.6 .S433 1987B V.1	1987	
Proceedings SHARE Europe. Spring Meeting (1989 : Vienna) SAL3 » QA76.6 .S433 1989 V.1	1989	
Algorithms Sedgewick, Robert, 1946- Engineering » QA76.6 .S435 1988	1988	
Quicksort Sedgewick, Robert, 1946- Engineering » QA76.6 .S44 1980	1980	
Selected reprints in software SAL3 » QA76.6 .S446 1987	1987	
< Previous	Show full page	Next >

Algorithms / Robert Sedgewick.



Author/Creator: Sedgewick, Robert, 1946-

Language: English

Imprint: 2nd ed. - Reading, Mass. : Addison-Wesley, 1988.

Format: Book
xii, 657 p. : ill. ; 25 cm.

Bibliography: Includes bibliographies and index.

Subjects: Algorithms.

ISBN: 9780201066739
0201066734

At the Library

Engineering - Stacks

? QA76.6 .S435 1988
? QA76.6 .S435 1988

Other libraries



Find it at other libraries via WorldCat

Catkey: 1684700

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Encore (III)

- Developed by Innovative Interfaces (CA, USA)
- <http://encoreforlibraries.com/>
- <http://encore.wellesley.edu>
- <http://encore.catalog.gvsu.edu>

Encore

←

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+

http://encore.wellesley.edu/iii/encore/home?lang=eng

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BRAC University

31

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Results 1 - 25 of 112 for algorithm

1 2 3 4 5 next

 (1 - 47) Most Relevant

Summary

32

Encore -- algorithm

http://encore.wellesley.edu/iii/encore/search/C%7CAlgorithm%7COrightrresult%7CU1?lang= Google

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Search: **algorithm** 

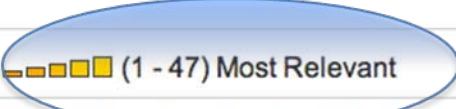
 Explore Related Searches Classic Catalog

Results 1 - 25 of 112 for algorithm

Sorted by Relevance | Title | Date 1 2 3 4 5 next

Refine by:

- ▼ Availability
 - At the library (111)
 - Online (82)
- ▼ Search Found In
 - Title (61)
- ▼ Format
 - E-BOOKS (82)
 - BOOKS (27)
 - MANUSC/LANG (3)
- ▼ Collection
 - Online/electronic (82)
 - Reference (1)
 - Art Library (1)
 - Science Library (17)
- ▼ Location
 - Art Library (1)
 - Art Reserve (4)
 - Clapp Library (8)
 - Science Library (17)
- ▼ Language
 - English (112)
- ▼ Publish Date
 - 2010 (12)
 - 2009 (12)

 (1 - 47) Most Relevant

Pearls of functional algorithm design [electronic resource] / Richard Bird
Bird, Richard, 1943-
Full text available from Ebook Library
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Recent Advances in Harmony Search Algorithm [electronic resource]
Geem, Zong Woo Author
Full text available from SpringerLink ebooks - Engineering (2010)
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Algorithm Engineering [electronic resource] / Matthias Müller-Hannemann, Stefan Schirra
Matthias Müller-Hannemann, Stefan Schirra
Full text available from SpringerLink (2010)
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Catalysis, God's Algorithm, and the Green Demon [electronic resource]
Rothenberg, Gadi Author
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Other Sources:

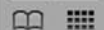
-  Show 612
-  Show 105213

Refine by Tag:

- algebra
- algorithms
 - artificial satellites in telecommunication
- bioinformatics
- biology
 - cluster analysis
 - combinatorial optimization
- computer algorithms
 - computer architecture
 - computer network protocols
- computer networks
 - computer
- computer science data

Social networking – tags!

BRAC University

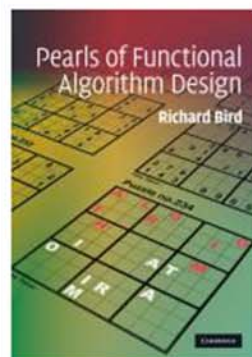
Search: 

Classic Catalog

Wellesley College Library
encore

Searched: algorithm

Your results:



Pearls of functional algorithm design [electronic resource] / Richard Bird



Add a Tag

Full text available from Ebook Library

▼ More Details

Author Bird, Richard, 1943-
 Imprint New York : Cambridge University Press, 2010
 Descript. p. cm
 Note License restrictions may limit access

"Richard Bird takes a radically new approach to algorithm design, namely, design by calculation. These 30 short chapters each deal with a particular programming problem drawn from sources as diverse as games and puzzles, intriguing combinatorial tasks, and more familiar areas such as data compression and string matching. Each pearl starts with the statement of the problem expressed using the functional programming language Haskell, a powerful yet succinct language for capturing algorithmic ideas clearly and simply. The novel aspect of the book is that each solution is calculated from an initial formulation of the problem in Haskell by appealing to the laws of functional programming. Pearls of Functional Algorithm Design will appeal to the aspiring functional programmer, students and teachers interested in the principles of algorithm design, and anyone seeking to master the techniques of reasoning about programs in an equational style"-- Provided by publisher

"The novel aspect of the book is that each solution is calculated from the problem statement by appealing to the laws of functional programming. Pearls of Functional Algorithm Design will appeal to the aspiring functional programmer, students and teachers interested in the principles of algorithm design, and anyone seeking to master the techniques of reasoning about programs in an equational style"-- Provided by publisher

Subject Functional programming (Computer science)
 Computer algorithms

Publishers# 9780521513388 (hardback)

Contents Machine generated contents note: Preface: 1. The smallest free number: 2. A



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AlgorithmAlgorithm
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God's
Algorithm,
and the
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DemonMusic-
Inspired
Harmony
Search
Algorithm

Encore -- Pearls of functional algorithm design [electronic resource] / Richard Bird

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Search: Classic Catalog

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Imprint	New York : Cambridge University Press, 2010
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Subject: [Functional programming \(Computer science\)](#)
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Little Boy Adventure Stories: Books by manz
Somewhat adventure-based books (with male protagonists) that I enjoyed, that I'd file under "little boy adventure story."

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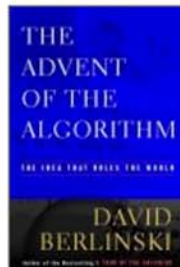
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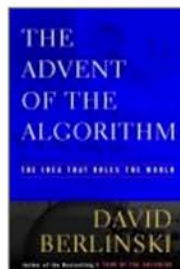
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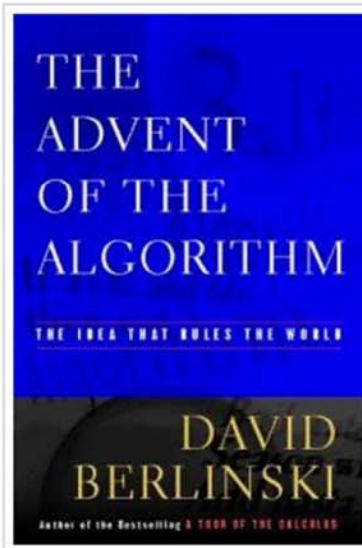


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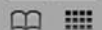
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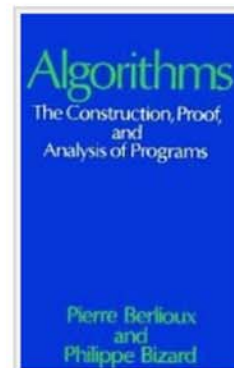
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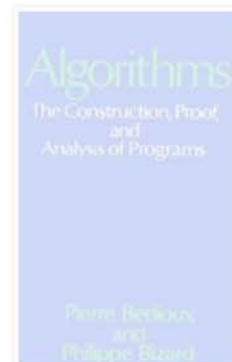
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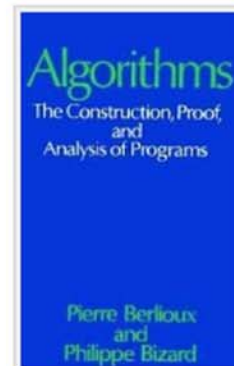
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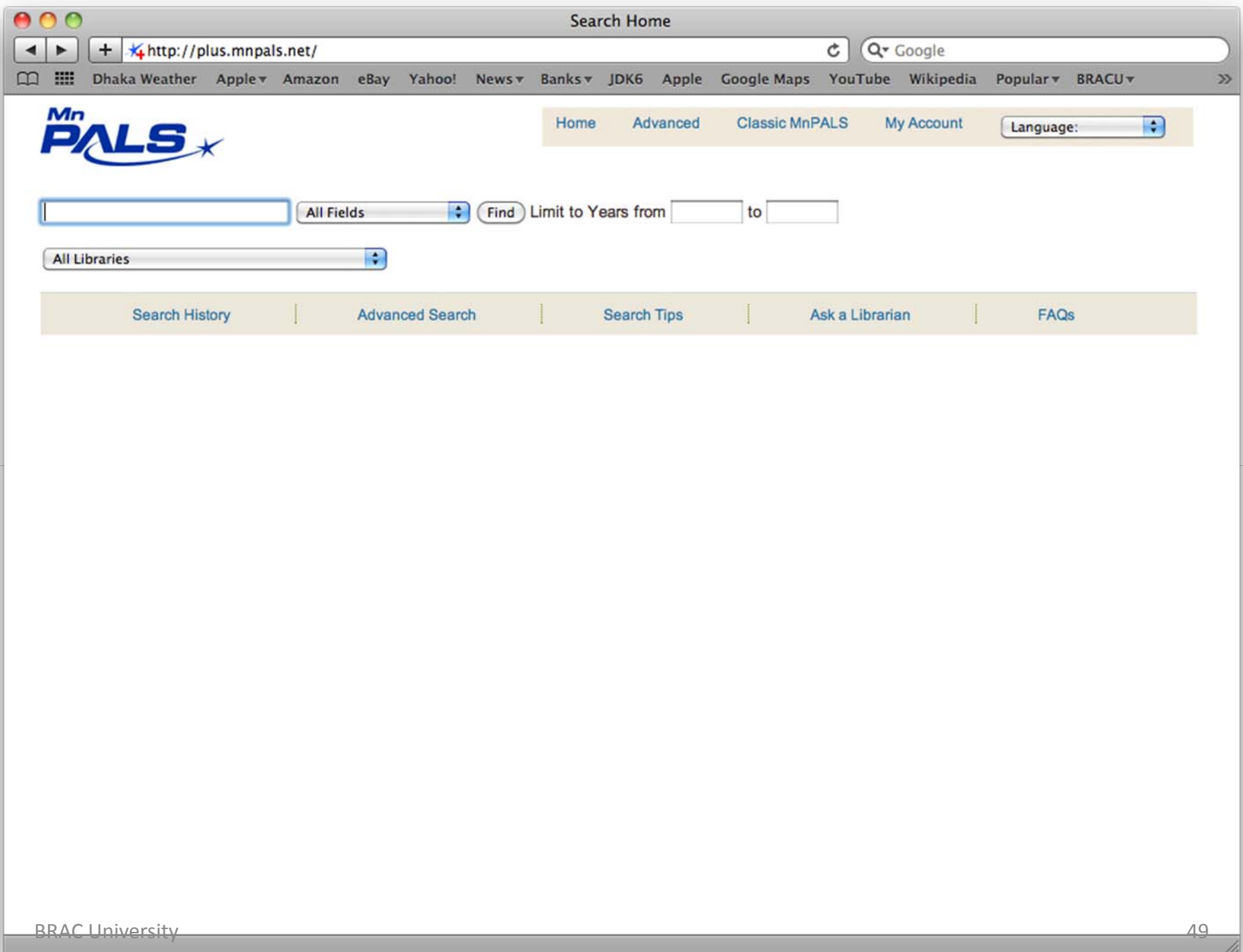
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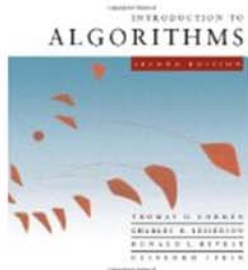
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Thomas H. Cormen ... [et al.].



Other Authors: [Cormen, Thomas H.](#)
 Language: English
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 Edition: 2nd ed.
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Web scale discovery

- ▶ Indexing the full corpus of information available globally
 - ▶ Or at least major portions
- ▶ Google aims to address all the world's information
 - ▶ Not quite comprehensive – partial harvesting of any given resource
- ▶ Discovery Layer Products for libraries aim to address all content collected by libraries:
 - ▶ Print
 - ▶ Remotely access electronic content: e-journals, e-books, databases, licensed and open access.
 - ▶ Local special collections: digital and print.
- Addresses the comprehensive body of content held within library collections
- Comprehensive, unified

Deep indexing

- Entering post-metadata search era
- Increasing opportunities to search the full contents
 - Google Library Print, Google Publisher, Open Content Alliance, government publications, etc.
 - High-quality metadata will improve search precision
- Commercial search providers already offer “search inside the book” and searching across the full text of large book collections
- Not currently available through library search environments
- Deep search highly improved by high-quality metadata

See: Systems Librarian, May 2008 “Beyond the current generation of next-generation interfaces: deeper search”

Discovery product Trend

- Initial products focused on technology
 - AquaBrowser, Endeca, Primo, Encore, VuFind
 - Mostly locally-installed software
- Current phase focused on pre-populated indexes that aim to deliver Web-scale discovery
 - Summon (Serials Solutions)
 - WorldCat Local (OCLC)
 - EBSCO Discovery Service (EBSCO)
 - Primo Central

Summon

- Developed by Serials Solutions
- New Discovery Service – initial libraries now in production
- Consolidated index harvested from many sources
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Relevance



Algorithms: Sanjoy Dasgupta, Christos Papadimitriou, Umesh Vazirani



Author: Dasgupta, Sanjoy; Vazirani, Umesh Virkumar; Papadimitriou, Christos H
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Availability: AVAILABLE, Baker Berry Cook

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Author: Berg, Mark de and Meyer, Ulrich, Dipl.-Ing Corporate Author: SpringerLink (Online service)
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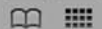
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Algorithms: Sanjoy Dasgupta, Christos Papadimitriou, Umesh Vazirani



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Algorithms: Sanjoy Dasgupta, Christos Papadimitriou, Umesh Vazirani

Authors: Dasgupta, Sanjoy; Vazirani, Umesh Virkumar; Papadimitriou, Christos H

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Imprint Boston : McGraw-Hill Higher Education, c2008.

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- Repository of article-level indexes maintained and hosted by Ex Libris
- Available to Primo sites without additional cost
- Move more content from metasearch to local index

EBSCO Discovery Service

- Agreement with OCLC for WorldCat data
- EBSCO Host interface and content
- Content from other publishers and providers

WorldCat Local discovery service

- Existing service in pilot stage for new discovery service
- WorldCat.org data + ArticleFirst (30 million articles)
- Agreement with EBSCO to load EBSCOhost citation data into WorldCat
- Pursuing agreements with additional content providers

WorldCat Local quick start

- No-cost option to FirstSearch subscribers
- No reclamation to reconcile local ILS with WorldCat
- One ILS supported; must be among supported products
- Program to expose thousands of libraries to WorldCat Local as a discovery option

Part III

INTRODUCTION TO VUFIND

What is VuFind?

- Resource Discovery Portal
- An ILS enhancement – not replacement
- Developed at Villanova – Andrew Nagy & Chris Barr
- Released 2007
- Open Source & free
 - No support fees
 - No initial cost (other than time)
- Runs on Apache SOLR – very fast, open source search engine
- Customizable/brandable Interface - html templates
- Runs on a wide variety of platforms (e.g. Linux)

The Basics

- Built on **Apache Solr**, an enterprise scale search engine
- Connects to your ILS for **live status** information
- Completely **customizable** interface
- Strong **online support**
- and it's **Open Source!**

Features

- **Faceted results**
 - Search, then refine ...
 - Multiple categories – format, author, topic (LC Subj.), era, genre, subject area (call number), language, region
- **Similar Items**
 - “More Like This” suggestions
 - Algorithm to generate list
 - At record level
- **Persistent URLs**
 - Bookmarkable, can be embedded
 - For records & queries
- **Records**
 - Sorts - relevance, date, call number, author, title
- **Citation management**
 - APA & MLA now available
 - EndNote & Refworks files (Nat'l Library of Australia)
- **Automatic Spelling Suggestions**

Features (continued)

- **Web 2.0**
 - Tagging
 - Whenever someone adds a favorite in VuFind and gives it a tag for their own organization, that tag is added to the public record
 - Requires participation of MANY
 - LibraryThing connection possible
 - Save to Favorites
 - Save, organize & retrieve lists
 - Texting/emailing records/results
 - Comments
 - RSS feeds for live updates
 - Author biographies possible (mash-up from Wikipedia)
 - Reviews (Amazon, Syndetics) possible
 - Book covers (Amazon, Google Books with link-out)

Searching

- **One interface to search multiple “collections”**
 - Catalog, repository, subject guides, library web site, NTIS full-text document server, finding aids
 - Log-in at point of entry to restricted resources
 - Crosswalks needed for some
- **One Box – Basic Search**
 - Field choices
- **Multiple Boxes - Advanced Search**
 - Multiple fields and terms
 - Limits
 - Format
 - Language
 - Illustrations
- **Faceted Browsing**
 - iTunes like interface
 - By topic, author, genre, era, etc.

Search Options

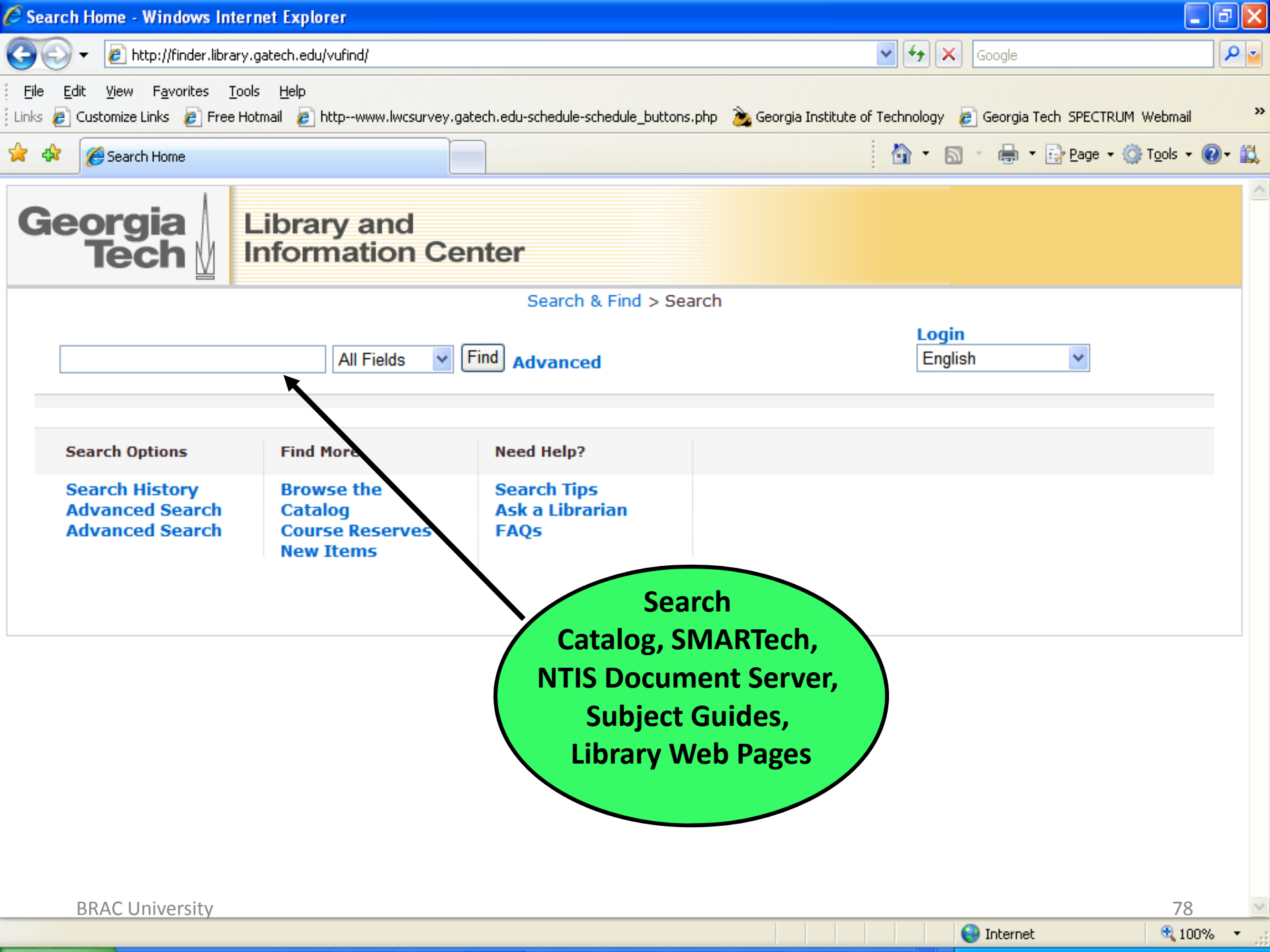
- **GOOD**
 - **Wildcards**
 - ? For single character
 - * for 0 or more characters
 - **Boolean** (AND, OR, NOT)
 - **Google-like + and – options**
 - + = must have term
 - - = must not have term
 - **Phrase searching** (“chaos theory”)

Search Options (continued)

- BAD
 - **Booleans** must be in CAPS
 - AND, OR, NOT
 - **Default** without an operator is OR
 - Bangladesh Cricket ----- you get the idea!

Search Options (continued)

- UGLY
 - **Fuzzy Searches**
 - For similar terms
 - Math~
 - **Proximity Searches**
 - Use the tilde ~ symbol at the end of a **Multiple** word Term
 - “heavy metal” cadmium~5
 - **Range Searches**
 - {2000 to 2008} great notion, just not intuitive!



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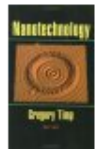
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Goonan, Kathleen Ann. (2)
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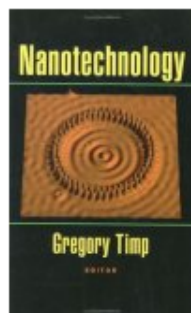
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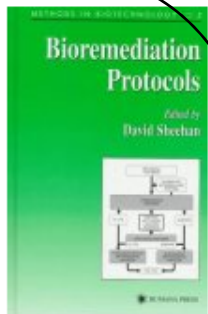
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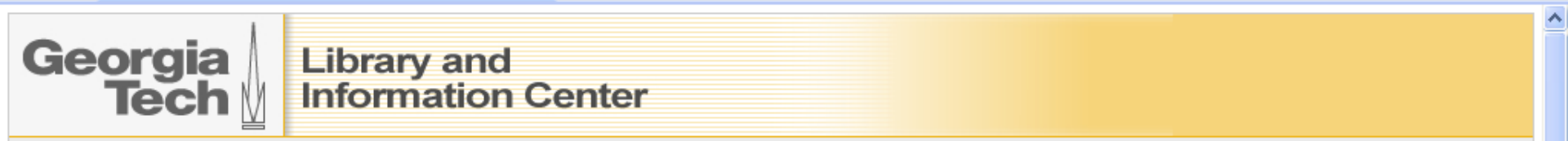
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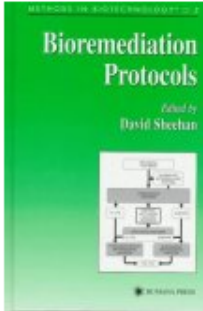
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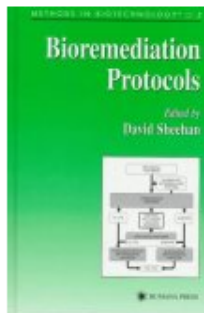
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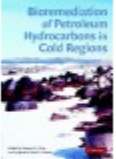
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Bib ID 4324353

Format Book

Publisher Cambridge : Cambridge University Press, 2008.

Description xxiv, 273 p. : ill. ; 26 cm.

ISBN 9780521869706 (hbk.) : 0521869706 (hbk.) :

Notes Includes bibliographical references (p. 231-263) and index.

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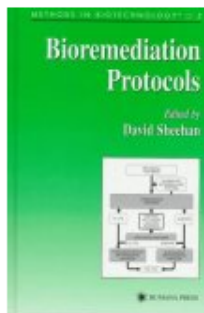
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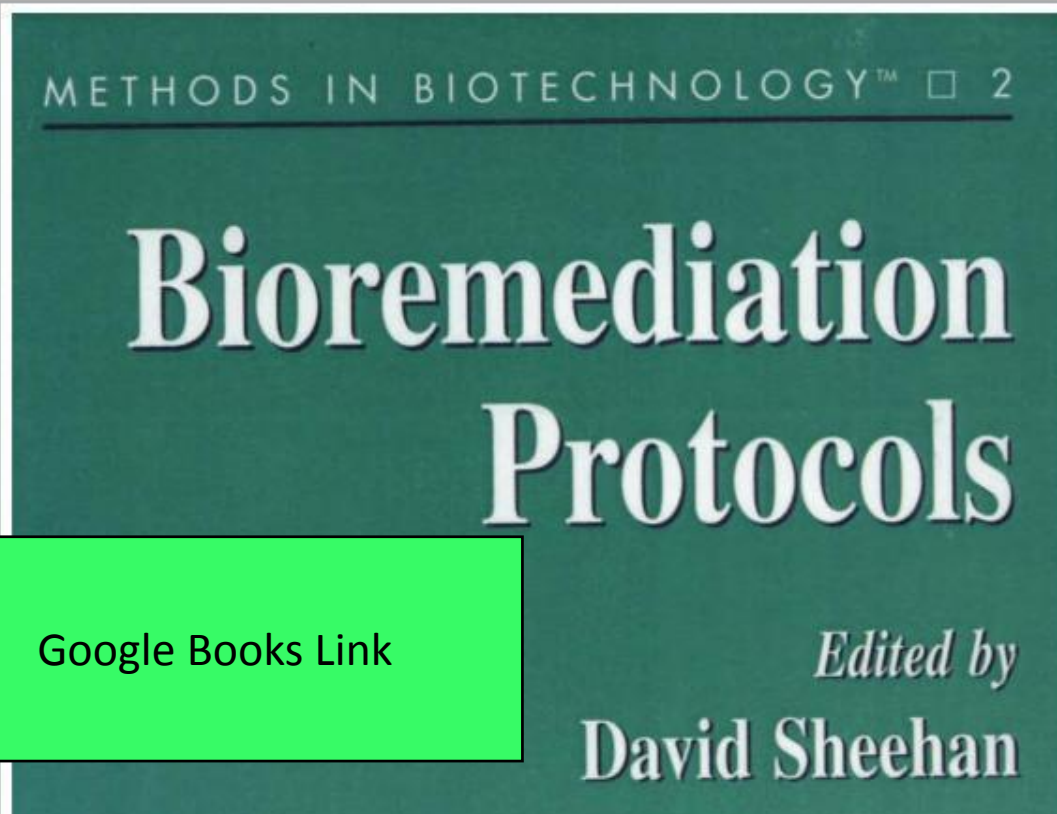
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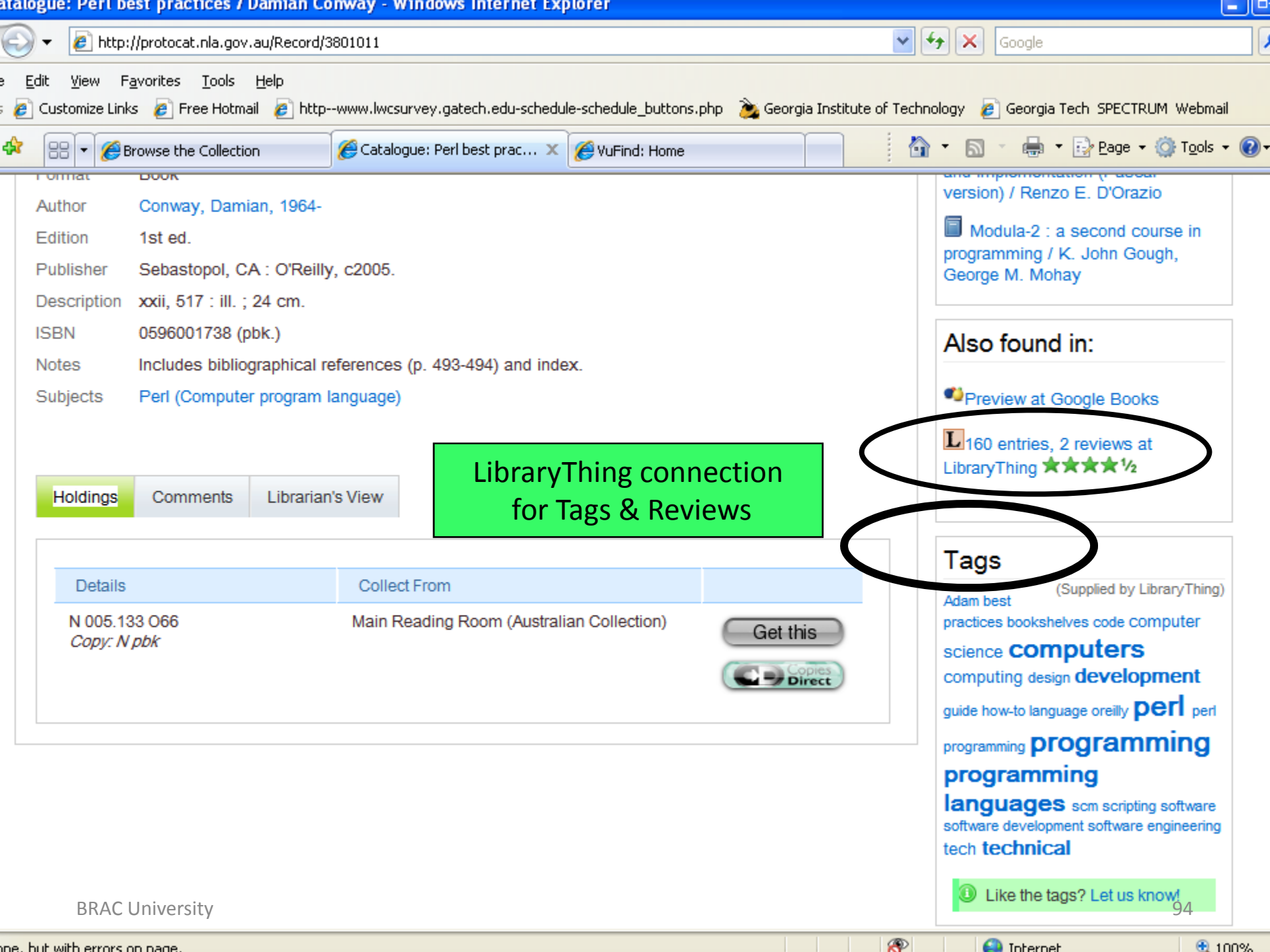
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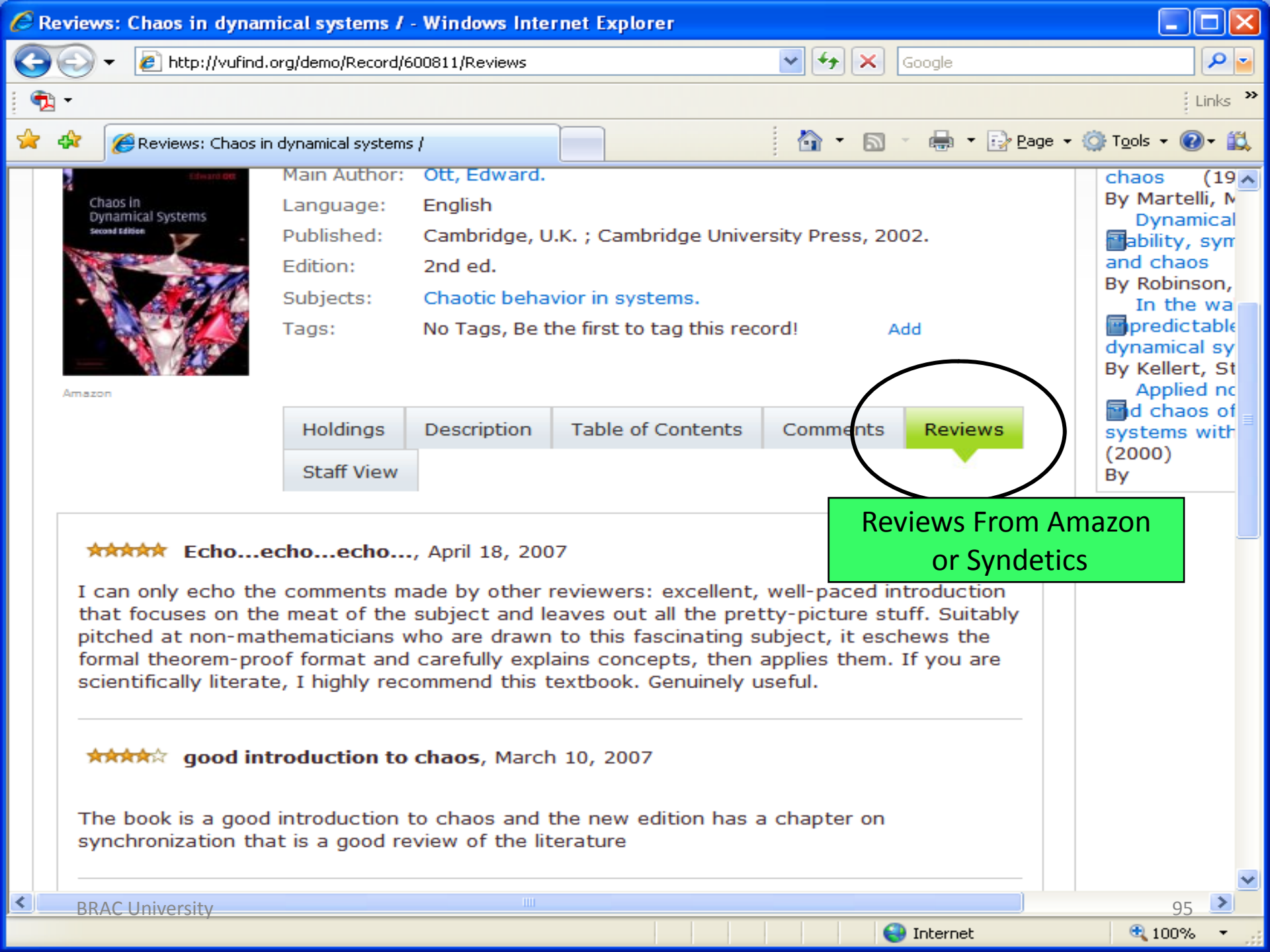
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Main Author: [Ott, Edward.](#)
Language: English
Published: Cambridge, U.K. ; Cambridge University Press, 2002.
Edition: 2nd ed.
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★★★★★ **Echo...echo...echo...,** April 18, 2007

I can only echo the comments made by other reviewers: excellent, well-paced introduction that focuses on the meat of the subject and leaves out all the pretty-picture stuff. Suitably pitched at non-mathematicians who are drawn to this fascinating subject, it eschews the formal theorem-proof format and carefully explains concepts, then applies them. If you are scientifically literate, I highly recommend this textbook. Genuinely useful.

★★★★☆ **good introduction to chaos,** March 10, 2007

The book is a good introduction to chaos and the new edition has a chapter on synchronization that is a good review of the literature

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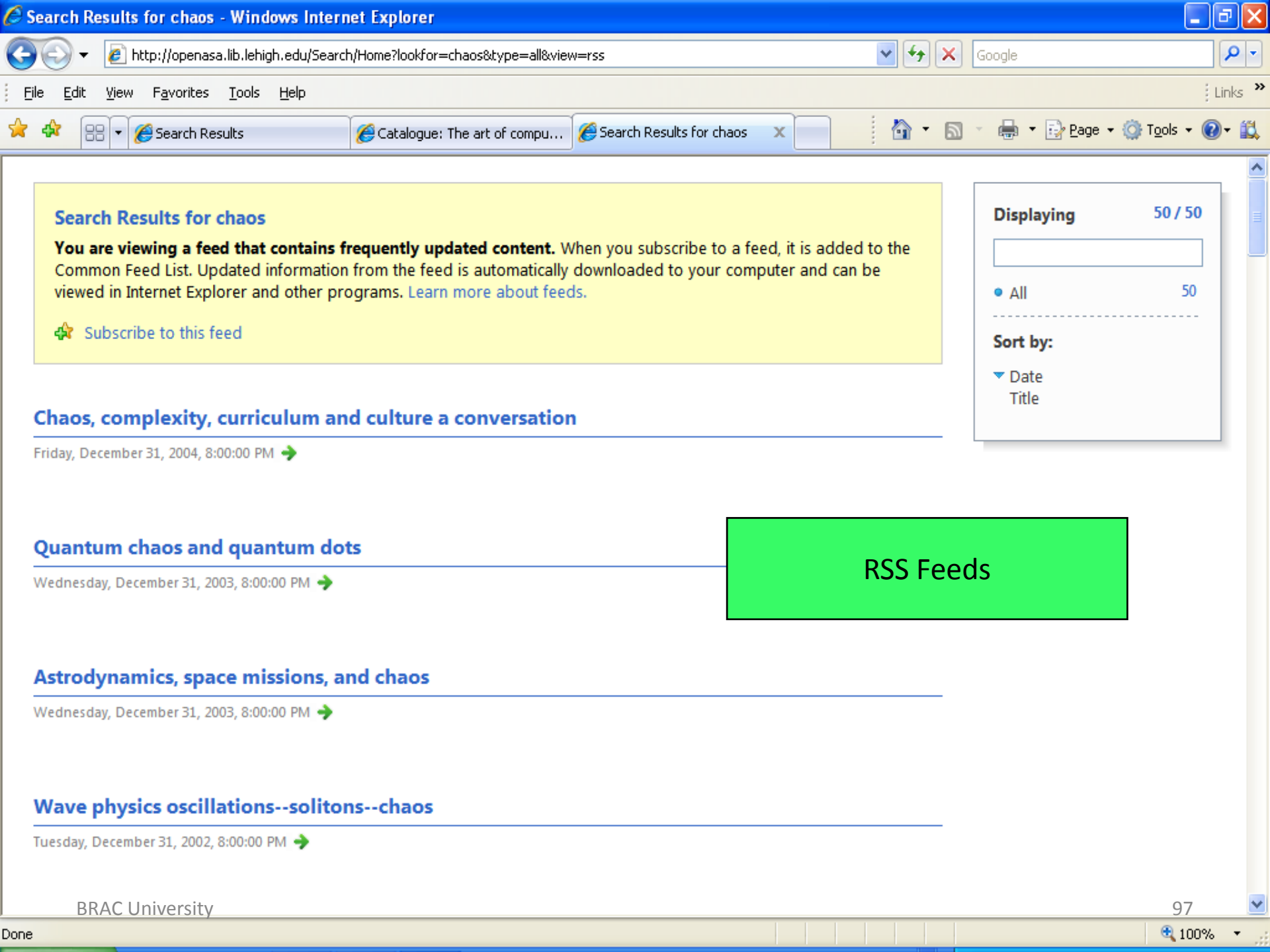
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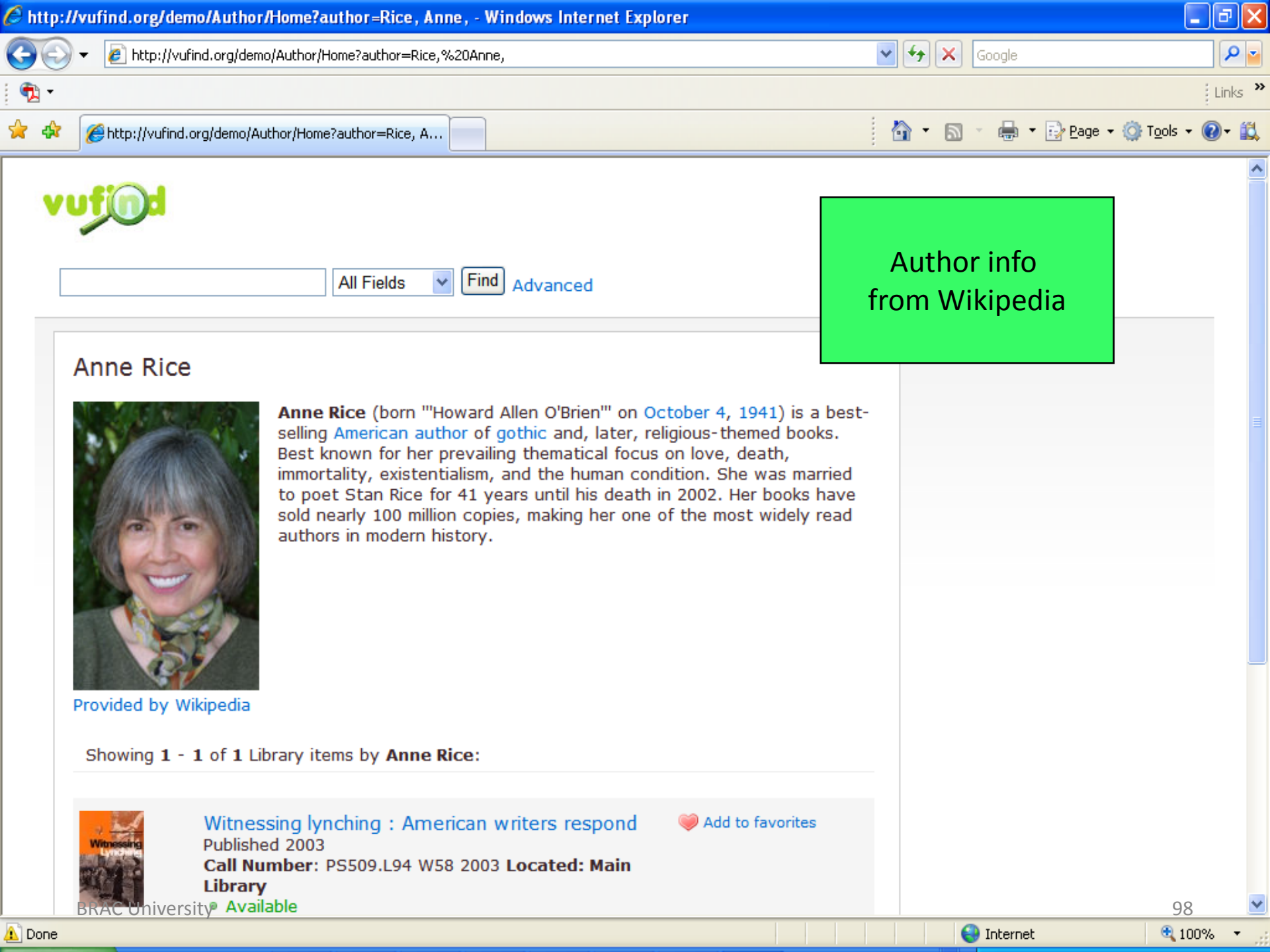
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Published: [Atlanta, Ga] Georgia Institute of Technology 2007

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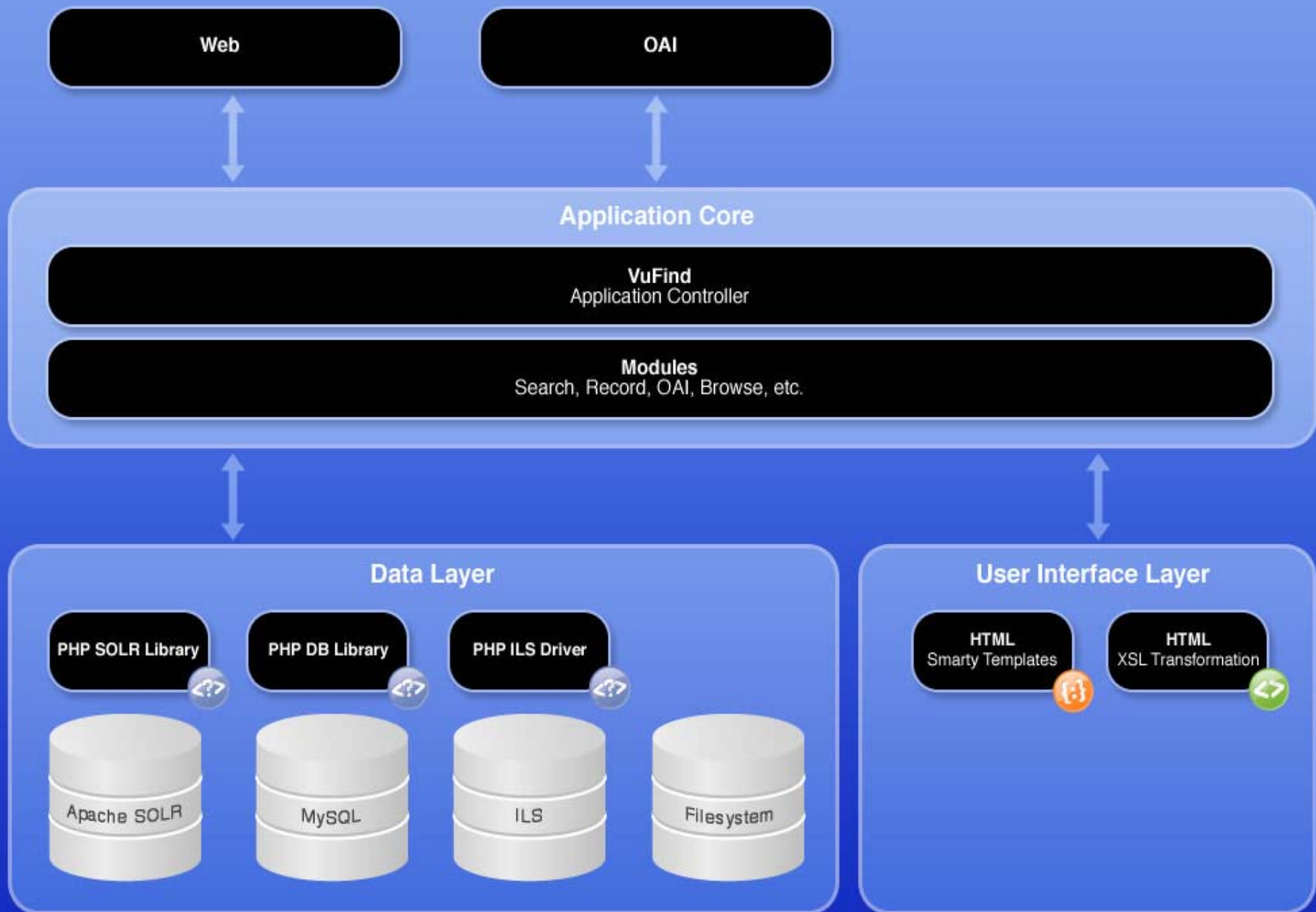
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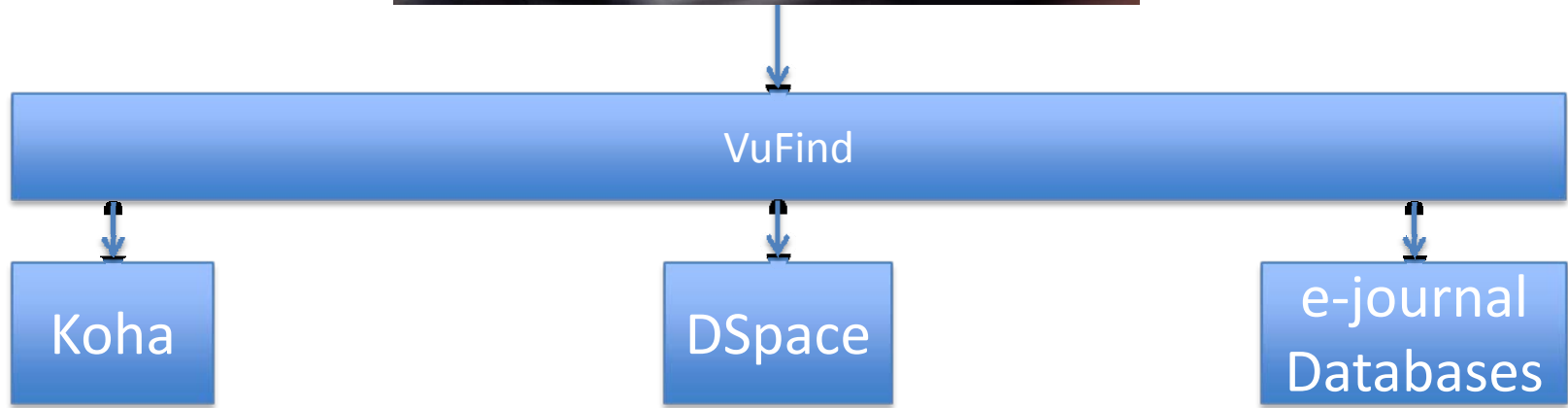




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Main Author: Sedgewick, Robert, 1946-
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Other Authors: Haque, M. Nasimul

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Issue Date: 2005

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- Fines
- Profile
- Your Saved Searches

Search Options

Search History
Advanced Search

Find More

Browse the Catalog
Course Reserves
New Items

Need Help?

Search Tips
Ask a Librarian
FAQs

Loading "http://library.bracu.ac.bd/vufind/MyResearch/CheckedOut", completed 5 of 8 items



Find

Advanced

English

Your Account

- Favorites
- Checked Out Items
- Holds and Recalls
- Fines
- Profile
- Your Saved Searches

Time	Search	Limits	Results	Save?
9:28am, 3rd Jan 11	Anything (empty search)	Format: eJournal	44,586	 Save
9:28am, 3rd Jan 11	Anything (empty search)	Format: eJournal	44,586	 Save
9:28am, 3rd Jan 11	algorithm	Format: eJournal	49	 Save
8:58am, 3rd Jan 11	algorithm		126	 Save
8:58am, 3rd Jan 11	algorithm	Format: eResource	30	 Save
10:52pm, 2nd Jan 11	Anything (empty search)		53,525	 Save
1:16pm, 2nd Jan 11	discrete mathematics		22	 Save
1:15pm, 2nd Jan 11	discrete		38	 Save
1:15pm, 2nd Jan 11	"discrete math"		0	 Save
1:15pm, 2nd Jan 11	discrete math		0	 Save
1:14pm, 2nd Jan 11	(All Fields:algorithms)		126	 Save
1:13pm, 2nd Jan 11	(All Fields:algorithms)	Format: eJournal	49	 Save
12:07pm, 2nd Jan 11	Anything (empty search)	Format: eResource	607	 Save
12:06pm, 2nd Jan 11	Anything (empty search)	Format: Book	8,268	 Save
12:04am, 2nd Jan 11	algorithm	Related Subjects: Parallel computers	2	 Save
12:03am, 2nd Jan 11	algorithm	Format: eJournal Related Subjects: Parallel computers	2	 Save

HANDS-ON WORKSHOP ON USING VUFIND

Part V

VUFIND INTEGRATION AT BRAC UNIVERSITY

Import Data into VuFind

- MARC
 - VuFind reads in MARC records
 - Easiest way to import ILS data into VuFind
 - e-Journals and repositories may not have records in MARC format
- OAI Import
 - Act as a crosswalk for Dspace
- Z39.50 Import
 - Planned for 2.0 release

Integration with Koha

- Koha ILS Records are exported in MARC format, which are then imported into VuFind
 - Very simple!
- Live item status and patron integration are achieved through connector interface (developed by Bracu library staff)
 - Significant learning curve; made possible by community support
 - Contributed back to the community

Integration with DSpace

- Dspace items are harvested using OAI-PMH interface
 - Again, solved with community support
 - May need to remove some fields (call number, item status, etc) before importing into VuFind
- Currently only searches the metadata, not the full-text

Integration with e-Journals

Two types of databases:

1. Databases that directly provide MARC records (EBSCO for example)
 - Load MARC records into **MarcEdit**, add/modify MARC fields if needed, and load into VuFind
2. Databases that provide spreadsheets with the required cataloging data (Cambridge University Press online journals for example)
 - Load spreadsheet into **MarcEdit**, and convert to MARC after mapping fields, and load into VuFind

Case study I: Import EBSCO Data into VuFind

- Simply load the MARC records from EBSCO into VuFind, and you're (almost) done!
- For better user-experience, some existing fields need to be modified, and some new to be added
 - Using **MarcEdit** of course!
- Use BracU e-Journal MARC fields as a reference
 - **Modify** fields **LDR, 008, 500**; **add** fields **506, 538**

EBSCO MARC Data

Field	Value
=LDR	00652cas 22001815 4500
=001	ebs485171
=003	EbpS
=006	m\\\\\\\\\\\\d\\\\\\\\\\\\
=007	cr\\anunnnuuuaa
=008	070202c\\\\9999xx\\uu\\p\\\\\\\\\\\\0\\\\\\\\0eng\\d
=022	0\\\$a1070-8588
=035	\\\\\$a(EbpS)ebs485171
=245	00\$Software Development\$h[electronic resource].
=260	\\\\\$aManhasset :\$bCMP Media LLC
=500	\\\\\$aPeriodical
=530	\\\\\$aIndexing and abstracting for print publication.
=773	0\\\$tAcademic Source Premier \$dlpswich, MA : EBSCO Publishing, 1999-
=856	40\$3Abstracts Available Mar 1997- \$zAvailable on EBSCOhost.\$uhttp://search.ebscohost.com/direct.a sp?db=a3h&jid=%2203G%22&scope=site

MARC Fields for e-Journals

Field	Description
=LDR	LEADER
=001	Control Number
=008	Fixed-Length Data Elements
=022	International Standard Serial Number
=245	Title Statement
=260	Publication, Distribution, etc. (Imprint)
=310	Current Publication Frequency
=500	General Note
=506	Restrictions on Access Note
=538	System Details Note
=650	Subject Added Entry - Topical Term
=856	Electronic Location and Access

MARC Fields for e-Journals

Field	Description
=LDR	LEADER
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=538	System Details Note
=650	Subject Added Entry - Topical Term
=856	Electronic Location and Access

MARC Fields to be Modified

Field	Given value	New value
LDR	=LDR 00652cas 22001815 4500	=LDR 00000cas\a2200000\a\450 0
008	=008 070202c\\\\9999xx\uu\p\\ \\\\0\\\\0eng\d	=008 101214s9999\\\\xx\\r\poo\ \\\\0\\\\0eng\d
500	=500 \\\$aPeriodical	=500 \\\$aOn-campus only: no User ID or password required

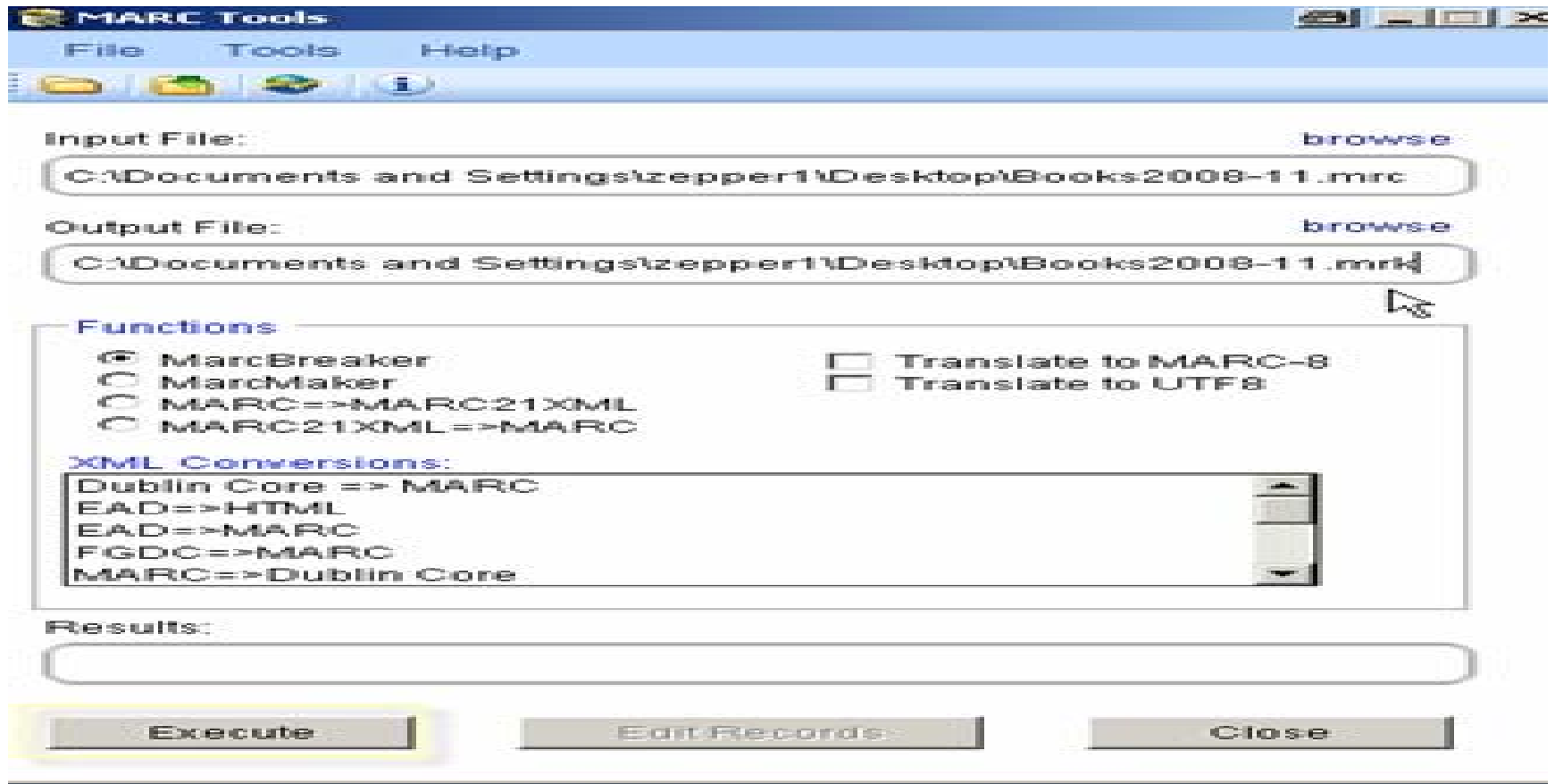
MARC Fields to be Added

Field	Description	Value
506	Restriction on Access Note	=506 1\ \$aElectronic access restricted to authorized BRAC University faculty, staff and students.
538	System Details Note	=538 \ \$aMode of access: Internet

Launch MarcEdit



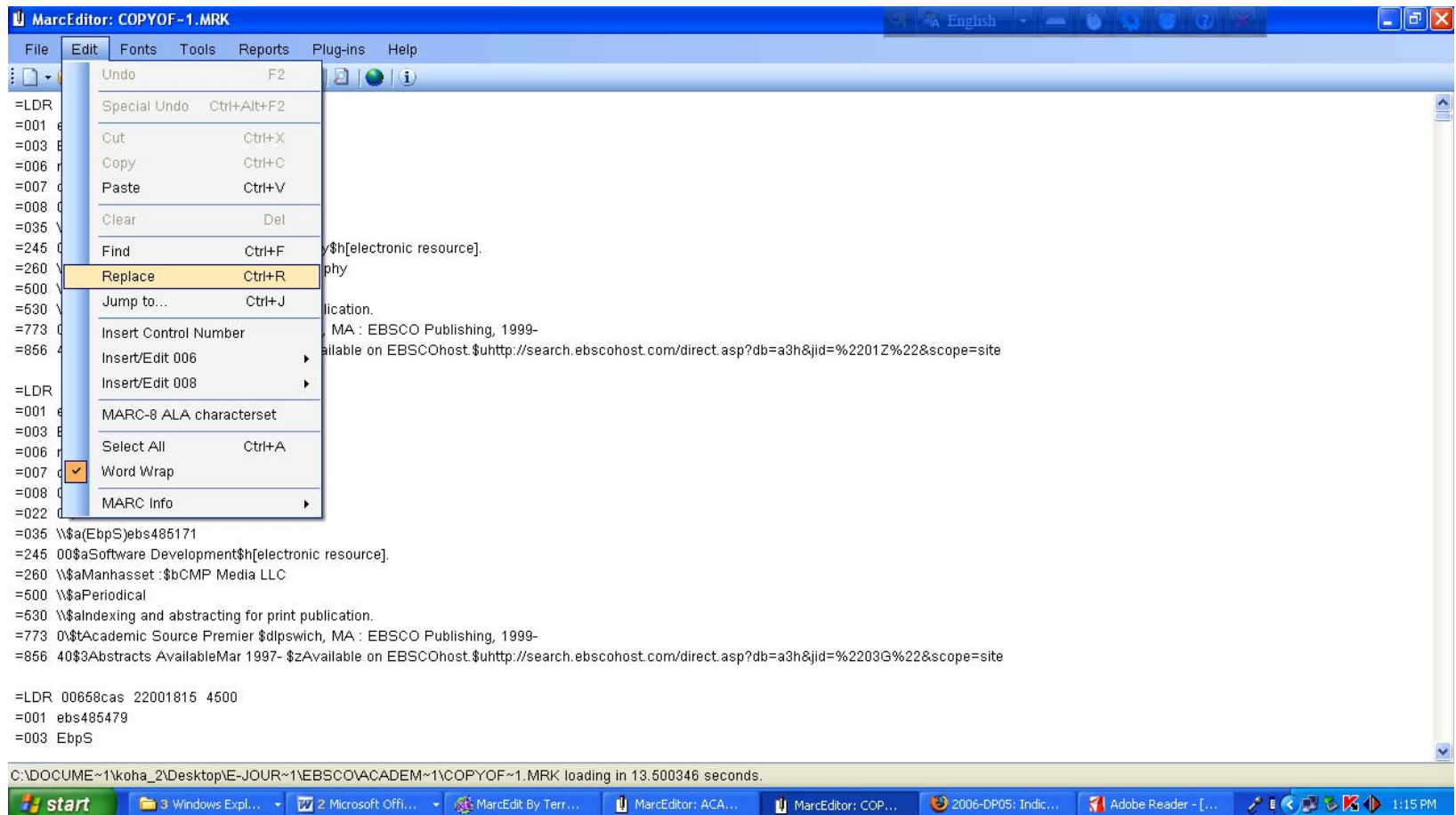
Click on MARC Tools



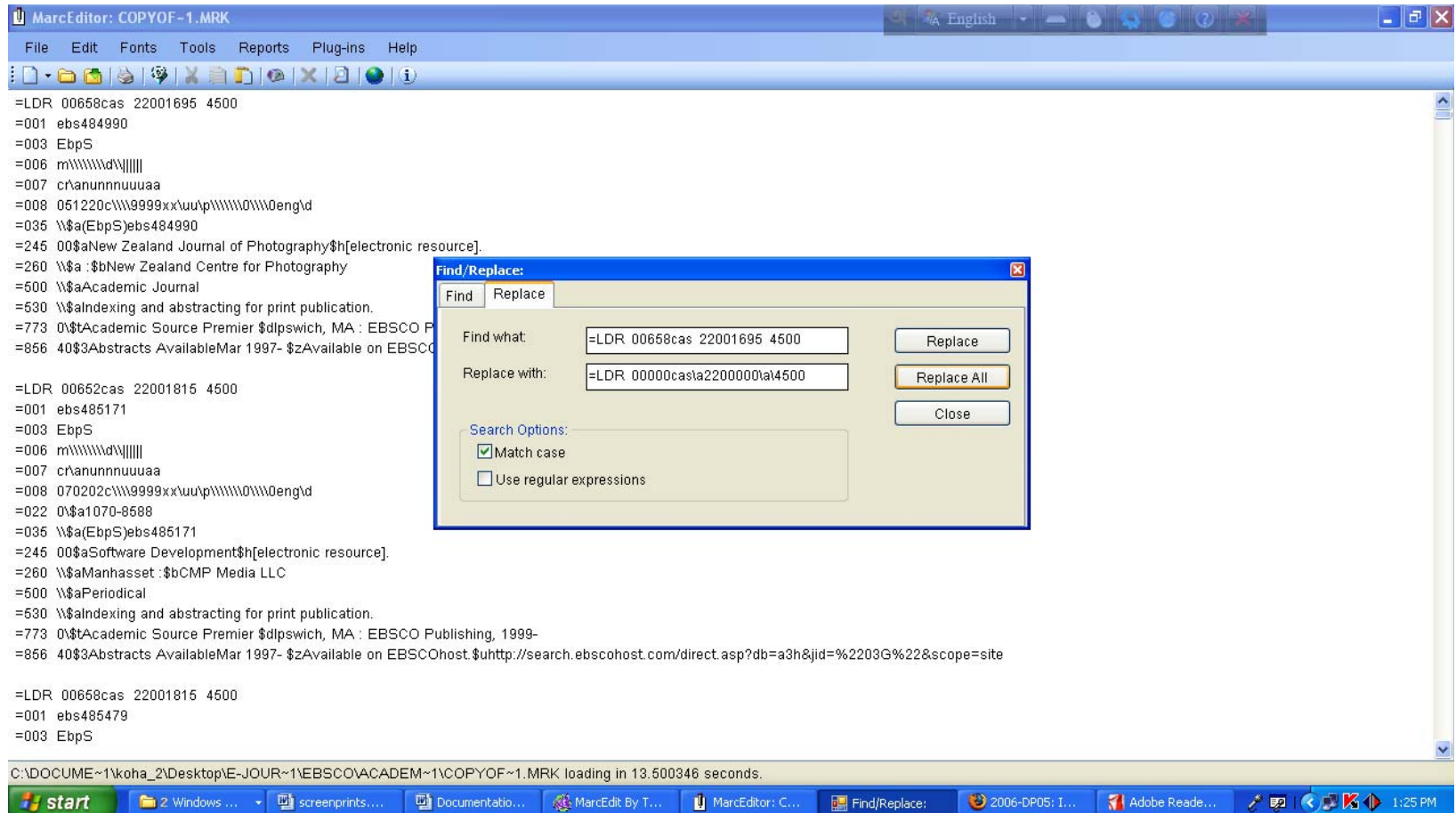
Use Mark Breaker to create editable **mrk** File

1. Click on **Browse** of Input File open **mrc** file of EBSCOHOST
2. Click on **Browse** of Output File to save the **mrc** file as **mrk** file
3. Click on **MarcBreaker**
4. Click on **Execute**
5. Open the **mrk** file (save as output file)
[double click the **mrk** file to open]

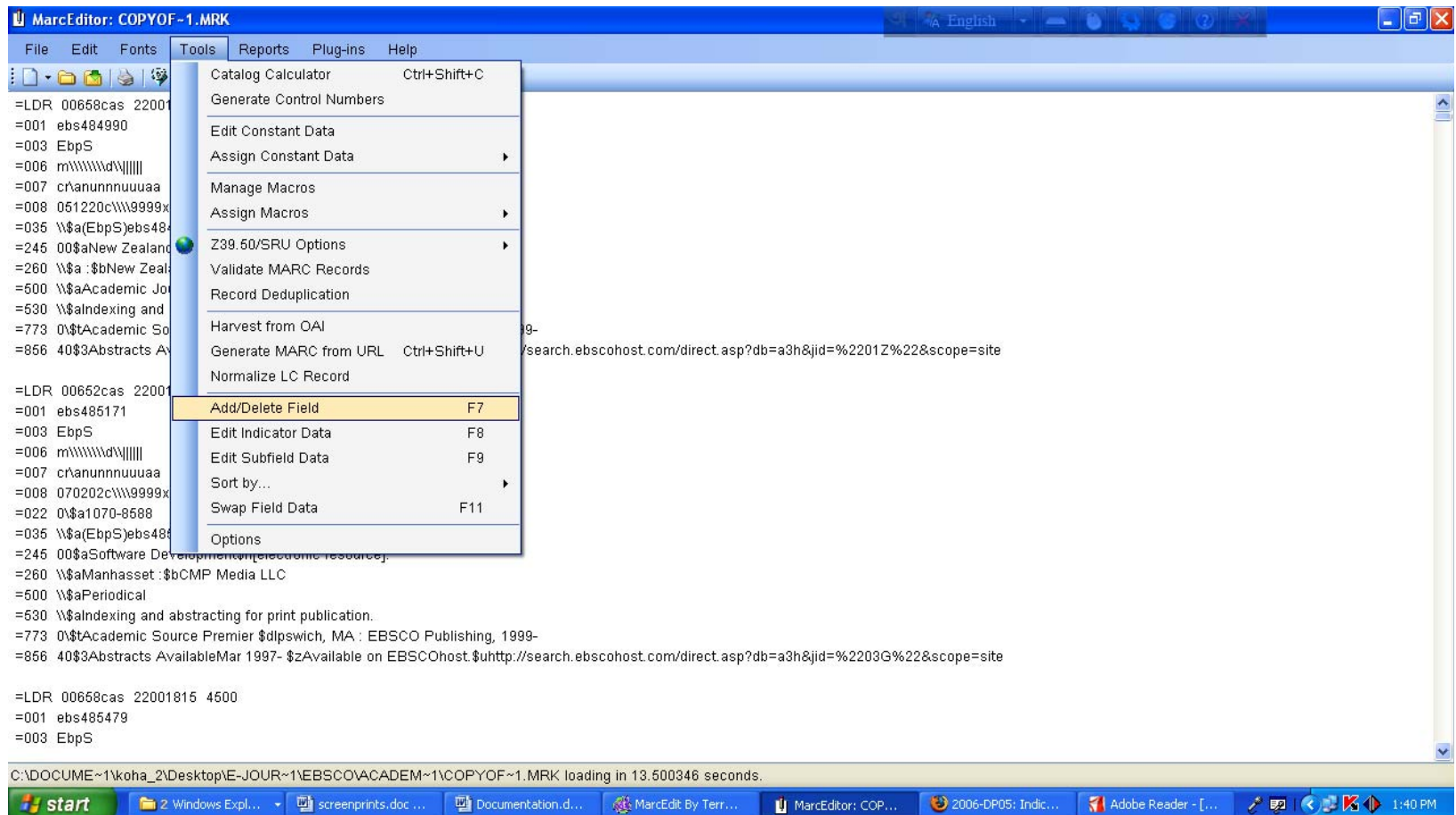
Modify LDR/008/500 Fields (1)



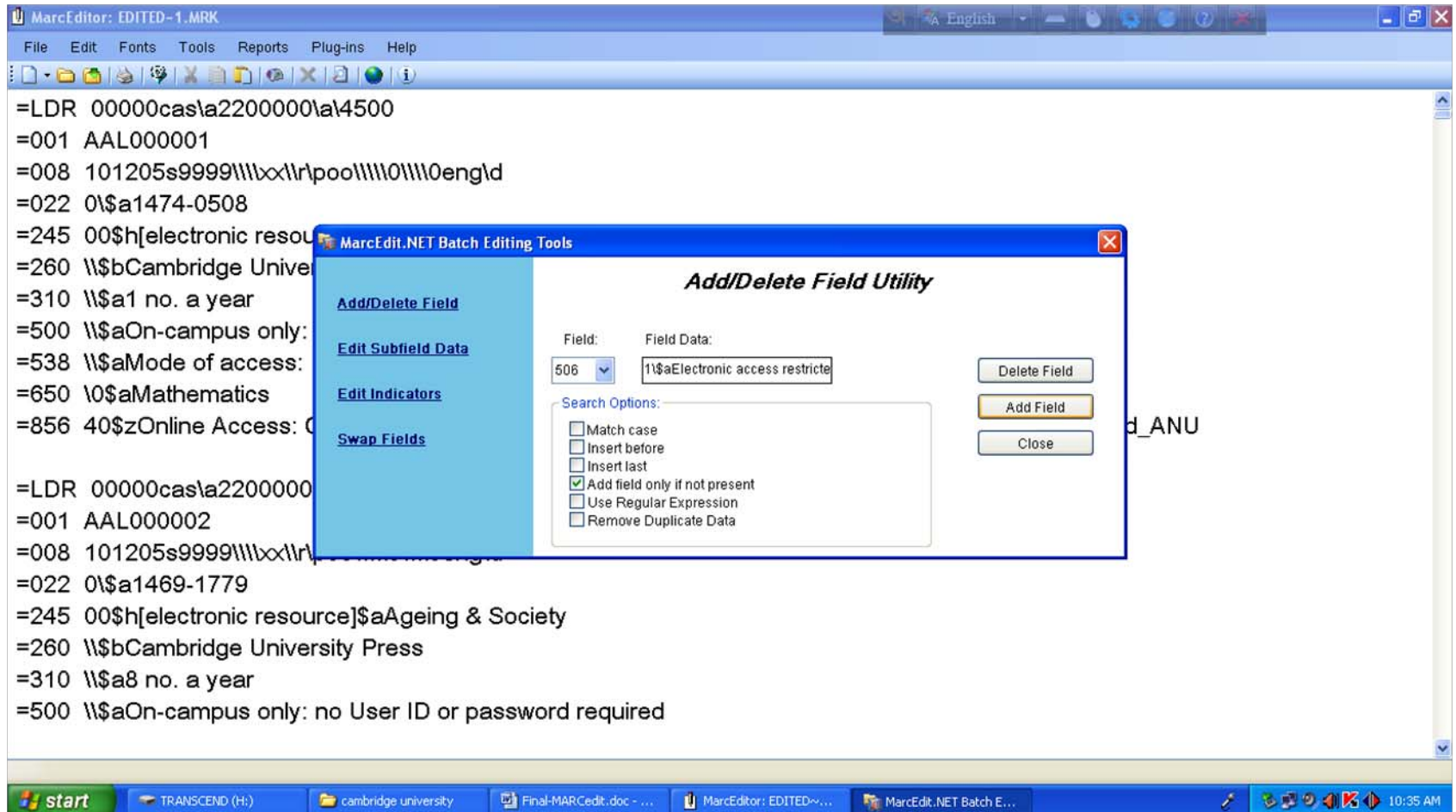
Modify LDR/008/500 Fields (2)



Add 506/538 Fields (1)



Add 506/538 Fields (2)



The Resulting **mrk** File

```
=LDR 00000cas\a2200000\a\4500
=001 ebs484990
=003 EbpS
=006 m\\\\\\\\d\\\\\\\\
=007 cr\anunnnuuuaa
=008 101207s9999\\xx\\r\poo\\\\0\\\\0eng\d
=035 \\$a(EbpS)ebs484990
=245 00$aNew Zealand Journal of Photography$h[electronic resource].
=260 \\$a :$bNew Zealand Centre for Photography
=500 \\$aOn-campus: no User ID or password required
=506 1\\$aElectronic access restricted to authorized BRAC University faculty, staff and students.
=530 \\$aIndexing and abstracting for print publication.
=538 \\$aMode of access: Internet
=773 0\\$tAcademic Source Premier $dIpswich, MA : EBSCO Publishing, 1999-
=856 40$3Abstracts Available Mar 1997- $zAvailable on
EBSCOhost.$uhttp://search.ebscohost.com/direct.asp?db=a3h&jid=%2203G%22&scope=site
```

Recreate MARC **mrc** File (1)

The screenshot shows the 'MARC Tools' application window. It has a menu bar with 'File', 'Tools', and 'Help'. Below the menu bar is a toolbar with icons for file operations. The main area contains two file selection fields, both set to 'C:\', with 'browse' links to their right. Below these is a 'Functions' section with radio buttons for 'MarcBreaker', 'MarcMaker' (selected), 'MARC=>MARC21XML', and 'MARC21XML=>MARC'. To the right of these are checkboxes for 'Translate to MARC-8' and 'Translate to UTF8'. Below the functions is a 'XML Conversions:' section with a list box containing 'Dublin Core => MARC', 'EAD=>HTML', 'EAD=>MARC', 'FGDC=>MARC', and 'MARC=>Dublin Core'. At the bottom is a 'Results:' text area and three buttons: 'Execute', 'Edit Records', and 'Close'.

MARC Tools

File Tools Help

Input File: [browse](#)

Output File: [browse](#)

Functions

☐ MarcBreaker ☐ Translate to MARC-8

☒ MarcMaker ☐ Translate to UTF8

☐ MARC=>MARC21XML

☐ MARC21XML=>MARC

XML Conversions:

Dublin Core => MARC

EAD=>HTML

EAD=>MARC

FGDC=>MARC

MARC=>Dublin Core

Results:

Recreate MARC **mrc** File (2)

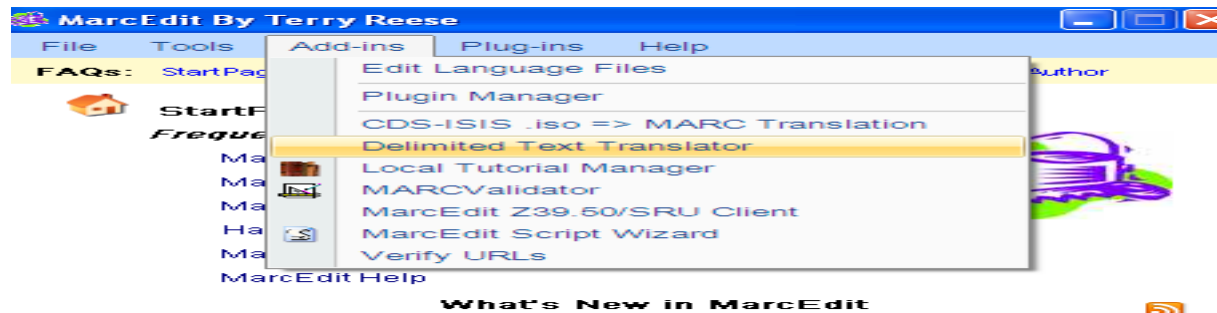
1. Click on **Browse** of Input File open **mrk** file (edited) of EBSCOHOST
2. Click on **Browse** of output File to save the **mrk** file as **mrc** file
3. Click on **MarcMaker**
4. Click on **Execute**

Load mrc into VuFind, and you're done!

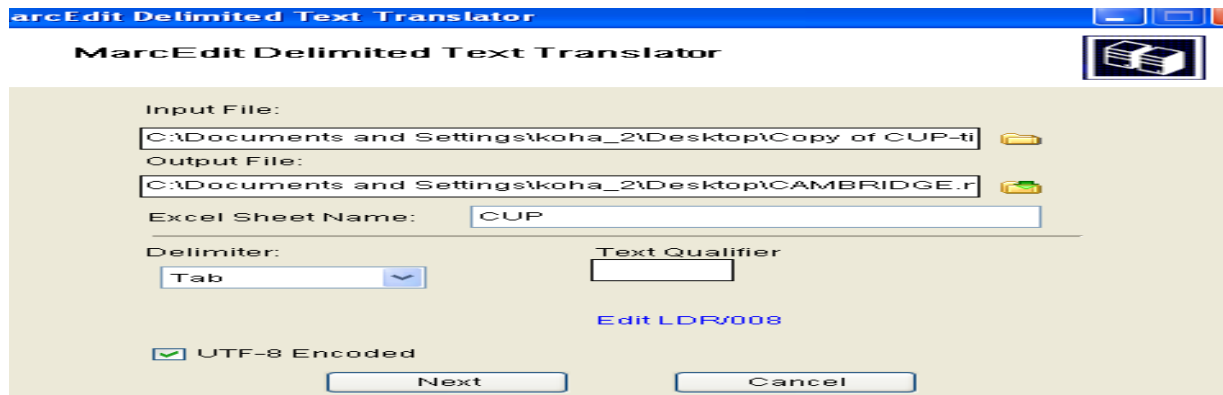
Case study II: Import Cambridge University Press Data into VuFind

- The cataloging data comes as a spreadsheet!
- Convert the Excel spreadsheet to MARC format using **MarcEdit**
 - Map columns to MARC fields, modifying values as needed (using our reference values)
 - Add new MARC fields if needed (using our reference fields and values)

Convert Excel to **mrk** (1)



Convert Excel to **mrk** (2)



1. Input File: Select the excel file of online database
2. Output File: Save the excel file in **mrk** extension
3. Excel Sheet Name: Write the **sheet** name of excel file
4. Click on **Next**

Map Columns to MARC Fields (1)

1. Select field number for inserting MARC field in **Map To**
2. Insert appropriate Indicators for the MARC fields. (see the MARC manual for Indicators)
3. Click on **Apply**

Example: Mapping fields **260**, **245** and **856**.

Map Columns to MARC Fields (2)

Select field **0**, map to **260 \$b** and indicators **** and click on **Apply**.

The screenshot shows the 'MarcEdit Delimited Text Translator' window. At the top is a table with columns: Field 0, Field 1, Field 2, Field 3, Field 4, Field 5, Field 6, and Field 7. Below the table are navigation arrows. The 'Select:' section has a dropdown menu with 'Field 0' and 'Field 1' options. The 'Map To:' text box contains '260\$b'. The 'Indicators:' text box contains '\\'. The 'Term. Punctuation:' text box is empty. There are two checkboxes: 'Constant Data' (unchecked) and 'Repeatable Subfield' (unchecked). The 'Arguments' section has a large empty text box, an 'Apply' button, a 'Load Template' button, a 'Save Template' checkbox (unchecked), and a 'Sort Fields' checkbox (checked). At the bottom are 'Finish' and 'Cancel' buttons.

Field 0	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
Publisher	Item title	Backfil...		Full Te...	ISSN	URL	Subj

Select:
Field 0
Field 1

Map To:
260\$b

Indicators:
\\

Term. Punctuation:

☐ Constant Data
☐ Repeatable Subfield

Arguments

Apply Load Template

☐ Save Template
☒ Sort Fields

Finish Cancel

Map Columns to MARC Fields (3)

Select field **1**, map to **245 \$h[electronic resource]\$a** and indicators **00** and click on **Apply**.

The screenshot shows the 'MarcEdit Delimited Text Translator' dialog box. At the top, there is a title bar and a toolbar with standard window controls and a document icon. Below the title bar, the text 'MarcEdit Delimited Text Translator' is displayed. The main area of the dialog is divided into several sections. At the top, there is a table with columns labeled 'Field 0' through 'Field 7'. The rows below the table contain labels: 'Publisher', 'Item title', 'Backfil...', 'Full Te...', 'ISSN', 'URL', and 'Subj'. Below the table, there is a 'Select:' section with a dropdown menu showing 'Field 0' and 'Field 1'. The 'Map To:' section contains a text box with the value '245\$h[electro'. The 'Indicators:' section has a text box with the value '00'. The 'Term. Punctuation:' section has an empty text box. There are two checkboxes: 'Constant Data' and 'Repeatable Subfield', both of which are unchecked. The 'Arguments' section on the right contains a large text box with the value '0 260\$b 0'. Below the 'Arguments' text box are two buttons: 'Apply' and 'Load Template'. There are also two checkboxes: 'Save Template' (unchecked) and 'Sort Fields' (checked). At the bottom of the dialog are two buttons: 'Finish' and 'Cancel'.

Field 0	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
Publisher	Item title	Backfil...		Full Te...	ISSN	URL	Subj

Select:
Field 0
Field 1

Map To:
245\$h[electro

Indicators:
00

Term. Punctuation:

☐ Constant Data
☐ Repeatable Subfield

Arguments
0 260\$b 0

Apply Load Template

☐ Save Template
☒ Sort Fields

Finish Cancel

Map Columns to MARC Fields (4)

Select field **2**, map to **856 \$zOnline Access: Cambridge University Press** and indicators **40** and click on **Apply**.

The screenshot shows the 'MarcEdit Delimited Text Translator' dialog box. At the top, there's a title bar and a toolbar. Below the title bar, the text 'MarcEdit Delimited Text Translator' is displayed. A table with 8 columns is shown, with headers 'Field 0' through 'Field 7'. The first row of data contains 'Publisher', 'Item title', 'Backfil...', 'Full Te...', 'ISSN', 'URL', and 'Subj'. Below the table, there are several sections: 'Select:' with a list box containing 'Field 1' and 'Field 2'; 'Map To:' with a text box containing '856\$zOnline /'; 'Indicators:' with a text box containing '40'; 'Term. Punctuation:' with an empty text box; and checkboxes for 'Constant Data' and 'Repeatable Subfield'. On the right side, there's an 'Arguments' section with a text box containing two lines of MARC code: '0 260\$b 0' and '1 245\$h[electronic resource]\$a 0'. Below the arguments are buttons for 'Apply', 'Load Template', 'Save Template' (disabled), and 'Sort Fields' (checked). At the bottom right are 'Finish' and 'Cancel' buttons.

Field 0	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
Publisher	Item title	Backfil...		Full Te...	ISSN	URL	Subj

Select:
Field 1
Field 2

Map To:
856\$zOnline /

Indicators:
40

Term. Punctuation:

☐ Constant Data
☐ Repeatable Subfield

Arguments:
0 260\$b 0
1 245\$h[electronic resource]\$a 0

Apply Load Template
☐ Save Template
☒ Sort Fields

Finish Cancel

Map Columns to MARC Fields (5)

The screenshot shows the 'MarcEdit Delimited Text Translator' dialog box. At the top, there's a title bar and a menu bar. Below the menu bar, the text 'MarcEdit Delimited Text Translator' is displayed. A table with 8 columns is shown, labeled 'Field 0' through 'Field 7'. The columns contain the following text: 'Publisher', 'Item title', 'Backfil...', 'Full Te...', 'ISSN', 'URL', and 'Subj'. Below the table, there's a 'Select:' section with two dropdown menus: 'Field 1' and 'Field 2'. To the right of these is a 'Map To:' section with a text box. Below that is an 'Indicators:' section with a text box containing a backslash. Further down is a 'Term. Punctuation:' section with a text box. At the bottom left, there are two checkboxes: 'Constant Data' and 'Repeatable Subfield'. On the right side, there's an 'Arguments' section with a text box containing three lines of MARC code: '0 260\$b 0', '1 245\$h[electronic resource]\$a 0', and '2 856\$zOnline Access: Cambridge Univ'. Below the arguments text box are two buttons: 'Apply' and 'Load Template'. Further down are two checkboxes: 'Save Template' and 'Sort Fields' (which is checked). At the bottom right, there are two buttons: 'Finish' and 'Cancel'.

Field 0	Field 1	Field 2	Field 3	Field 4	Field 5	Field 6	Field 7
Publisher	Item title	Backfil...		Full Te...	ISSN	URL	Subj

Select:
Field 1
Field 2

Map To:
[Text Box]

Indicators:
[Text Box: \]

Term. Punctuation:
[Text Box]

☐ Constant Data
☐ Repeatable Subfield

Arguments:
0 260\$b 0
1 245\$h[electronic resource]\$a 0
2 856\$zOnline Access: Cambridge Univ

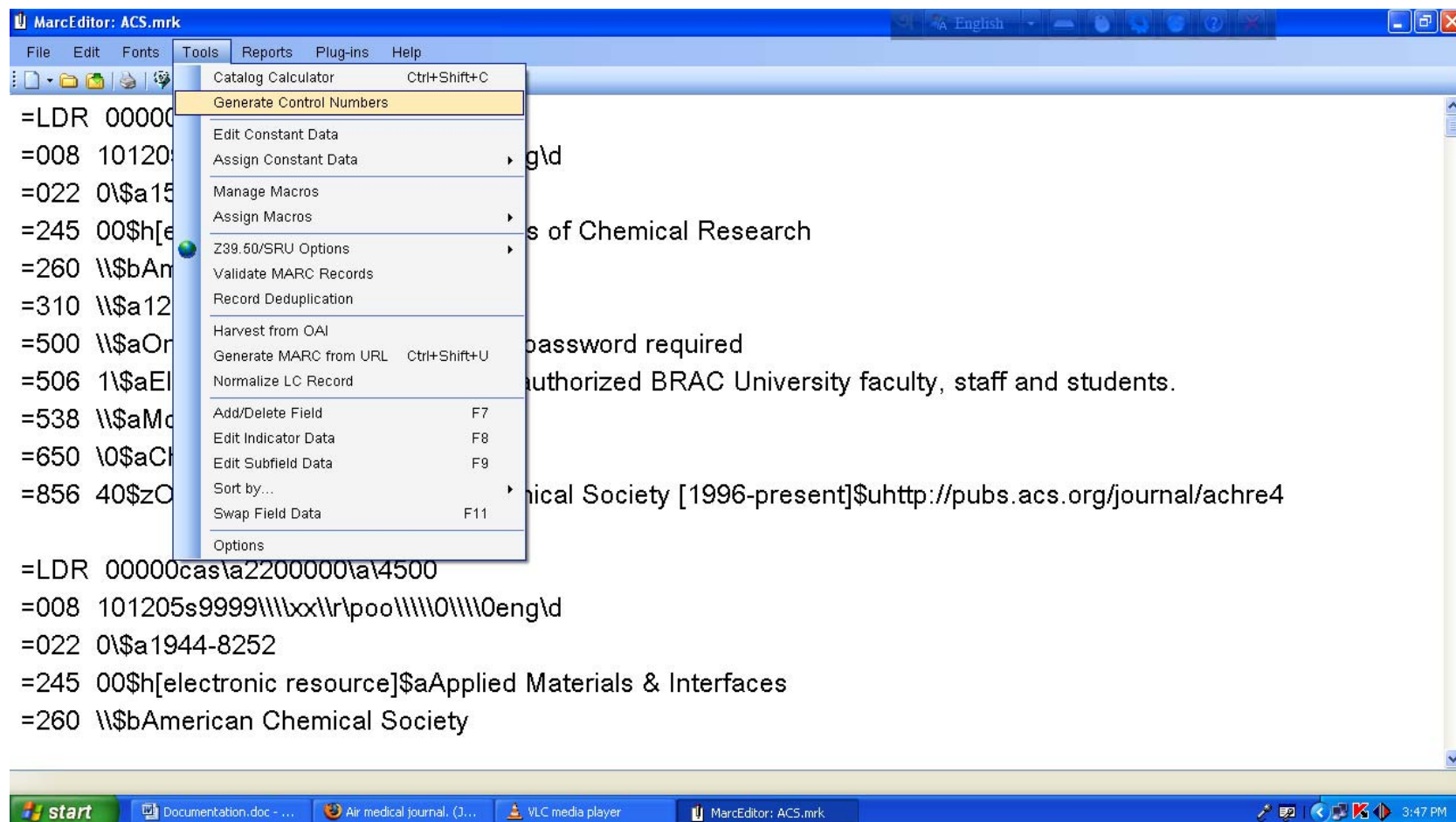
Apply Load Template

☐ Save Template
☒ Sort Fields

Finish Cancel

Keep mapping fields from input to MARC fields until all the reference fields are done.

Add Control Number (1)



Add Control Number (2)

The screenshot shows the MarcEditor: ACS.mrk application window. The main text area contains MARC records for two different journal entries. A dialog box titled 'Generate Control Numbers' is open in the center, allowing the user to configure the generation of control numbers. The dialog box has fields for 'Number Prefix' (AAL), 'Start Digit' (000001), and 'Digit Length (minus prefix)' (6). It also has checkboxes for 'Insert in new records' (unchecked) and 'Generate in current file' (checked). The 'OK' button is highlighted. The taskbar at the bottom shows the Windows start button and several open applications: Documentation.doc, Air medical journal, VLC media player, MarcEditor: ACS.mrk, and Generate Control Nu... The system clock shows 3:48 PM.

MarcEditor: ACS.mrk

File Edit Fonts Tools Reports Plug-ins Help

=LDR 00000cas\la2200000\la\4500

=008 101205s9999\\lx\\r\poo\\0\\0eng\ld

=022 0\$a1520-4898

=245 00\$h[electronic resource]\$aAccounts of Chemical Research

=260 \\\$bAmerican Chemical Society

=310 \\\$a12 no. a year

=500 \\\$aOn-campus only: no User ID or

=506 1\$aElectronic access restricted to a

=538 \\\$aMode of access: Internet

=650 \0\$aChemistry

=856 40\$zOnline Access: American Chem

Generate Control Numbers

Number Prefix:
AAL

Start Digit:
000001

Digit Length (minus prefix)
6

☐ Insert in new records

☒ Generate in current file

OK

Close

staff and students.

pubs.acs.org/journal/achre4

=LDR 00000cas\la2200000\la\4500

=008 101205s9999\\lx\\r\poo\\0\\0eng\ld

=022 0\$a1944-8252

=245 00\$h[electronic resource]\$aApplied Materials & Interfaces

=260 \\\$bAmerican Chemical Society

start Documentation.doc - ... Air medical journal. (J... VLC media player MarcEditor: ACS.mrk Generate Control Nu... 3:48 PM

The Resulting **mrk** File

=LDR 00000cas\ a2200000\ a\4500

=001 AAL000001

=008 101205s9999\\ \xx\\ r\poo\\ \\\0\\ \\\0eng\ d

=022 0\ \$a1474-0508

=245 00\$ h[electronic resource]\$ aActa Numerica

=260 \\ \$bCambridge University Press

=310 \\ \$a1 no. a year

=500 \\ \$aOn-campus only: no User ID or password required

=506 1\ \$aElectronic access restricted to authorized BRAC University faculty, staff and students.

=538 \\ \$aMode of access: Internet

=650 \0\$ aMathematics

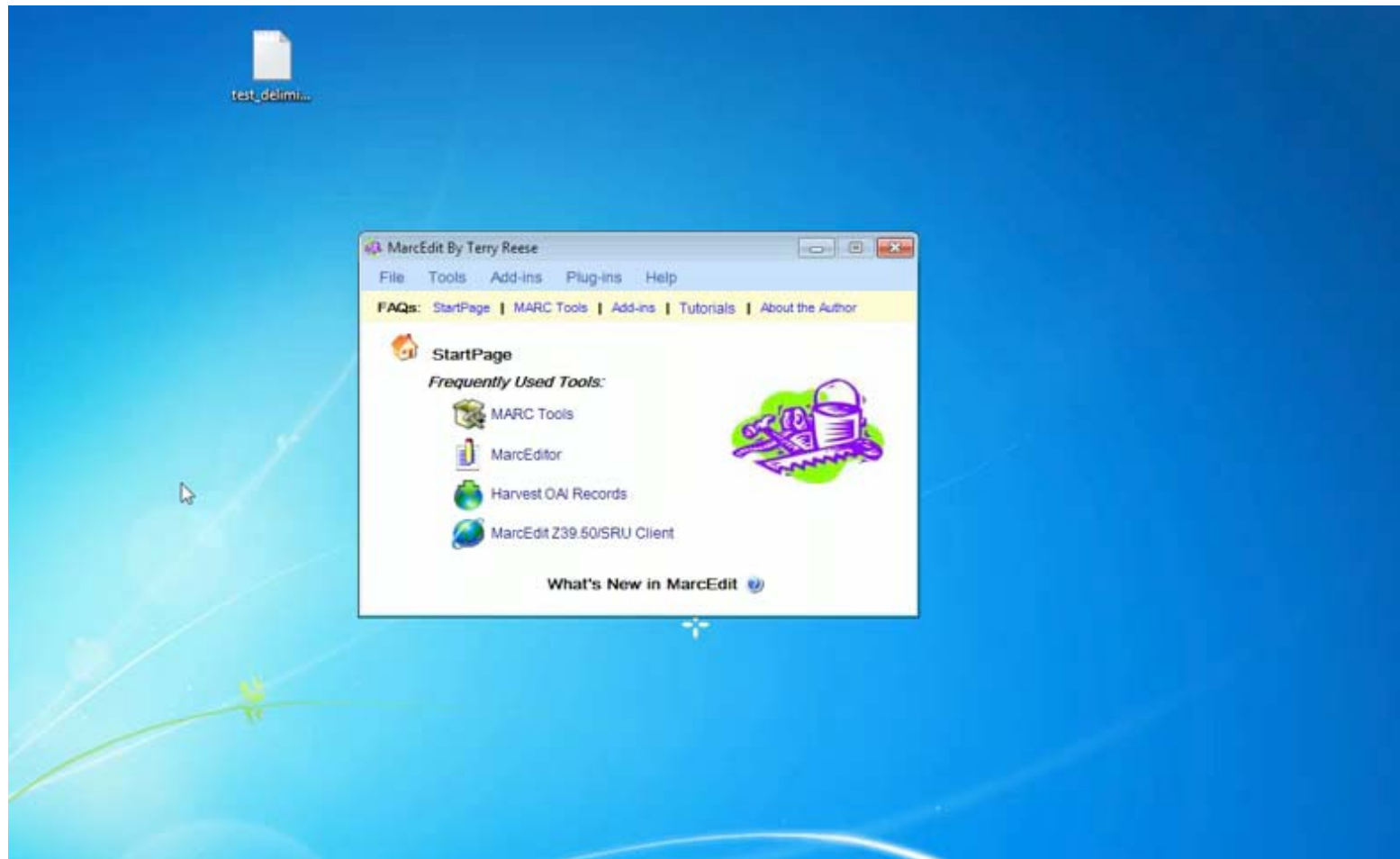
=856 40\$ zOnline Access: Cambridge University Press: [2000-present]\$ uhttp://journals.cambridge.org/jid_ANU

Load MARC Data into VuFind

1. Re-create **mrc** file from **mrk** file
2. Load into VuFind

Congratulations, you're done!

Converting Excel to MARC - Video



HANDS-ON WORKSHOP ON INTEGRATING KOHA, DSpace AND E- JOURNALS INTO VUFIND

References

- <http://vufind.org/docs/Access%20-%20VuFind%20Presentation.ppt>, last accessed 1/01/11.
- <http://vufind.org/docs/NERCOMP.ppt>, last accessed on 1/01/11.
- http://www.wils.wisc.edu/events/wworld2010/present/resource_discovery.ppt, last accessed 1/01/11.
- <http://www.librarytechnology.org/docs/14309.ppt>, last accessed 2/01/11.
- <http://www.librarytechnology.org/docs/14679.ppt>, last accessed 2/01/11.
- <http://www.indiana.edu/~iulfc/presentation/ILS.ppt>, last accessed 3/01/11.

**THANK
YOU**