### Institutional Repositories a big picture

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open access south africa

May 2008

## Overview

### Past

- Digital Collections The Hard Way
   2 Case Studies
- Present
  - The Low-hanging Fruit
    Institutional Repositories
    - ETDs
- Future
  - Ubiquitous Digital Collections
- Analysis and Implications



# The W3C-WCA Repository

Search Repository			Help	
Search :		Submi	t	
Browse Listing	g of Resources		Help	
Complete Listing	<u>All Publications</u>	Confera Journal Technic Theses Drafts Books Other	<u>ences</u> <u>s</u> <u>cal Reports</u> /Dissertations	
(Publications, Tools and	All Tools	<u>Genera</u>	<u>l tools</u>	
<u>Traces)</u>	<u>All Traces</u>	<u>Client 1</u> <u>Server</u> <u>Proxy lo</u> <u>Networ</u> <u>Logs of</u> <u>engine</u> <u>Miscell</u>	ogs logs ogs k traffic Search S aneous logs	
Add New	Resource		Help	
Read the procedure         on submitting resources and then           Add New Resource				
Log File	Formats		<u>Help</u>	
Add New File Format		List File Fo	rmats	
Down	load Validation Software			





## What were we storing?

- 66.249.67.89 - [10/Feb/2008:14:59:16 +0200] "GET /localdocs/openIdap/rfc/rfc3712.txt HTTP/1.1" 200 62301 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"
- 65.214.45.140 - [10/Feb/2008:15:01:07 +0200] "GET /localdocs/Sablot/jsdom-ref/apidocs/api-Node.html HTTP/1.0" 200 5451 "-"
   "Mozilla/5.0 (compatible; Ask Jeeves/Teoma; +http://about.ask.com/en/docs/about/webmasters.shtml)"
- 66.249.67.89 - [10/Feb/2008:15:02:01 +0200] "GET /localdocs/openIdap/rfc/rfc2294.txt HTTP/1.1" 200 22059 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"
- 61.135.166.102 - [10/Feb/2008:15:04:14 +0200] "GET / HTTP/1.1" 200 308 "-" "Baiduspider+ (+http://www.baidu.com/search/spider.htm)"
- 220.181.38.169 - [10/Feb/2008:15:04:23 +0200] "GET / HTTP/1.1" 200 308 "-" "Baiduspider+ (+http://www.baidu.com/search/spider.htm)"
- 66.249.67.89 - [10/Feb/2008:15:04:55 +0200] "GET /localdocs/openIdap/rfc/rfc2255.txt HTTP/1.1" 200 20686 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"
- 66.249.67.89 - [10/Feb/2008:15:07:45 +0200] "GET /localdocs/openIdap/rfc/rfc2253.txt HTTP/1.1" 200 18226 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"
- 66.249.67.89 - [10/Feb/2008:15:08:59 +0200] "GET /workshops/lesotho HTTP/1.1" 200 47246 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"
- 66.249.67.89 - [10/Feb/2008:15:10:55 +0200] "GET /localdocs/openIdap/rfc/rfc3296.txt HTTP/1.1" 200 27389 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"
- 66.249.67.89 - [10/Feb/2008:15:14:16 +0200] "GET /localdocs/libwmf/html/classes.html HTTP/1.1" 200 7529 "-" "Mozilla/5.0 (compatible; Googlebot/2.1; +http://www.google.com/bot.html)"



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## **Open Access ?**

- All documents and data (mostly log files from servers) were open to the world.
- This was the first OAI-compliant archive!
  - The repository was used as a testbed when the OAI protocols were developed.
- Data collections were contributed by:
  - AOL, Altavista, Boeing, etc.





### Features

- Search and Browse interfaces.
- Users could submit documents.
- An editor always checked submissions.
- Data was carefully validated!

	Add Resource	9		<u>Help</u>	
Please fill in reque     Navigate using th bottom	Fields marked * are compulsory     Click on the headings for help				
Time of recourses					
Lype of resource					
Recourse trae*					
Resource type*	Server Log	•			
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Resource type* Contact informatio Name of person* Email address*	Server Log <i>n for entry creator</i> Hussein Sule hussein@vt.e	man			
Resource type* Contact informatio Name of person* Email address*	Server Log <i>n for entry creator</i> Hussein Sule hussein@vt.e	• man du	Novtos	Einich	







## Validation

### Format of log files was defined using XML descriptions (long before XML schema).

<field> <quote/> <method/> <space/> <url/> <space/> <httpversion/> <quote/> </field>

- Every dataset was tested against its formal definition using a special high-performance validation program.
  - Data items failing validation were excluded from the repository!
  - Datasets were certified (or not).
  - Certification and error report were added to metadata.





# Scalability

All datasets were stored on FTP servers.

- FTP was (is?) more efficient than HTTP for large data transfers.
- Repository only handled metadata through Web UI.
- Datasets were very large and often distributed.
  - Magnetic tapes were sent by courier to exchange data among sites.
  - A tape robot storage system was used on the central server.
  - Subsets of data were kept online if complete datasets were too large.





# Linking

- Repository initially only contained datasets, but expanded to include papers and tools.
- Metadata records for datasets and documents were stored in the same database.
- Search/browse operated over all metadata.
- Datasets were linked to documents in the metadata.





## Legalities

- Datasets were contributed by their owners.
- All sensitive data was first removed (by the submitters or archive managers).
- Tools were developed to anonymise datasets (e.g., removing IP addresses).
- The tools were themselves added to the repository!



## **Computer Science Teaching Ctr**



### Welcome!

### **CSTC Newsletter**

The CSTC is a digital library of reviewed resources for teaching computer science. We invite you to submit a resource and browse our collection.

### Submit a Resource

- Step 1: <u>Create a CSTC account</u>
- Step 2: Login to CSTC
- Step 3: Complete <u>Submission</u> <u>Application</u>

#### Volunteer as a Reviewer

• Step 1: Create a CSTC account

Document: Done

Our monthly newsletter keeps you informed about the latest additions to the library. To subsribe to the newsletter, simply create an account and put a check in the checkbox under the CSTC newsletter section. If you want to unsubsribe at any time, just go to the "account info" page and deselect the checkbox.

### ACM JERIC

Resources submitted to CSTC may be considered for publication in the <u>ACM</u> <u>Journal on Educational Resources in</u> <u>Computing (JERIC)</u>.

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## **JERIC**

Journal of Educational Resources in Computing (JERIC)

### **Online Submission and Review System**

Welcome to the JERIC S

From here you can submit publication in ACM JERI reviews or manage the rev

blah blah blah ...

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blah blah blah

Document: Done (0.83 secs)

ubmission and Review system.	Login		
t papers and resources for consideration for C, and if you are a reviewer or editor, you can submit viewing process respectively.	Email Password remember email/password on this machine Login <u>Can't remember password?</u>		
	New User ?		
	Fill out registration form		
© 2002 ACM JERIC	,		







# CSTC / JERIC

- Developed in mid-1990s.
- Collection of teaching-related resources in Computer Science.
- Strong emphasis on peer review.
- Workflow of modern IR systems.
- JERIC prototyped an online journal review system.
  - Journal publication credit as an incentive for contributing resources to CSTC!







### **Open Archives Initiative**



### The Open Archives Initiative Protocol for Metadata Harvesting

Protocol Version 2.0 of 2002-06-14 Document Version 2004/10/12T15:31:00Z http://www.openarchives.org/OAI/2.0/openarchivesprotocol.htm

Previous protocol version: <u>Protocol Version 1.1 of 2001-07-02</u> <u>Instructions</u> for migrating from Version 1.1 to 2.0 <u>Implementation Guidelines</u>

### Editors

<u>The OAI Executive:</u> <u>Carl Lagoze <lagoze@cs.cornell.edu</u> > -- <u>Cornell University - Computer Science</u> <u>Herbert Van de Sompel</u> <<u>herbertv@lanl.gov</u> > -- <u>Los Alamos National Laboratory - Research Library</u>

From the OAI Technical Committee:

<u>Michael Nelson</u> <<u>m.l.nelson@larc.nasa.gov</u> > -- <u>NASA - Langley Research Center</u> <u>Simeon Warner</u> <<u>simeon@cs.cornell.edu</u> > -- <u>Cornell University - Computer Science</u>

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UNIVERSITY OF CAPE TOWN

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### **Budapest Open Access Initiative**

### **Budapest Open Access Initiative**

#### 💥 🖼 🚺 🚍 📰

#### Home

initiative

FAQ

Grants

to help

BOAI

Resources

Other Initiatives

What you can do

OSI support for

Read the initiative

Sign on to the

View signatures

BOAI Forum

### Budapest Open Access Initiative

The Budapest Open Access Initiative arises from a small but lively meeting convened in Budapest by the Open Society Institute (OSI) on December 1-2, 2001. The purpose of the meeting was to accelerate progress in the international effort to make research articles in all academic fields freely available on the internet. The participants represented many points of view, many academic disciplines, and many nations, and had

#### Ask the EU to take action

Sign European petition in support of Open Access Learn More

experience with many of the ongoing initiatives that make up the open access movement. In Budapest they explored how the separate initiatives could work together to achieve broader, deeper, and faster success. They explored the most effective and affordable strategies for serving the interests of research, researchers, and the institutions and societies that support research. Finally, they explored how OSI and other foundations could use their resources most productively to aid the transition to open access and to make open-access publishing economically self-sustaining. The result is the Budapest Open Access Initiative. It is at once a statement of principle, a statement of strategy, and a statement of commitment.

The <u>initiative</u> has been signed by the Budapest participants and a growing number of individuals and organizations from around the world who represent researchers, universities, laboratories, libraries, foundations, journals, publishers, learned societies, and kindred open-access initiatives. We invite the signatures, support, and participation of the entire world scientific and scholarly community.

E-mail: openaccess@soros.org.

Contact us

have been added

to the initiative.



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### Present

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## Institutional Repositories



UNIVERSITY OF CAPE TOWN

Past

## Institutional Repositories

- Collections of pre-prints and post-prints
- Research-centric
- Self-archiving
- Open Access
- Lots of software support: Dspace, Eprints, etc.
- Large international community
- Many established collections
- Clear value proposition



## **ETD Collections**

### ETD Individuals



Search

Home About Browse by Year Browse by Subject

Login | Create Account

### Welcome to ETD Individuals

This server supports submission of, and access to, electronic theses and dissertations (ETDs). We welcome works submitted by individuals whose degree granting institution does not have a program for ETDs. Works can be at the bachelor's, master's, doctoral, post-doctoral, and other levels. They typically will be a thesis or dissertation, but can be a project report or other resource prepared by a student with college or university supervision. Browsing and searching are anonymous. But if you wish to submit a work, you must first register.

If you need a bit more help getting started, the EPrints team has a <u>commercial services</u> arm which provides training, support, hosting and consultancy services.

🔊 Atom 🔊 RSS 1.0 🔊 RSS 2.0

#### Latest Additions

View items added to the repository in the past week.

Search Repository

Search the repository using a full range of fields. Use the search field at the top of the page for a quick search.

#### Browse Repository

Browse the items in the repository by subject.

http://www.ch3zmoi.com/cgi-bin/getpanel.pl?ID=caaaaatg



## **ETD Collections**

- Electronic Theses and Dissertations
- Submission/Review Workflow
- Examination documents
  - Not published
- Similar to Pre/Post-print IRs, but different
  - Reasons for existence
  - Legal status
  - Workflow
  - Level of importance to institutions





### **Higher Level Services**

NDLTD	Search for items:  Search Search Search Search Search Search Powered by VTLS TAL LIBRARY OF THESES AND DISSERTATIONS
We found 382273 matchi	ing items. (1) Help
Showing all items.	Sort by: Publication Date (newest first)   + Reorder
Language English {200213} Portuguese {57171} French {9262} Swedish {8584} German {4926} Lithuanian {4181} Show More/Less Continent North America {221327} Europe {47185} South Pacific {36897} Asia {16404} Latin America {2687} Africa {800} Country USA {168321}	Results 1 - 10 of 382273       First Previous       1 2 3 4 5 6 7 8 9 10       Next Last         1.       Teoria de sistemas vibratorios aporticados não-lineares e não-ideais         Author: Jorge Luis Palacios Felix       Date/Publisher: z Cl-Ru-ar by Biblioteca Digital da Unicamp.         Language: Portuguese       Description 1: Apresenta-se o estudo do comportamento dinâmico não linear de um pórtico plano, excitado por uma fonte não ideal - um motor elétrico de corrente contínua, desbalanceado e de potênci limitada. Toma-se, um problema cujo modelo matemático representa um sistema simplificado (com característica do motor em regime estacionário) e completo (considera-se a equação elétrica do motor) Adota-se a formulação Lagrangeana para gerar as equações de movimento, contendo termos não lineares até ordem cúbica. To Show More/Less         Description 2: This work concerns the computational and analytical study of the non-linear dynamic behavior of a portal frame, excited by a non-ideal source - an unbalanced direct current electric motor o limited power. A problem whose mathematical model represents a simplified system (the characteristic of the motor in stationary state) and complete (the electric equation of the motor is considered). Lagrange formularization for deducing the equations of motion, up to cubic nonlinear terms is followed.
Canada {53006} Australia {36358} Sweden {18107}	<ol> <li>2. Saving, wealth, and retirement : evidence from the health and</li> </ol>

department of Computer Science



### Past

### **Higher Level Services**

NDUTD	Search ETDs
	Browse/Search ETDs Submit ETD Community Activities Research Projects
ABOUT NDLTD	Search     Advanced search       hussein suleman     Search       Image: Search     Search       Image: Search     Search
DOCUMENTATION	Searched for: All of the words hussein suleman
JOIN NDLTD	Found: 3 results
SUBSCRIBE	Sort by: relevance   <u>date</u>
RELATED LINKS	Open Digital Libraries     Did you mean?       Suleman, Hussein. Nov 2002     author:hussein
ADMIN LOGIN	Digital Libraries (DLs) are software systems specifically designed to assist users in information seeking activities. Stemming from the intersection of library sciences and computer networking, traditional DL systems impose library philosophies of
SELECT LANGUAGE	Open digital libraries Suleman, Hussein Jan 2002 Thesis (Ph. D.)Virginia Polytechnic Institute and State University, 2002. Title from electronic submission form. Vita. Abstract. Includes bibliographical references. Genetic Programming in Mathematica Suleman, Mr Hussein. Jan 1997 GP has traditionally been implemented in LISP but there is a slow migration towards faster languages like C++. Any implementation language is dictated not only by the speed of the platform but also by the desirability of such an implementation. With a

**Future** 

## **Higher Level Services**

CITIDEL	
	Computing and Information Technology Interactive Digital Educational Library

Search CITIDEL Go Advanced Search Subject Search Home	Computing and Information Te Computer Science Teaching C Computer Science Teaching C Please use this id	cchnology Interactive Digital Educational Library Repository > Center > Center > dentifier to cite or link to this item: http://hdl.handle.net/10117/28
Browse	Title:	JPEG interactive Visualization
	Keywords:	Computing Methodologies sub_subject: Simulation and Modeling,Interactive, visualization, JPEG
<u>Titles</u>	Issue Date:	12-Jun-2000
Authors Authors Subjects	Abstract:	Interactive visualization of the JPEG compression algorithm.
By Date	URI:	http://www.citidel.org/handle/10117/28
	Other Identifiers:	89
Sign on to:	Appears in Collections:	Computer Science Teaching Center
→ Receive email updates		
My CITIDEL     authorized users	Files	in This Item:
→ Edit Profile		File Description Size Format





## **Higher Level Services**

- Harvest / Search / Browse
- Uncertain
  - Costing
  - Ownership of data/metadata
  - Benefits
  - How to merge collections what is relevant?





### Present

### **Open Educational Resources**

MA	MITOPENCOURSEWARE				→简体字 > <b>繁體</b> 字 >View trans	>Español >Português slated courses
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Get Started with OCW	4.37.3623.1	ALCONG THE REAL OF				
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> Audio/Video Courses	Empowering Minds.			unive	ersities sho	uld be
> Translated Courses			Tant	doin	g."	
> New Courses	Free lecture notes, exams, and		alata 2.925	Larr	y Birenbau	n
	Videos from MIT.		-TUART	MIT	class of 196 orter	9 and OCW
> Find Courses	No registration required.	-		Unite	ed States	
Architecture and Planning	>Learn more			> Rea	d more	
Engineering				1	Total Local Division in which the	The second second
Health Sciences and						
Technology	FEATURED COURSE	1				
Humanities, Arts, and Social			Invest	in Ope	n	_
Science s	Green Black			ope		100
Management	Orange Pink					
Science     Science	Dialige Thirk		DONATE NOW >:	> <b>2</b>		
Other Programs	Ked Rine		Why donate? >>		-1-	
> View All Departments	6.831 User Interface Design and Implementation, Fall 2004					
> Other Resources	Say the colors of each word aloud. Is it difficult? That's beca the Stroop effect.	use of	OCW is grateful for t	he support of:		



### **Open Educational Resources**

Log in Register

### THE CAPE TOWN OPEN EDUCATION DECLARATION

### Home

Read the Declaration

Sign the Declaration

View Signatures

Translations

FAQ

Press

\_\_\_\_\_

Related Initiatives

Comments



### The Cape Town Open Education Declaration

The Cape Town Open Education Declaration arises from a <u>small but lively meeting</u> convened in Cape Town in September 2007. The aim of this meeting was to accelerate efforts to promote open resources, technology and teaching practices in education.

Convened by the Open Society Institute and the Shuttleworth Foundation, the meeting gathered participants with many points of view from many nations. This group discussed ways to broaden and deepen their open education efforts by working together.

The first concrete outcome of this meeting is the <u>Cape Town Open Education</u> <u>Declaration</u>. It is at once a statement of principle, a statement of strategy and a statement of commitment. It meant to spark dialogue, to inspire action and to help the open education movement grow.

Open education is a living idea. As the movement grows, this idea will continue to evolve. There will be other visions initiatives and declarations beyond Cape Town. This is exactly the point. The Cape Town signatories have committed to developing further strategies, especially around open technology and teaching practices.

The <u>Declaration</u> has already been signed by hundreds of learners, educators, trainers, authors, schools, colleges, universities, publishers, unions, professional societies, policymakers, governments, foundations and other kindred open education initiatives around the world. We encourage you to join us.

This work is licensed under a Creative Commons Attribution 3.0 License.





### **Open Educational Resources**

- Computer-Based Training
- Syllabi, Tests, Exams, Notes, Slides, etc.
- Course Packs
- Uncertain
  - Legal framework
  - Motivation/reward system
  - Responsibility
  - Linking into Learning Management Systems





## **Cultural Heritage**

### THE DIGITAL BLEEK AND LLOYD

The Digital Bleek and Lloyd includes scans of every page of the 114 Lucy Lloyd Ixam notebooks, 13 Lloyd (mostly) !kun notebooks and 28 Wilhelm Bleek Ixam notebooks. It also includes Jemima Bleek's solitary Korana and !kun notebook (but excludes three Korana notebooks in the collection of the Maingard Library at the University of South Africa) and all the drawings and watercolours made by lhan≠kass'o, Dia!kwain, Tamme, luma, !nanni and Da. This represents the coming together of an archive dispersed across three institutions: the National Library, Iziko South African Museum and the University of Cape Town. With the scans is a 280 000-word searchable index, cross-referenced and including notes and summaries for each of the stories listed. Notes in italics are direct quotes from the reports of Bleek and Lloyd in which they detail the progress of their research.





Books
Cover to cover | Contributor | Story
Category | Keyword



Drawings/Watercolours



Contributors Ixam | !kun | Researchers





## **Cultural Heritage**

- Collections of digitized objects related to heritage.
- Uncertain
  - Tools
  - Workflows
  - Sustainability





# **Personal Digital Collections**



13 items





# **Personal Digital Collections**



7 items





# **Personal Digital Collections**

- Personal collections of documents/files.
- Unclear
  - Tools
  - Best practices
  - Archiving and preservation approaches
  - How to deal with scale
  - How to integrate with others
  - Metadata







0 research logs
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🛇 河 research_projects
🛇 河 research_students
nocoarch stud a mea kiaran

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	🕬 Re: [CS #26] new servers	Hu
	🕬 [CS #27] AutoReply: new servers	The
	[CS #26] AutoReply: new servers	The
	🗇 new servers	Hu
	🗇 Thinkpad	Eve
	🕬 Re: Fw: PO 915425 Lenova Thin	Eve
	🗇 Re: Fw: PO 915425 Lenova Thin	Hu
	🕬 Re: Fw: PO 915425 Lenova Thin	Hu
	🗇 Re: MAC addresses	Hu
	🕬 Re: MAC addresses	Hu
	AC addresses	Hu



Analysis



raceen carernan

### **Electronic Communication**

HI GHIIJCOPHET

some minor comments can be found at: http://banzai.cs.uct.ac.za/~hussein/2008/grid/grid\_2008\_draft6.pdf

dont worry about the acknowledgements for now ... if the paper is accepted we can add that later.

ttfn, ----hussein

hussein suleman ~ <u>hussein@cs.uct.ac.za</u> ~ <u>http://www.husseinsspace.com</u>

cparker@cs.uct.ac.za wrote:

Hi,

Sorry about the "spam" - I have included the sections in the text file and fixed some spelling and such after reading it though. One final mistake is on the last bit of text on page 2 - "of" must go. I forgot to ask you about acknowledgments for NRF. Shall I put these at the end after conclusion? Do you perhaps have the grant number for me?

<u>http://banzai.cs.uct.ac.za/~cparker/paper.pdf</u>



## **Electronic Communication**

- Personal/group collections of messages, conversations and collaborations.
- Network (sequence) of actions.
- Unclear
  - Public status
  - Tools
  - Best practices
  - Archiving and preservation approaches
  - How to deal with scale



### **Administrative Documents**



#### Faculty handbooks (Handbooks 6 - 11)

Commerce

- Commerce 2008 [download] (14 mb)
- Commerce, Part 1 2007 [download] (730 kb)
- Commerce, Part 2 2007 [download] (870 kb)
- Commerce 2006 [download] (12 mb)
- Commerce 2005 [download] (12 mb)
- Commerce 2004 [download] (12 mb)

Engineering & the Built Environment - 2008 [download] (13 mb)

Health Sciences - 2008 [download] (2 mb)

Humanities

- Graduate School of the Humanities (postgraduate study) 2008 [download] (18 mb)
- Performing and Creative Arts 2008 [download] (740 kb)
- Undergraduate 2008 [download] (12 mb)

Law - 2008 [download] (860 kb)

Science



## Administrative Documents

- Any set of documents related to administrative activities.
- Forms, handbooks, records, etc.
- Unclear
  - Tools
  - Best practices
  - Archiving and preservation approaches
  - How to deal with scale
  - Workflow
  - Legal requirements



## ePortfolios

**UCT Department of Computer Science** 

Honours Project Archive 2007

[ Back to Year ] [ Back to Pubs ]

An Extensible Software Testbed for Wireless Mesh Networks

By: Paolo Pileggi File: pileggi.zip [<u>View online</u>] [<u>Download</u>]

#### A System for Automated Geo-referencing

By: Aziz Hendricks, Irwhan Rakiep File: hendricks\_rakiep.zip [<u>View online</u>] [<u>Download</u>]

### Cellphone Shopper

By: Graham Hunter, Marc Pelteret, Tshifiwa Ramuhaheli File: hunter\_pelteret\_ramuhaheli.zip [<u>View online</u>] [<u>Download</u>]

### Creating Usage Sensitive Knowledge Structures

By: Sean Colledge, Ian Saunder File: colledge\_saunder.tar.gz [<u>View online</u>] [<u>Download</u>]

• CyberTracker Mobile

By: Liyaqat Mugjenkar, Garth Whitaker File: mugjenkar\_whitaker.zip [<u>View online</u>] [<u>Download</u>]

• Developing Country E-Commerce Portal



## ePortfolios

- Persistent collections of student work.
- Either group- or student- based.
- Unclear
  - Complex object storage
  - Linking
  - Repository vs. Local stores
  - Ownership







## The Big Picture



## Implications - Collections

- This is just the current known other collection types may emerge.
- Common features in multiple digital collections.
- One repository does not fit all it is not clear how to map collections to repositories.
- One software system (Dspace/Greenstone/XYZ) does not fit all.





### Implications - Institutions

- Digitization in all facets of university life.
- Need ETD/IR policies now.
- Need Digital Strategies in general.
- Need to move beyond donor funding to GOB.



## **Implications - Staff**

- Roles are not clear.
- Librarians and IT people have a increasing role to play.
- No one group owns digital domain.
- Common skills for different projects.
- Need for reskilling (end users, librarians, IT staff, etc.)
- Challenges or Opportunities?





## In Conclusion ...

- Lots of common problems are being solved in general terms:
  - Multilingual issues
  - Usability of systems
  - Scalability of systems
  - Workflows, processes and roles
  - Legalities

It is OK to tackle the low-hanging fruit ...But be aware of other digital efforts.





### That's All Folks!

### hussein@cs.uct.ac.za

### Digital Libraries Laboratory UCT Computer Science





