

Why should African academics care about Open Access?

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Arguments against Open Access

- Expose our poor quality research.
- □ More work duplication of effort.
- Open Access is not proven beyond a doubt to be better.
- High quality comes from journals why waste time with low quality online documents?
- □ Paper will last longer.
- Not everyone is doing it.
- The system is working already!



Open Access?

Research Discovery 1/3



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 suleman fox madalli
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Web

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UCT CS Research Document Archive - Digital Libraries

Digital Libraries. Fox, Edward A., Hussein Suleman, Devika Madalli and Lillian Cassel (2003) Digital Libraries, in Practical Handbook of Internet Computing. ... pubs.cs.uct.ac.za/archive/00000016/ - 6k - Cached - Similar pages

UCT CS Research Document Archive - Design and Implementation of ...

Suleman, Hussein, Edward A. Fox and Devika Madalli (2003) Design and Implementation of Networked Digital Libraries: Best Practices. ... pubs.cs.uct.ac.za/archive/00000017/ - 6k - Cached - Similar pages
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Documentation Research and Training Centre: Items for Author ...

... 2003, Design and Implementation of Networked Digital Libraries: Best Practices, Hussein, **Suleman**; **Fox**, Edward A.; **Madalli**, Devika P. ... https://drtc.isibang.ac.in/ items-by-author?author=Madalli%2C+Devika+P. - 10k - Cached - Similar pages

Documentation Research and Training Centre: Items for Author Fox ...

... Date of Issue, Title, Authors. 2003, Design and Implementation of Networked Digital Librarias: Boot Practices, Hussain, Sulaman; East, Edward A.; Madalli, Davika





Research Discovery 2/3

UCT CS Research Document Archive

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Digital Libraries

Fox, Edward A., Hussein Suleman, Devika Madalli and Lillian Cassel (2003) Digital Libraries, in Practical Handbook of Internet Computing. CRC Press.

Full text available as:

PDF - Requires Adobe Acrobat Reader or other PDF viewer.

EPrint Type: Book Chapter

H Information Systems: H.0 GENERAL

H Information Systems: H.1 MODELS AND PRINCIPLES

Subjects: H Information Systems: H.3 INFORMATION STORAGE AND RETRIEVAL

A General Literature: A.1 INTRODUCTORY AND SURVEY

H Information Systems: H.4 INFORMATION SYSTEMS APPLICATIONS

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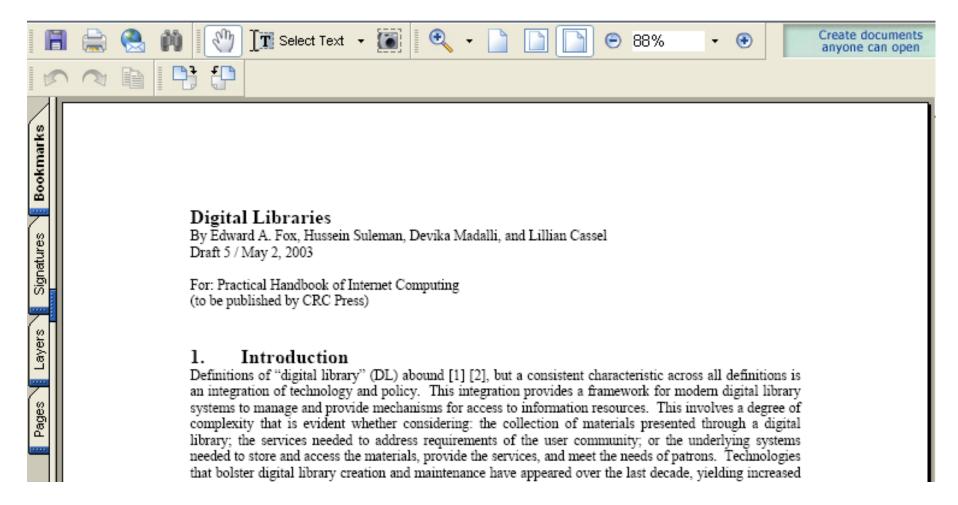
Deposited By: Suleman, Hussein

Deposited On: 11 July 2003





Research Discovery 3/3







Google Scholar

The Open Archives Initiative

H Suleman... - Journal of Library Administration, 2002 - Taylor & Francis
Summary The Open Archives Initiative (OAI) is dedicated to solving problems of digital
library interoperability. Its focus has been on defining simple protocols, most recently for the
exchange of metadata from archives. The OAI evolved out of a need to increase access to ...
Cited by 25 - Related articles - BL Direct - All 6 versions

Automatic marking with Sakai

H Suleman - Proceedings of the 2008 annual research conference ..., 2008 - dl.acm.org
Abstract Large student numbers often drive teaching staff to consider greater degrees of
automation of assessment activities. In introductory Computer Science classes-where
submitted programs need to repeatedly be compiled, executed and tested-automation is ...
Cited by 19 - Related articles - SFX@UCT - All 5 versions

Digital libraries without databases: The bleek and lloyd collection

H Suleman - Research and Advanced Technology for Digital ..., 2007 - Springer Digital library systems are frequently defined with a focus on data collections, traditionally implemented as databases. However, when preservation and widespread access are most critical, some curators are considering how best to build digital library systems without ... Cited by 20 - Related articles - SFX@UCT - BL Direct - All 5 versions

Building digital libraries from simple building blocks

H Suleman, EA Fox, R Kelapure... - Online Information ..., 2003 - emeraldinsight.com
Abstract: Metadata harvesting has been established by the Open Archives Initiative as a
viable mechanism for connecting a provider of data to a purveyor of services. The Open
Digital Library model is an emerging framework which attempts to break up the services ...
Cited by 20 - Related articles - BL Direct - All 10 versions

Leveraging OAI harvesting to disseminate theses

H Suleman... - Library Hi Tech, 2003 - emeraldinsight.com

Abstract: NDLTD, the Networked Digital Library of Theses and Dissertations, supports and encourages the production and archiving of electronic theses and dissertations (ETDs).

While many current NDLTD member institutions and consortia have individual collections ...

Cited by 19 - Related articles - BL Direct - All 15 versions

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Microsoft Academic Search

Hussein Suleman

Metadata harvesting has become a common technique to transfer a stream of data from one metadata repository or digital library system to another. As collections of metadata, and their associated dig- ital objects, grow in size, the ingest of these items at the destination archive can take a significant amount of time, depending on the type of indexing or post-...

Conference: International Conference on Asian Digital Libraries - ICADL, pp. 81-90, 2006

Reflections on Three Years of Archiving Research Output 75 View...

Hussein Suleman

While "Open Access" and "institutional repositories" have received some attention in South Africa in recent years, very few tertiary institutions and departments have made a commitment to opening up access to their research. The Department of Computer Science at UCT was one of the first departments in the country to adopt the notion of an institutional repository, albeit localized, because ...

Published in 2006.

Flexing Digital Library Systems (Citations: 3)

Hussein Suleman, Kevin Feng, Siyabonga Mhlongo, Muammar Omar

Digital library systems with monolithic architectures are rapidly facing extinction as the discipline adopts new practices in software engi- neering, such as component-based architectures and Web Services. Past projects have attempted to demonstrate and justify the use of components through the construction of systems such as NCSTRL and Schol- Net. This paper describes current work to push the ...

Conference: International Conference on Asian Digital Libraries - ICADL, pp. 33-37, 2005

Designing a 'universal' Web application server (Citations: 2) 🔁 View...

ANDREW MAUNDER, REINHARDT VAN ROOYEN, HUSSEIN SULEMAN

Conference: Conference of the South African Institute of Computer Scientists and Information Technologists - SAICSIT 2005





Open Access?

- 3354 hits directly from Google in February 2009.
- Example:
 - http://www.google.co.za/search?q=questionnaire+uml+sdl
 - Kritzinger, Pieter, Marshini Chetty, Jesse Landman, Michael Marconi and Oksana Ryndina (2003) ChattaBox: A Case Study in Using UML and SDL for Engineering Concurrent Communicating Software Systems. In Proceedings Southern African Telecommunications Networks and Applications Conference, George, South Africa.

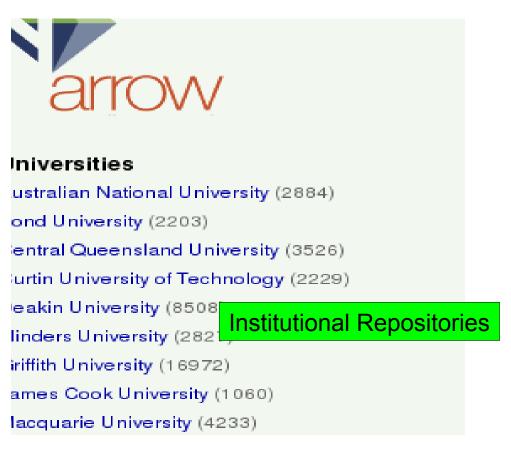




Open Access

Principle of unrestricted access to information.



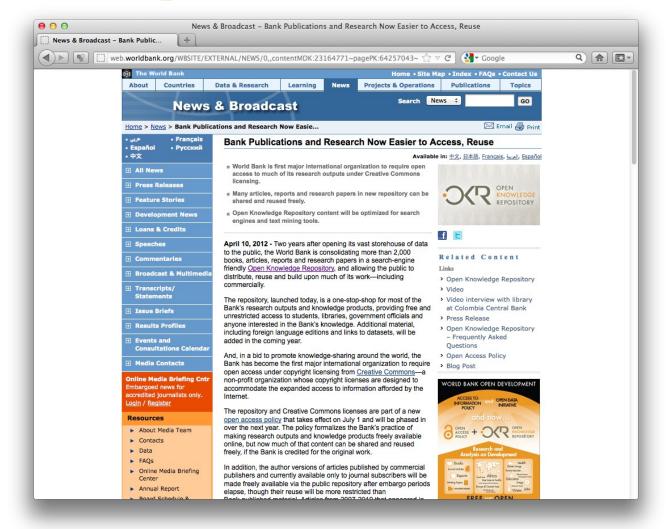




Movements

Worldwide and SA

World Bank – April 2012







MIT – 20 March 2009

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MIT faculty open access to their scholarly articles

March 20, 2009

CAMBRIDGE, Mass., March 20 - In a move aimed at broadening access to MIT's research and scholarship, faculty at the Massachusetts Institute of Technology have voted to make their scholarly articles available to the public for free and open access on the Web.

The new policy, which was approved unanimously at an MIT faculty meeting on Wednesday, March 18 and took immediate effect, emphasizes MIT's commitment to disseminating the fruits of its research and scholarship as widely as possible.

"The vote is a signal to the world that we speak in a unified voice; that what we value is the free flow of ideas," said Bish Sinyal, chair of the MIT Faculty and the Ford International Professor of Urban Development and Planning.

Under the new policy, faculty authors give MIT nonexclusive permission to disseminate their journal articles for open access through DSpace, an open-source software platform developed by the MIT Libraries and

advanced search

TOOLS

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- Share
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CONTACT

Patti Richards
MIT News Office
Phone: 617-253-2700
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International ETD Movement (1.8M+)

NDLTD Union Archive

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 - Sat, 24 Mar 2012 07:25:16 UTC
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- 4. no title found
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- 5. no title found
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Collection Statistics

Collection			
CRANFIELD	22		
Australiasian Digital Theses Program	56698		
Ball State University	7153		
Bibliothèque interuniversitaire de la Communauté française de Belgique	271		
Boston College	509		
Bradford Scholars	1417		

Waterloo Electronic Theses Repository	1775
	14
niversity	1132
iversity Theses	829
gital Lib. (India)	5489
Theses and Dissertation	10975
Individual ETDs	18
tucky University Theses	212
University	853
iversität Wien	1093
student MD Thesis	122
Total	1869236

Portal and Archive managed by UCT-CS DLL; CSS courtesy of Free CSS Templates Feeds: |RSS| |OAI-PMH|





Academy of Science of South Africa



previously been the project coordinator of the South African Site Licensing Initiative and the pro-





SciELO @SA

| www.scielo.org.za/scielo.pnp/script=sci_alphabetic&ing=en&nrm=iso







Library Collection

Alphabetic list - 22 serials listed

Current titles - 22 serials listed

- Acta Theologica 7 issues
- Hervormde Teologiese Studies 11 issues
- Historia 3 issues
- Journal of the South African Institution of Civil Engineering 5 issues
- Journal of the South African Veterinary Association 7 issues
- Journal of the Southern African Institute of Mining and Metallurgy 4 issues
- Koedoe 5 issues
- Kronos 3 issues
- Onderstepoort Journal of Veterinary Research 2 issues
- PER: Potchefstroomse Elektroniese Regsblad 19 issues
- Psychology in Society 5 issues
- SA Journal of Industrial Psychology 5 issues
- SA Orthopaedic Journal 8 issues
- SAMJ: South African Medical Journal 36 issues
- South African Journal of Animal Science 10 issues
- South African Journal of Economic and Management Sciences 4 issues
- South African Journal of Education 16 issues
- South African Journal of Science 27 issues
- Tydskrif vir Geesteswetenskappe 7 issues
- Tydskrif vir Letterkunde 6 issues
- Water SA 15 issues
- Yesterday and Today 2 issues





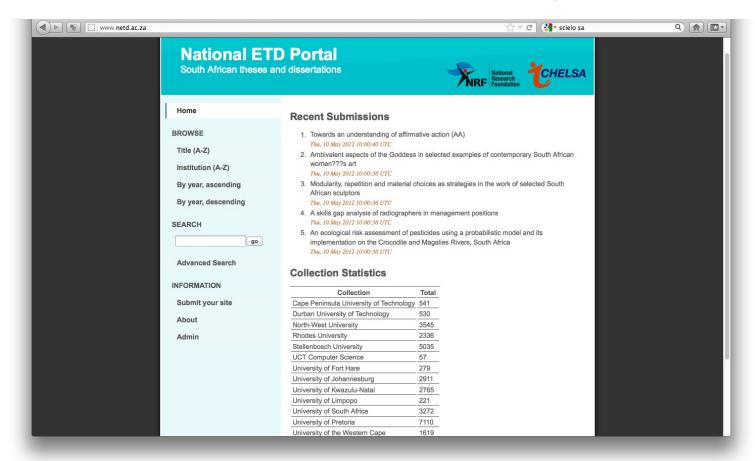
South African National ETD Project

- Collaboration between CHELSA and NRF
- Aims to get every tertiary institution to archive theses in near future.
- National portal for discovery of ETDs.
- Many institutions already have repositories:
 - Rhodes, Wits, Pretoria, SUN, UWC, DUT, Free State, UJ, UNISA, UNW
- NRF is supporting some institutions without capacity in the short term.
 - Fort Hare, Venda, MEDUNSA





South African National ETD Project







South African Repositories

Results 1 - 23 of 23. RSS1 Feed for this Query

Click on a hyperlinked column heading to sort. Click again to reverse the order.

Repository name	Country	Num. Recs.	Pubs	Confs	Theses	Unpub	Other	Base URL	Software
African Higher Education Research Online	South Africa	779	+	+	+	+	+	OAI	[Unknown]
Boloka: Research Repository North-West University	South Africa	6147			+			OAI	DSpace
CSIR Research Space	South Africa	4849		+				<u>OAI</u>	DSpace
Digital Innovation South Africa	South Africa		+	+	+	+	+		[Unknown]
Digital Knowledge	South Africa	383			+	+			Digital Commons
<u>DUT IR</u>	South Africa	589			+				DSpace
Rhodes eResearch Repository	South Africa	2322		+	+			OAI	EPrints
Scientific Electronic Library Online - South Africa	South Africa	207							SciELO
Stellenbosch University SUNScholar Repository	South Africa	17865		+	+		+	OAI	DSpace
UCT Computer Science Research Document Archive	South Africa	514	+	+	+	+		OAI	EPrints
UCT Lawspace	South Africa	197		+	+	+	+		DSpace
UJDigispace	South Africa	4134			+			OAI	DSpace
UKZN ResearchSpace	South Africa	5084			+		+		DSpace
Unisa Institutional Repository	South Africa	4752			+	+	+	OAI	DSpace
University of Fort Hare Institutional Repository	South Africa	275			+				DSpace
University of Limpopo	South Africa	218			+				DSpace
University of Pretoria Electronic Theses and Dissertations	South Africa	7063			+			OAI	ETD-db
University of the Free State ETD	South Africa	720			+				ETD-db
University of the Western Cape Research Repository	South Africa	187		+		+		OAI	DSpace
University of Zululand Repository	South Africa	927			+				DSpace
UPSpace at the University of Pretoria	South Africa	15346		+	+		+	OAI	DSpace
UWC Theses and Dissertations	South Africa	1590			+			OAI	[Unknown]
Wits Unstitutional Repository on DSPACE	South Africa	6329			+	+		OAI	DSpace

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UCT-CS: the story of a repository

UCT CS Research Repository

UCT CS Research
Document Archive

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Welcome to UCT CS Research Document Archive



Welcome to the <u>UCT Computer</u>
<u>Science</u> Research Document
Archive, which archives and makes accessible documents that are products and by-products of research in the department.

Search the Titles, Authors, Abstracts and Keywords :

Search

Browse

Browse the archive by Subject, Year, Lab or Type.

Latest Additions

View items added to the archive in the past week.

Simple Search

Search the archive using the most common fields.

- ☑ Author self-submission
- ☑ Checking of submissions
- ☑ Archive-everything!
- UCT-CS-specific metadata and classification systems
- ☑ Hierarchical browsing
- Simple and fielded searching
- ☑ OAI-PMH compliance





Why we have a repository

- It was faster than simply waiting for UCT!
- CS departments internationally archive technical reports (NCSTRL).
- Research websites don't last long (enough).
- UCT did not have an electronic thesis project then...
- □ We need to improve ACCESS to our work.
- □ We need to preserve our research output.
- Bureaucracy (UCT, NRF, DoE, etc.) requires tracking publications.
- □ We (think we) know what we are doing.





What we archive

- Books and Book Chapters
- Conference Paper and Posters
- Journals (online and paginated)
- Newspaper and Magazine Articles
- Presentation Slides
- Complete Conference Proceedings
- Departmental Technical Reports
- Electronic Theses and Dissertations



What did it take?

- □ The easy part:
 - Hardware: a server somewhere
 - Software: Open Source tools
 - Ongoing support: very little

- □ The hard part:
 - Filling the archive: some persuasion, some convincing, official status
 - Copyright concerns: answering questions (RoMEO)





Departmental Research Overview

OUT OUT RESCRICT DOCUMENT AIGHT

HOITIE II ADOUL II DIOWSE II DEGICII II NEUISLEI II OSEI AIEG II NEID

Year: 2011

Number of records: 58.

Book Chapter

1. Kayem, Anne V.D.M., Patrick Martin and Selim G. Akl (2011) Self-Protecting Access Control: On Mitigating Privacy Violations with Fault Tolerance, in Yee, George, Eds. Privacy Protection Measures and Technologies in Business Organizations: Aspects and Standards. IGI Global.

Conference Paper

- Ali, Mohammed Mustafa, Izzedin Osman and Hussein Suleman (2011) Indexing and Weighting of Multilingual and Mixed Documents. In Brown, Irwin, Kosheek Sewchurran and Hussein Suleman, Eds. Proceedings SAICSIT 2011, pages 161-170, Cape Town, South Africa.
- Bagula, A, M Zennaro and M Nkoloma (2011) Solar Monitoring System in Malawi. In Proceedings ITU
 Kaleidoscope 2011.
- Bagula, Antoine, Oladayo Salami and Anthony Chan (2011) Traffic Engineering Framework for Interworking Multi-hop wireless networks. In *Proceedings IEEE Globecom 2011*, Houston, Texas, USA.
- Bidwell, Nicola J, Mounia Lamas, Gary Marsden, Bongiwe Dlutu, Matt Jones, Bill Tucker, Elina Vartiainen, Iraklis Klampanos and Simon Robinson (2011) Please call ME.N.U.4EVER: Callback & Social Media Sharing in Rural Africa. In Proceedings 10th International Workshop on Internalisation of Products and Systems, pages 117-138, Malaysia.
- Boyinbode, O. K. and A. S. Bagula (2011) An Adaptive and Personalized Ubiquitous Learning Middleware Support for Handicapped Learners. In Proceedings Eighth International Conference on Information Technology: New Generations, pages 632-637, Las Vegas, Nevada, USA.
- Chepken, Christopher and Edwin Blake (2011) Software design for informal setups: Centring the benefits. In *Proceedings SATNAC 2011*, South Africa.





Research Group Overview

UCT CS Research Document Archive

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Laboratory: Collaborative Visual Computing

2007

Conference Paper

- Blake, Edwin, David Nunez and Bertus Labuschagne (2007) Longitudinal Effects on Presence Suspension of Disbelief or Distrust of Naive Belief(2007). In Moreno, Laura, Eds. Proceedings PRESENCE 2007 The 10th Annual International Workshop on Presence, pages 291-295, Barcelona, Spain.
- 2. <u>Labuschagne</u>, <u>Bertus</u>, <u>David Nunez and Edwin Blake (2007) Presence predicts false memories of virtual environment content</u>. In <u>Moreno</u>, <u>Laura</u>, <u>Eds. <u>Proceedings PRESENCE 2007 The 10th Annual International Workshop on Presence</u>, pages 297-301, <u>Barcelona</u>, <u>Spain</u>.</u>

Journal (Paginated)

- 1. Marais, Patrick and James Gain (2007) High fidelity compression of irregularly sampled height-fields. South African Computer Journal 38:40-50.
- 2. <u>Marais, Patrick, James Gain and Dave Shreiner (2007) Distance-Ranked Connectivity Compression of Triangle Meshes Computer. Computer Graphics Forum (earlyOnline).</u>

Other

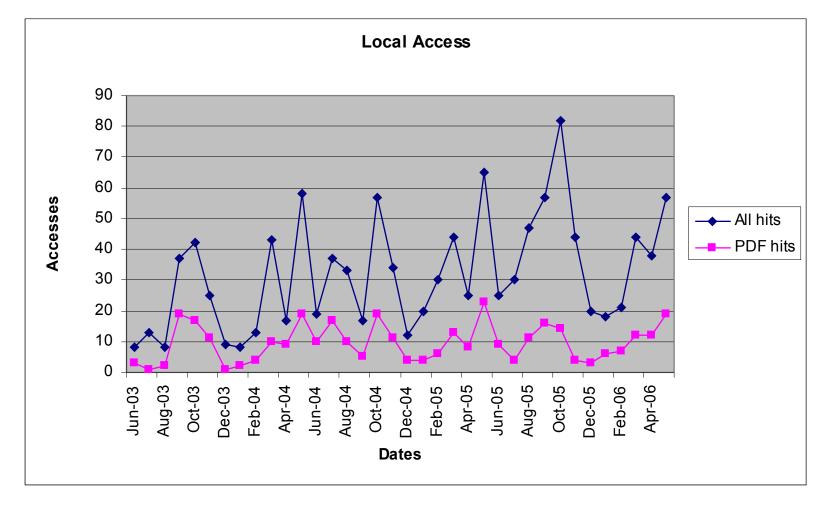
1. Maunder, Andrew, Gary Marsden and Richard Harper (2007) Shoot and Carry.





UCT-CS Evaluation

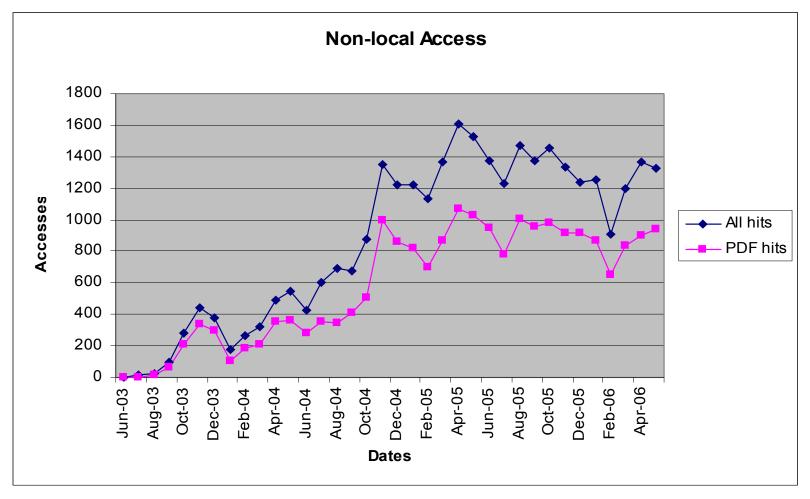
Unique Local IP Addresses







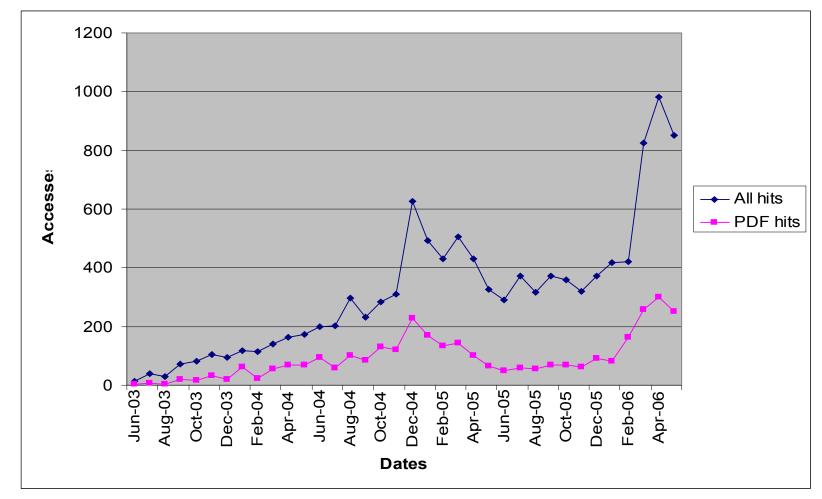
Unique Non-local IP Addresses







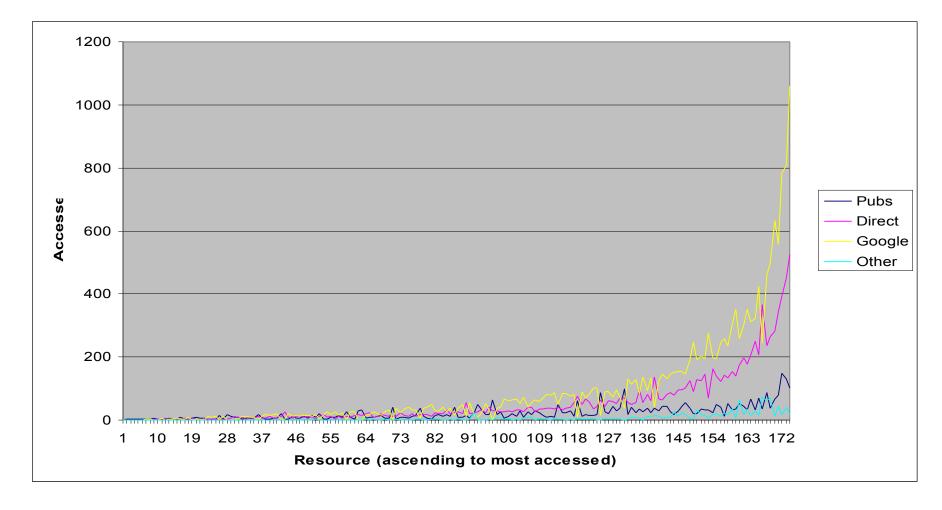
Unique Crawler IP Addresses







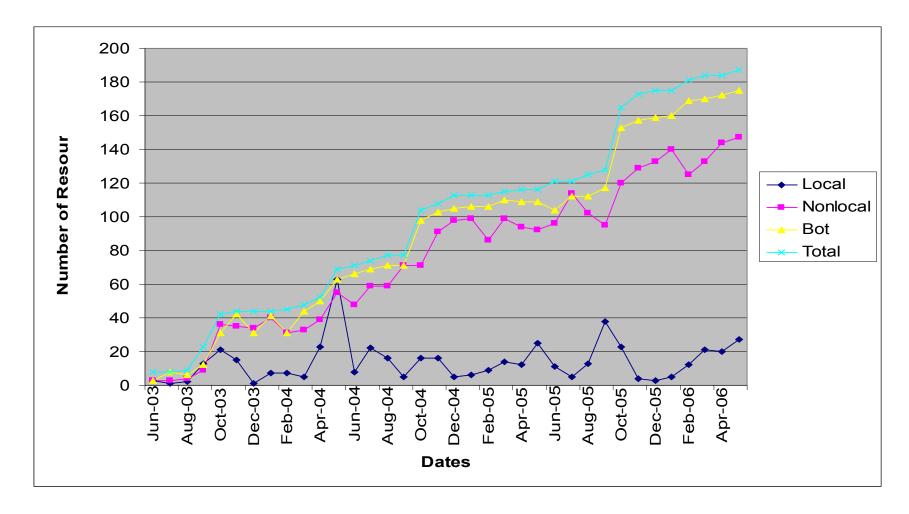
Source of Access







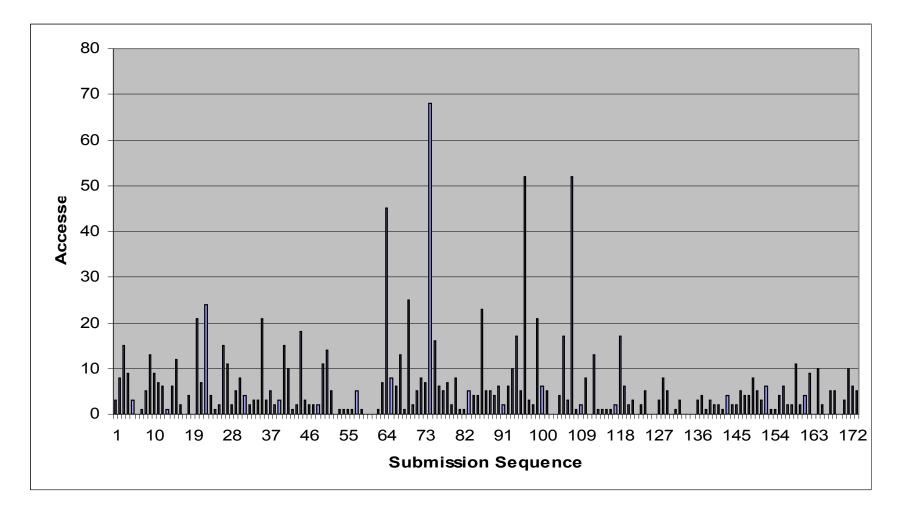
Which Resources are Accessed







Effect of Submission Sequence







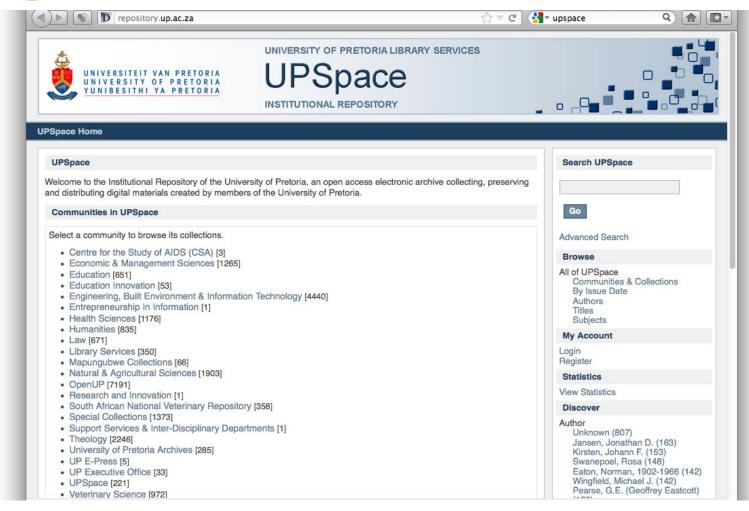
Summary of Statistics

- □ The archive is regularly and aggressively indexed by search services.
- The vast majority of access to resources comes from outside UCT.
- Most users find their way to resources through Google and other search engines.
- □ Most resources are used in most months by both crawlers/harvesters and end users.
- Access appears to be dictated by content, and not age of resources.



So What Is In It For Us?

UPSpace







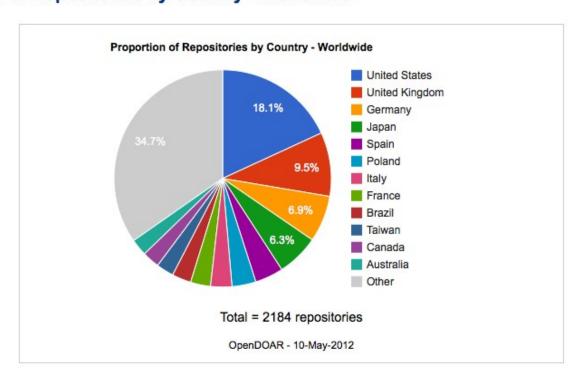
The Big Picture

OpenDOAR

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Proportion of Repositories by Country - Worldwide







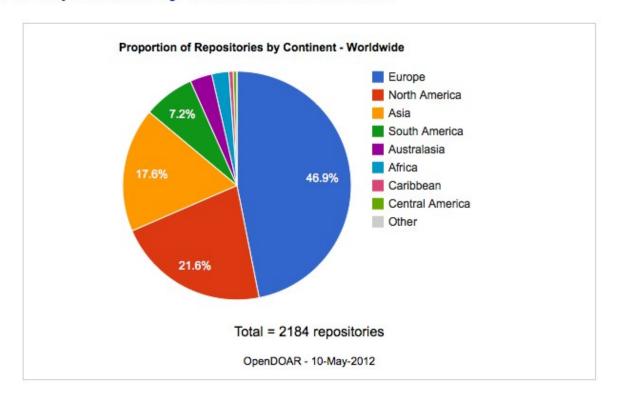
The Bigger Picture

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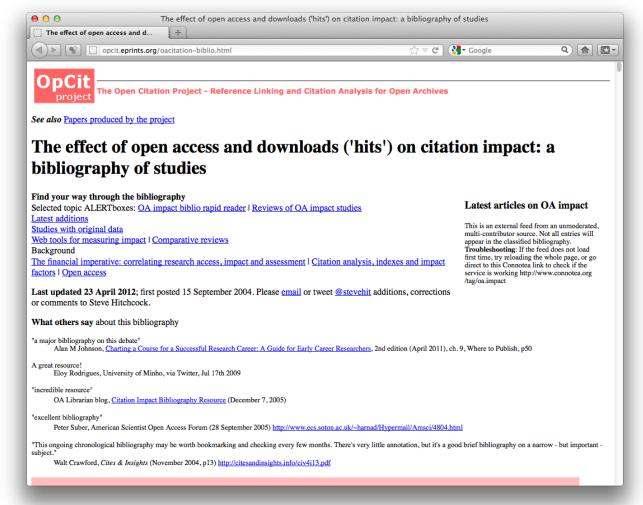
Proportion of Repositories by Continent - Worldwide







Impact of OA







Refuting arguments against Open Access

- □ Expose our poor quality research.
- □ *More work* duplication of effort.
- Open Access is not proven beyond a doubt to be better.
- High quality comes from journals why waste time with low quality online documents?
- □ Paper will last longer.
- □ Not everyone is doing it.
- □ The system is working already!



Arguments for Open Access

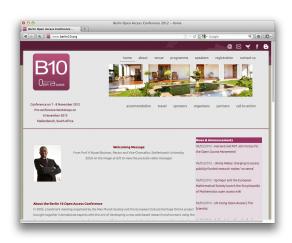
- Increase visibility of research.
- Maintain reputation.
- Link into national / international networks.
- Create stronger culture of publication.
- Maintain access to published works.
- □ Preserve research in long term.
- □ Training resource for new students.
- □ Share research with community/public.
- Required by government/funding agencies.



So where to from here?

- Decide for yourself!
- □ Support your local repository.
- □ Change your way of thinking it is not business as usual in academia...
- OA is only part of a bigger process of the (r)evolution in scholarly communication.

Discussion...



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