



# Growing research in Africa

Stellenbosch University engaging Open Access to  
information

Ina Smith  
University of Ghana  
24 May 2011

# Agenda

- ▶ Strategic Objectives
- ▶ Institutional Repositories
- ▶ SUNScholar
- ▶ Populating SUNScholar
- ▶ Open Access Awareness
- ▶ Conclusion

## FOREWORD

Prof. H. Russel Botman, Rector and Vice-Chancellor

Research at Stellenbosch University (SU) is guided by two notions – excellence and relevance. The idea is to put the best science possible at the service of society. In this way the University strives to provide hope by helping to make the world a better place for all.

Our core activities – which are teaching and learning, research and community interaction – are guided by five key themes from the local and international development agendas. We are convinced that if we work to eradicate poverty and related conditions; promote human dignity and health, and democracy and human rights; encourage peace and security, and support a sustainable environment and a competitive industry, we would have put science to good use.

We call this our HOPE Project. Across our faculties and management structures, our leaders, researchers, academics and students have developed a range of initiatives designed to give expression to our development themes. From inventing an affordable “tea bag” filter that can produce safe drinking water for vulnerable individuals to extending the training of medical doctors into underserved rural areas, SU scientists and academics have consistently excelled at producing useful research and technology. They have proven to be true experts – not only at generating and transferring knowledge, but also at applying it to the benefit of communities in need.

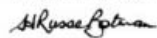
The way that our academics collaborate across disciplines and institutions in the search for solutions to some of humanity's most intractable problems has become a hallmark of SU's efforts to craft new futures for all the people of South Africa and the rest of our continent. SU forms part of initiatives by the National Research Foundation, the Department of Science and Technology and others to make Africa competitive in the international knowledge economy.

We are investing a lot of energy in international research collaboration, and in forging links with scientists and institutions elsewhere in Africa. The goal is to make the continent's voice heard, so that the syndrome of dependency can be reversed and higher education can be strengthened as a resource for Africa's development.

In October 2010, we became the first African university to sign the Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities. SU has established an open access repository, in which we are encouraging our researchers to deposit their output. It is called SUNScholar, and it can be accessed at <https://scholar.sun.ac.za>.

Our vision for South Africa and the rest of the African continent is a future free from poverty, where the human dignity of all people is protected, where our social and ecological systems are healthy, and where peace, security and democracy are safeguarded. We want to play a role in realising this vision.

This publication is an expression of the importance we place on sharing our science and research with others for the benefit of society as a whole. Enjoy!



Prof. H. Russel Botman  
Rector and Vice-Chancellor



“Our vision for South Africa and the rest of the African continent is a future free from poverty, where the human dignity of all people is protected ...

This publication is an expression of the importance we place on sharing our science and research with others for the benefit of society as a whole!” – Prof H Russel Botman, Research at Stellenbosch University 2010

# The HOPE Project

- ▶ Long-term strategic plan
- ▶ Responsibilities as a University (Botman 2010)
  - Moral
  - Historical
  - Embrace challenges of 21<sup>st</sup> century, new generations, new ways of learning, new opportunities for research, harnessing emerging technologies
- ▶ Various projects incl. institutional repository (SUNScholar)

# Leave a scientific footprint in Africa

- ▶ High-level scholarly publication output, sharing data and results
- ▶ Central Open Access fund
- ▶ eRepository Research System
- ▶ African Conference on Open Access and Scholarly Communication (Berlin OA 2012)





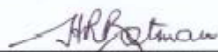
## Berlin Declaration on Open Access to Knowledge in the Sciences and Humanities



Stellenbosch University, a leading research university on the African continent, appreciates the necessity to share its research output with other African countries and the rest of the world. Within this context of sharing its research output, the University would like to append its signature to the growing list of institutions that are signatories to the Declaration.

As a signatory,  
**Stellenbosch University**  
hereby commits to

- (1) implementing a policy that **encourages** their researchers to deposit a copy of all their published articles in an open access repository;
- (2) **encouraging** researchers to publish their research articles in open access journals where a suitable journal exists and provide the support to enable that to happen.

Signed:   
Prof Russel Botman, Rector and Vice-Chancellor  
Stellenbosch University

Date: 20 October 2010

# Institutional Repository (Green)

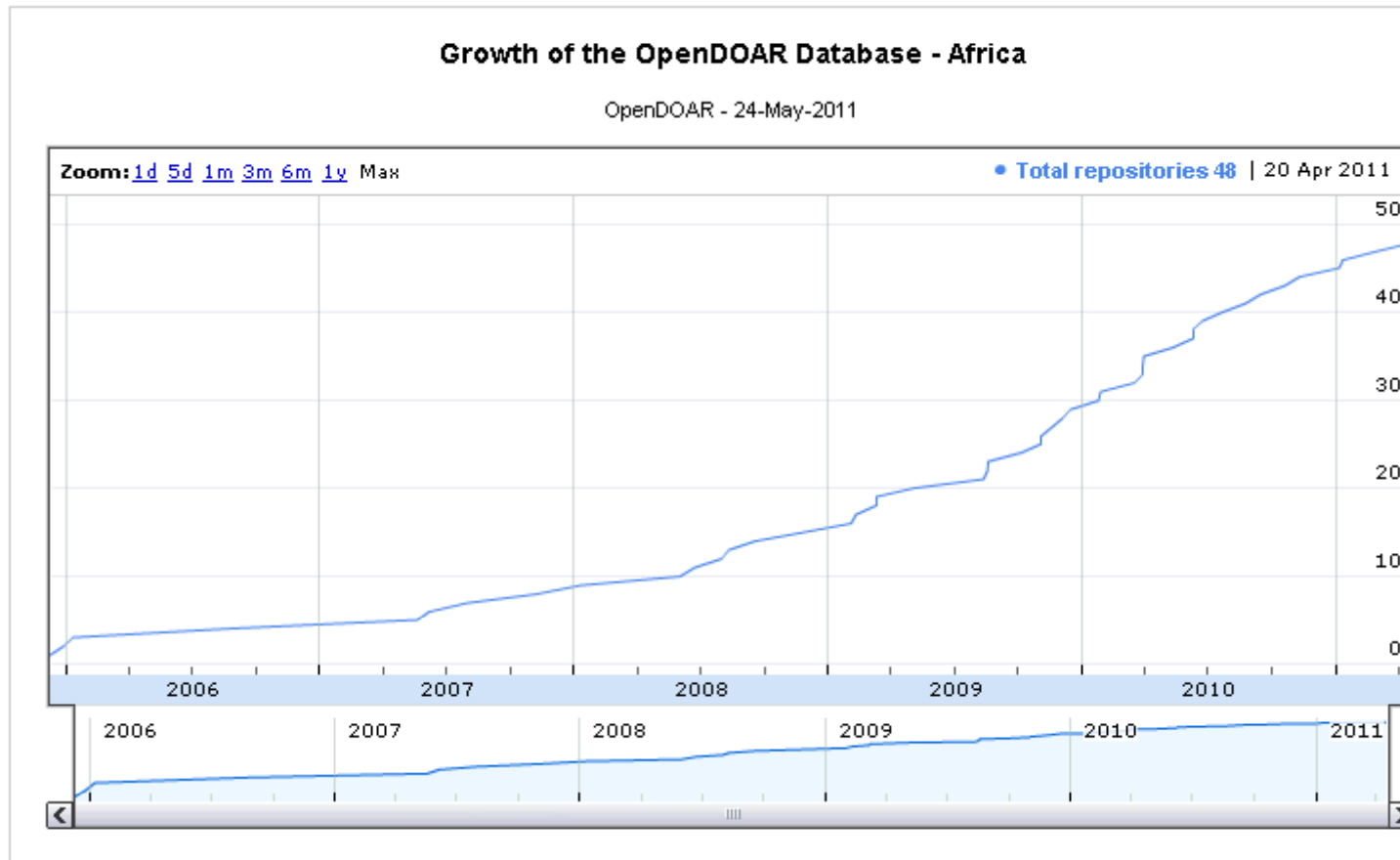
- ▶ Set of services
- ▶ Management & dissemination of digital materials
- ▶ Organizational commitment
- ▶ Stewardship
- ▶ Long-term preservation
- ▶ Organization
- ▶ Open access/ distribution  
(Lynch 2003)

# Benefits

- ▶ Central archive of research assets digitally preserved
- ▶ Showcase & increase profile
- ▶ Increases visibility, usage, impact, citations
- ▶ Attracts world class researchers & researchers from other disciplines
- ▶ Build on completed research
- ▶ Persistent URL's
- ▶ Full text fully searchable
- ▶ Etc.



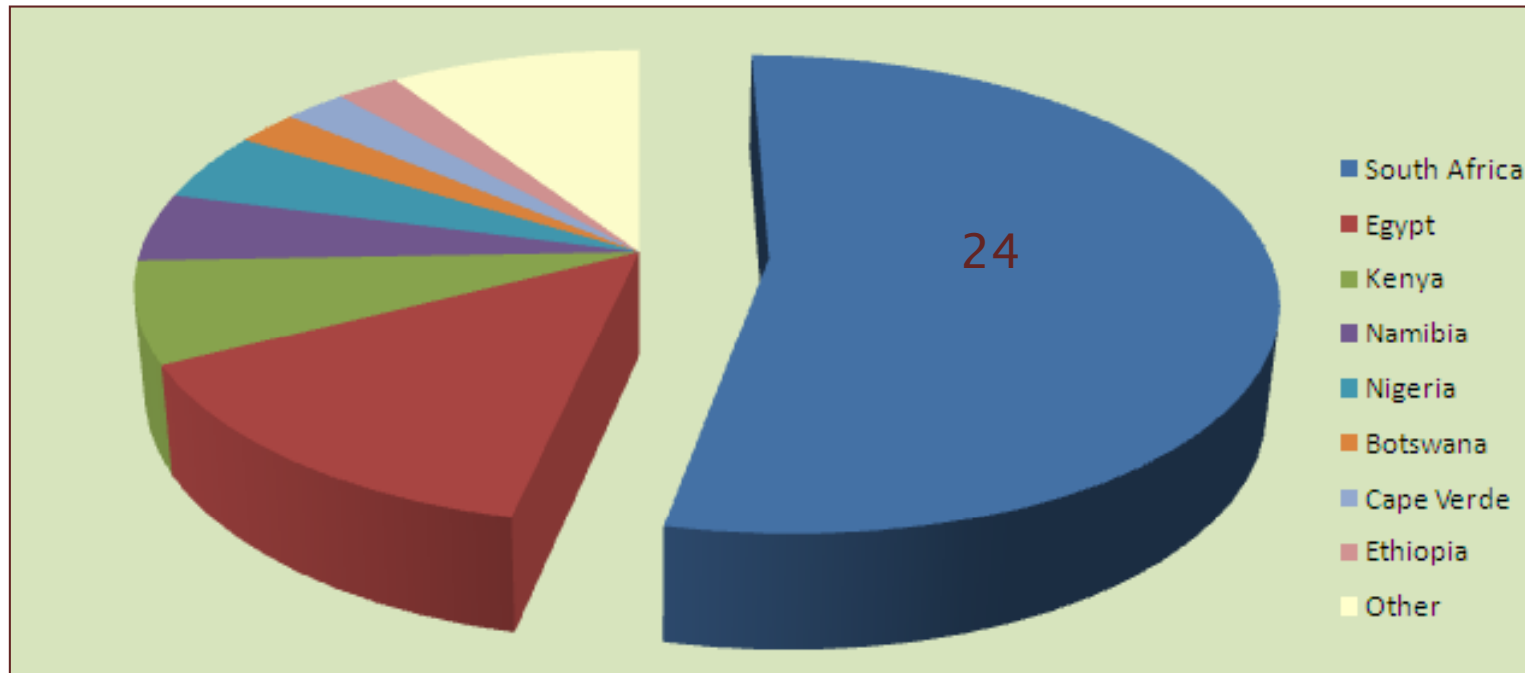
# Growth in Africa



<http://www.openoar.org/onechart.php?cid=Africa&ctID=&rtID=&clID=&IID=&potID=&rSoftWareName=&search=&groupby=r.rDateAdded&orderby=&charttype=growth&width=600&height=350&caption=Growth%20of%20the%20OpenDOAR%20Database%20-%20Africa>

# Distribution in Africa (48)

Internationally = 1 960



<http://www.opendoar.org/onechart.php?cID=Africa&ctID=&rtID=&clID=&IID=&potID=&rSoftWareName=&search=&groupby=c.cCountry&orderby=Tally%20DESC&charttype=pie&width=600&height=300&caption=Proportion%20of%20Repositories%20by%20Country%20-%20Africa>


# SUNScholar

Community List - Mozilla Firefox

File Edit View History Bookmarks Tools Help


http://scholar.sun.ac.za/

Community List Directory of open access journals R&D Journal - SAIMEchE



UNIVERSITEIT  
STELLENBOSCH  
UNIVERSITY

SUNScholar Research Repository



SUNScholar Home Community List

### SUNScholar Research Repository – University of Stellenbosch

SUNScholar is an electronic archive for the collection, preservation and distribution of digital theses, dissertations, research articles, inaugural addresses, conference proceedings etc and is built using [open internet standards](#) with [open source software](#). Please use the standards based [Mozilla Firefox](#) or [Google Chromium](#) internet browsers when working on this repository. Click [here](#) for help and check the links in the page footer for further information.

#### Communities in SUNScholar

Select a community to browse its collections.

- [Faculty of AgriSciences](#) [380]
- [Faculty of Arts and Social Sciences](#) [976]
- [Faculty of Economic and Management Sciences](#) [589]
- [Faculty of Education](#) [166]
- [Faculty of Engineering](#) [490]
- [Faculty of Health Sciences](#) [186]
- [Faculty of Law](#) [25]
- [Faculty of Military Sciences](#) [5]
- [Faculty of Science](#) [440]
- [Faculty of Theology](#) [85]
- [University of Stellenbosch](#) [291]

#### Search SUNScholar

Advanced Search

#### Browse

- All of SUNScholar
  - Communities & Collections
  - By Issue Date
  - Authors
  - Titles
  - Subjects

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<http://scholar.sun.ac.za>

12 486 records

IT  
CH  
Y



SUNScholar Research Repository



SUNScholar Home Faculty of Health Sciences

## Faculty of Health Sciences

Search within this community and its collections:

Go

[Advanced Search](#)

[Check the libopedia wiki page for more details](#)

### Sub-communities within this community

- [Centre for Health Sciences Education](#) [1]
- [Department of Anaesthesiology and Critical Care](#) [0]
- [Department of Biomedical Sciences](#) [41]
- [Department of Interdisciplinary Health Sciences](#) [85]
- [Department of Medical Imaging and Clinical Oncology](#) [5]
- [Department of Medicine](#) [10]
- [Department of Obstetrics and Gynaecology](#) [8]
- [Department of Paediatrics and Child Health](#) [0]
- [Department of Pathology](#) [24]
- [Department of Psychiatry](#) [9]
- [Department of Surgical Sciences](#) [2]
- [Faculty of Health Sciences \(former Departments\)](#) [0]

### Collections in this community

- [Inaugural Addresses \(Health Sciences\)](#) [1]

### Recent Submissions

#### [HIV-1 viral load assays for resource-limited settings : clades matter](#)

Preiser, Wolfgang; Drexler, Jan Felix; Drosten, Christian (*Public Library of Science*, 2006-12)

#### [Ultrasensitive monitoring of HIV-1 viral load by a low-cost real-time reverse transcription-PCR assay with internal control for the 5' long terminal repeat domain](#)

Drosten, Christian; Panning, Marcus; Drexler, Jan Felix; Hänsel, Florian; Pedroso, Celia; Yeats, Jane; Samuel, Matthew; Liedigk, Britta; Lippert, Ute; Stürmer, Martin; Doerr, Hans Wilhelm; Brites, Carlos; Preiser, Wolfgang; De Souza Luna, Luciano Kleber (*American Association for Clinical Chemistry*, 2006-04)

#### [Pandemic influenza A \(H1N1\) 2009 : the experience of the first six months](#)

Maritz, Jean; Maree, Leana; Preiser, Wolfgang (*Walter de Gruyter*, 2010-04)

### Search SUNScholar

Go

- Search SUNScholar
- This Collection

[Advanced Search](#)

### Browse

- All of SUNScholar
  - Communities & Collections
  - By Issue Date
  - Authors
  - Titles
  - Subjects
- This Community
  - By Issue Date
  - Authors
  - Titles
  - Subjects

### My Account

- My Exports
- Login
- Register

### Statistics

- View Statistics

# DSpace Open Source Software

The screenshot shows the DSpace website interface. On the left is a navigation menu with categories: ABOUT DSPACE, GETTING STARTED (with sub-links: Quickstart Guide, Current Release, New User Training, FAQ, Service Providers, Community), USERS / DEVELOPERS, NEWS AND EVENTS, and RESOURCES (with sub-links: Wiki, Feature / Issue Tracking). Below the menu is the DORASPACE logo. On the right, there is a font size selector (A A A), a search bar with a 'Go' button, and radio buttons for 'www' and 'DSpace'. The main content area features a 'Current Release' section with a download icon and a 'Download Now' button. Below this is a 'New Features and Improvements' section containing a list of updates and a 'Release Links' sidebar with links to Virtual Application, Documentation, Feature/Issue Tracking, Release Notes, Training Materials, Platform Roadmap, and Upcoming Release Plans. At the bottom of the main content, there is a note about version history and release notes.

**DSpace**

Font Size: A A A

Search  Go

www  DSpace

**ABOUT DSPACE**

**GETTING STARTED**

- Quickstart Guide
- **Current Release**
- New User Training
- FAQ
- Service Providers
- Community

**USERS / DEVELOPERS**

**NEWS AND EVENTS**

**RESOURCES**

Wiki

Feature / Issue Tracking

**DORASPACE**

**Current Release**

DSpace 1.7.1 can be downloaded from the files area in [SourceForge](#) (Zip) or via [SVN](#).

**New Features and Improvements**

DSpace 1.7.1 is a bug-fix release of DSpace. This latest update resolves several key issues, along with a medium-level SECURITY ISSUE in our 1.7.0 release (See [DS-858](#)). DSpace 1.7.1 does not introduce any new features, it just resolves issues found in 1.7.0.

Other key issues resolved in DSpace 1.7.1 include:

- \* DSpace 1.7.1 now fully supports Oracle databases (resolves issues with 1.7.0 and Oracle)
- \* Several SWORD-related bugs in DSpace 1.7.0 were resolved
- \* Many other minor issues were resolved. For a full list, please see the [Version History](#)

DSpace 1.7 contains several new features, numerous bug fixes and performance improvements, including:

- \* **Mirage XMLUI Theme**: a new clean, professional looking theme for XMLUI with increased browser compatibility, easier customization and enhanced performance. Click for a [video demo](#).
- \* **DSpace Discovery**: a faceted browse/search interface for XMLUI that gives a deeper and more intuitive look at repository content with auto completion for search and context sensitive browse suggestions. Click for an [informational video](#).
- \* **Archival Information Package (AIP) Backup & Restore**: allows for a backup of DSpace into a generic METS-based structure, that can be used to migrate DSpace content to another system that supports AIPs (DSpace or non-DSpace).
- \* **Curation Administration User Interface**: allows for a series of curation tasks (profile bitstream formats, virus scan, check for required metadata) to be performed on objects in DSpace.
- \* **PowerPoint text extraction**, for searching within PowerPoint slides
- \* **Improved Google Scholar indexing** on metadata and PDF content
- \* **Improved performance and scalability** of DSpace: the code has been thoroughly analyzed by a suite of code quality tools and there have been considerable performance gains with regard to item ingestion and indexing speed
- \* **Automated Unit Testing** of core code: helps the developers ensure the core code of DSpace is as bug free and stable as possible

For more details on the above improvements and a complete list of 1.7 modifications, please refer to the [Version History](#) or the [Release Notes](#).

**Release Links**

- [DSpace Virtual Application](#)
- [Documentation](#)
- [Feature/Issue Tracking](#)
- [Release Notes](#)
- [Training Materials](#)
- [Platform Roadmap](#)
- [Upcoming Release Plans](#)

<http://dspace.org>

<http://wiki.lib.sun.ac.za/index.php/SUNScholar/IR>

SUNScholar - Libpedia - Windows Internet Explorer

http://wiki.lib.sun.ac.za/index.php/SUNScholar

open access

File Edit View Favorites Tools Help

Google openDOAR Search Share Sidewiki Check Translate AutoFill openDOAR stelle... Convert Select

SUNScholar - Libpedia

Log in

Page Discussion Read View source View history Search

# SUNScholar

The Institutional Repository, colloquially called [SUNScholar](#), is an electronic archive for the collection, preservation and distribution of digital theses, dissertations, research articles, inaugural addresses, conference proceedings etc and is built using open internet standards with open source software.

**Search Tips**

- How do I search for a specific type of material, e.g. an article, thesis/dissertation, presentation?
- How do I know which items have been submitted most recently?

**Research Articles**

- How do I clear copyright and submit research articles?
- Who owns the copyright on my work?

**Theses & Dissertations**

- How does the SUNScholar Office deal with embargoed theses/dissertations?
- How do I request that a printed thesis/dissertation be digitized?
- Does the library require any hard copies?
- How do I prepare my thesis/dissertation for submission?
- Do you have any LaTeX templates to use for my thesis/dissertation submission?

**General Information**

- What is Open Access?
- What is digital preservation?
- How does SUNScholar compare to other repositories internationally?
- Click here for more detailed technical information.
- Click here for metadata editing support.

**Social Networks**

- Facebook
- Twitter
- Wordpress Blog

**General Help**

- How do I register?
- Where can I get help on typing special characters in SUNScholar when submitting an item?
- How do I get an RSS news feed for a certain collection?
- Do any restrictions apply to the file size to be submitted?
- How can we help to populate SUNScholar?

**Brochures**

- Your research - cited more, preserved forever!
- Jou navorsing - meer verwysings, veilig vir altyd!
- Searching made easy
- Soektogte maklik gemaak
- Riglyne vir die elektroniese inhandiging van tesisse
- Guidelines for the electronic submission of theses
- Submitting your research to SUNScholar
- Oplaaai van navorsing op SUNScholar

**General Inquiries**

- Paulette Talliard
- Tel: +27 (0)21 808 9046

**Manager**

- Ina Smith
- Tel: +27 (0)21 808 9139

This page was last modified on 11 February 2011, at 17:25.

This page has been accessed 3,764 times.

Done Local intranet 100%



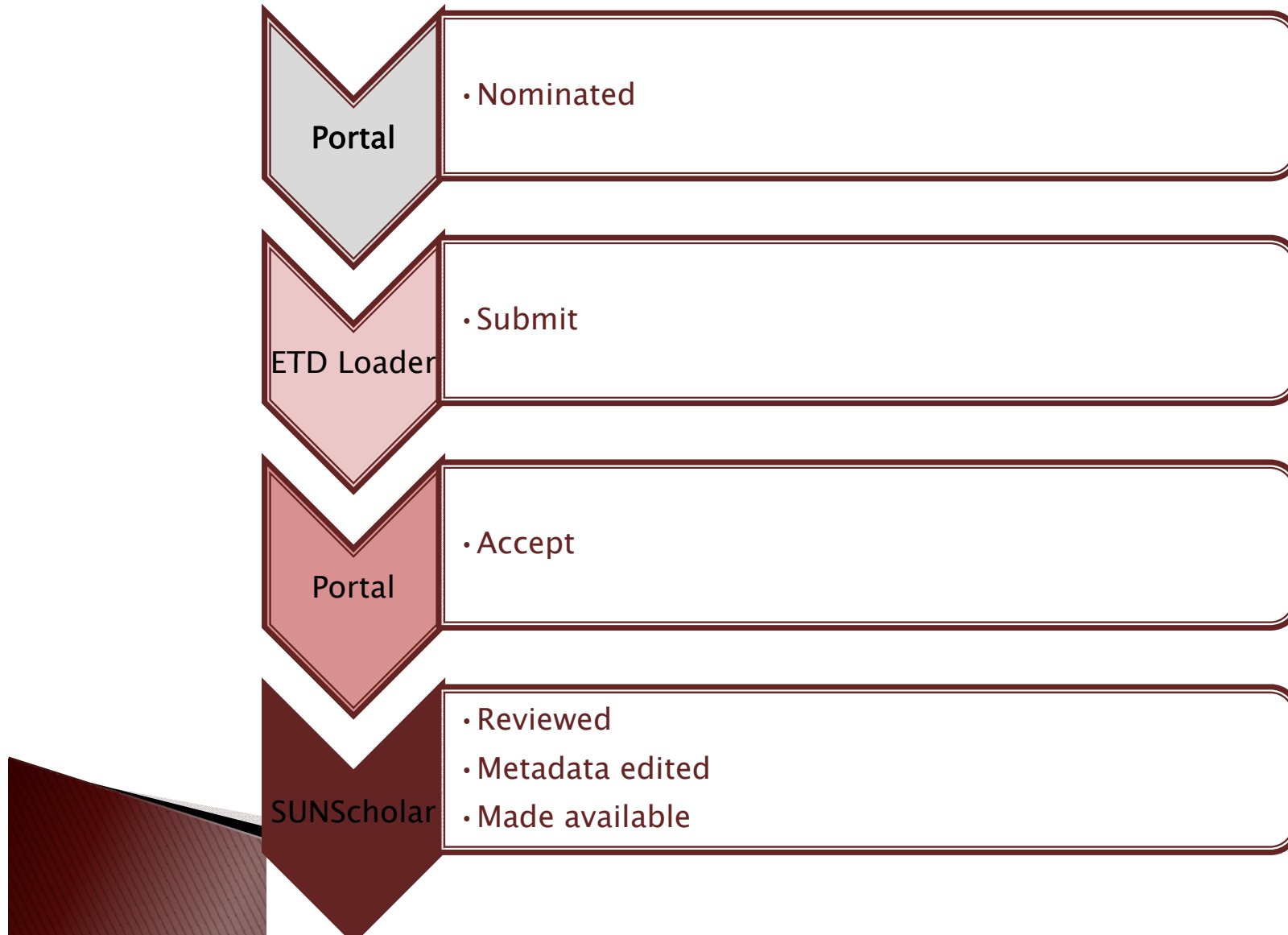
# SUNScholar Road

- ▶ 2008 – 2009: SUNeTD (2 300 items)
- ▶ Dec. 2009: SUNScholar Office
- ▶ 2010 (3 600 items)
  - Merging repositories, Structure, Metadata, Workflows, Roles & responsibilities, Marketing, Training, Upgrade to 1.6.2, Manakin interface, Plug-in's
- ▶ 2011 (12 100 items)

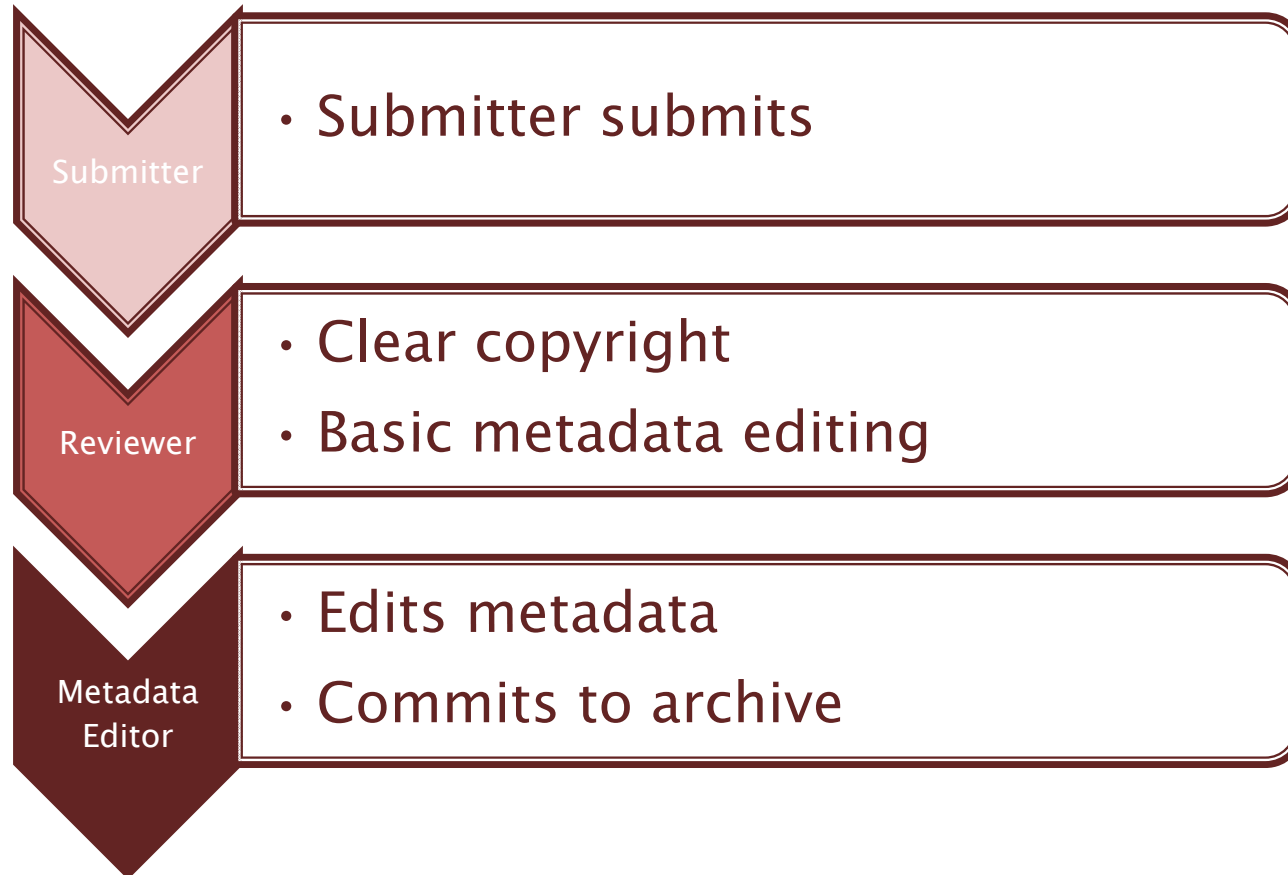
# Items on SUNScholar

- ▶ **Primary:**
  - Research Articles, Chapters in Books, Books, Conference Proceedings, Theses, Dissertations
- ▶ **Secondary:**
  - Inaugural Addresses, Conference Presentations & Posters, Images, Audio- & Audiovisual Clips, Seminars/Open Lectures, Conferences, Experiments, Data sets, and many more!

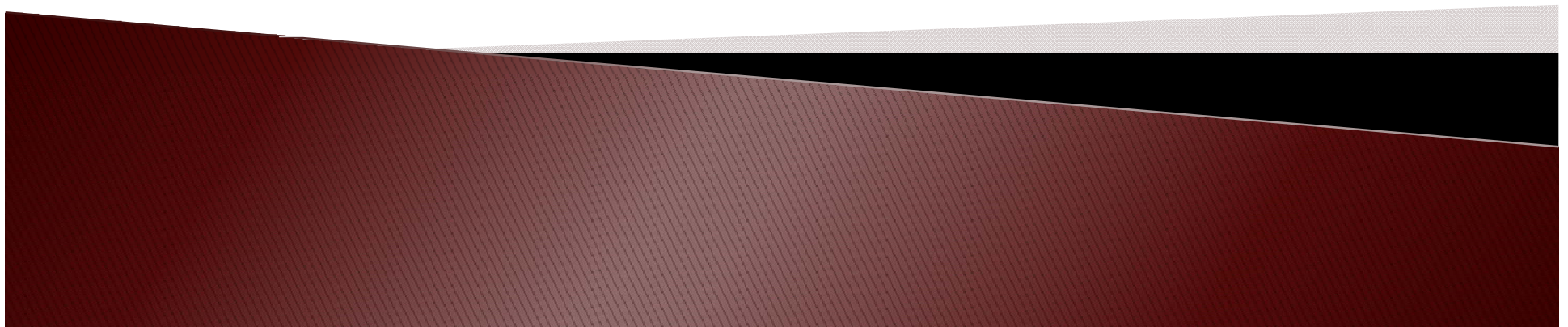
# Workflow: Theses



# Workflow: Articles

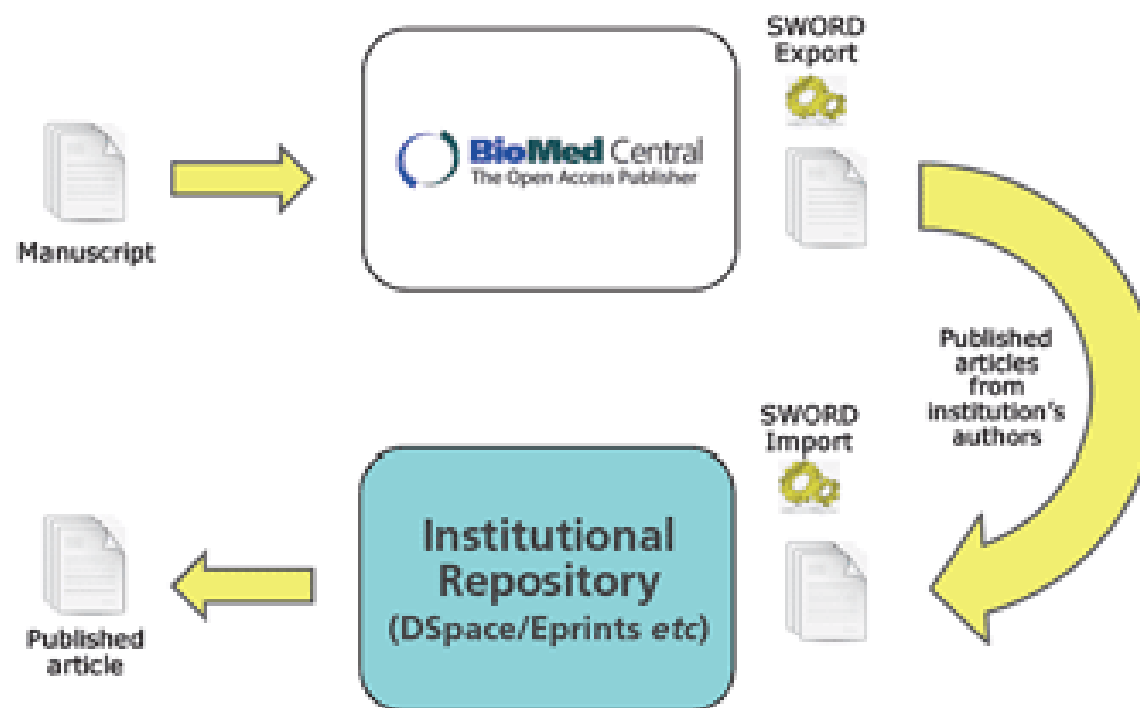


# Populating SUNScholar



# BioMed Article Deposit

## Automated IR deposit via SWORD



<http://www.biomedcentral.com/info/libraries/sword>





Search results for **stellenbosch university** (exact phrase) in author affiliation, restricted to BioMed Central Journals, Current Opinion Journals

42 research articles found

1. **Research article**  
Housing mouse colonization patterns on the sub-Antarctic Kerguelen Archipelago suggest singular primary invasions and resilience against re-invasion  
Hardoon FA, Chapuis R, Strauss M, Jansen van Vuuren B, Quilley R, Scavetta KJ, Trevisan N, Tautz D  
BMC Evolutionary Biology 2010, 10:325 (26 October 2010)  
[Abstract] [Previews] [PDF] [FullText] [Related articles] [CiteSpace](#)

2. **Meeting abstracts**  
Kaposi sarcoma in South African children  
Stefan C, Steiner D, Wainwright L, Newton R  
Infectious Agents and Cancer 2010, 9(Suppl 1):A53 (11 October 2010)  
[Abstract] [Full text] [PDF] [CiteSpace](#)

3. **Meeting abstracts**  
Malignant lymphoma incidence and HIV-related lymphoma subtypes in the Western Cape of South Africa, 2002-2009  
Abayasinghe EK, Semmes A, General A, Sussak G, Basso F, Naarsten D, Jacobs P, Stefan C, Ayers LW  
Infectious Agents and Cancer 2010, 9(Suppl 1):A53 (11 October 2010)  
[Abstract] [Full text] [PDF] [CiteSpace](#)

4. **Research article**  
Predictable patterns of trait mismatches between interacting plants and insects

Submissions & Workflow tasks

Workflow tasks

These tasks are items that are awaiting approval before they are added to the repository. There are two task queues, one for tasks which you have chosen to accept and another for tasks which have not been accepted by you.

Tasks you own

Task	Item	Collection	Submitter
<input type="checkbox"/> Submission being edited	Evidence for a rapid rate of molecular evolution a...	BioMed Central	mail: Matt Brown
<input type="checkbox"/> Submission being edited	Kaposi sarcoma in South African children	BioMed Central	mail: Matt Brown
<input type="checkbox"/> Submission being edited	Axillary nodal metastasis at presentation ...	BioMed Central	mail: Matt Brown
<input type="checkbox"/> Submission being edited	Post 1998 cross functional / m...	Working Papers (Graduate School of Business)	mail: Williams Judy [Jill Williams]
<input type="checkbox"/> Submission being edited	The way forward for the South African construction ...	Working Papers (Graduate School of Business)	mail: Williams Judy [Jill Williams]
<input type="checkbox"/> Submission being edited	Draw up a project plan for Exce...	Masters Degrees (Graduate School of Business)	mail: Williams Judy [Jill Williams]
<input type="checkbox"/> Submission being edited	Developing a systematic appra...	Masters Degrees (Graduate School of Business)	mail: Williams Judy [Jill Williams]
<input type="checkbox"/> Submission being edited	Die invloed van finansie beest...	Masters Degrees (Graduate School of Business)	mail: Williams Judy [Jill Williams]
<input type="checkbox"/> Submission being edited	A portfolio analysis of Sanlam limited	Masters Degrees (Graduate School of Business)	mail: Williams Judy [Jill Williams]
<input type="checkbox"/> Submission being edited	Predictable patterns of trait mismatches between...	BioMed Central	mail: Matt Brown
<input type="checkbox"/> Submission being edited	Test_BMC_package_2	BioMed Central	mail: Matt Brown
<input type="checkbox"/> Submission	Single molecule resolution of...	BioMed Central	mail: Matt Brown

# Scopus Metadata Export



<input type="checkbox"/>	<b>Universiteit Stellenbosch</b> 1 University of Stellenbosch Stellenbosch University <a href="#">Find potential affiliation matches</a>	13640
<input type="checkbox"/>	<b>Tygerberg Hospital</b> 2 University of Stellenbosch Tygerberg Hospital <a href="#">Find potential affiliation matches</a>	1800

Metadata Export  
7 240 records

The screenshot shows the SUNSCholar website interface. At the top, there is a navigation bar with the university logo and links for 'SUNScholar Home', 'University of Stellenbosch', 'University of Stellenbosch Publications', and 'Scopus Stellenbosch University Publications'. Below the navigation bar, the page title is 'Scopus Stellenbosch University Publications'. There is a search bar with a 'Go' button and a link to 'Advanced Search'. A notice states: 'Metadata of articles were exported on 14 May 2011 from Scopus. Full text to be attached and moved to relevant Research Articles Collections per Department. Inquiries: [SUNScholar](#) or Tel: 021 808 9120/6046.' Below the notice, there is a 'Recent Submissions' section with a list of articles, including titles like 'THREE PHASE TRANSFORMERS AS HARMONIC SOURCES IN POWER SYSTEMS', 'HARMONIC VOLTAGE GENERATION DUE TO FILTER COMPONENT TOLERANCES', and 'EFFECT OF METEOROLOGICAL VARIATION ON THE PERFORMANCE OF PHOTOVOLTAIC PANELS'. On the right side of the page, there is a 'Search SUNScholar' section with a search bar and options for 'Search SUNScholar' and 'This Collection'. Below that, there is a 'Browse' section with a tree view of collections and a 'My Account' section with links for 'Login' and 'Register'. At the bottom right, there is a 'Statistics' section with a link for 'View Statistics'. The SUNSCholar logo is visible in the bottom right corner of the screenshot.



# Manual Submissions

A comparison of land unit delineation techniques for land evaluation in the Western Cape, South Africa - Mozilla Firefox

File Edit View History Bookmarks Tools Help

A to Z Index Latest Release - www.dspace.org Internet databases A comparison of land unit delineation tec... +

sun.ac.za https://scholar.sun.ac.za/handle/10019.1/14642

UNIVERSITEIT STELLENBOSCH UNIVERSITY  
SUNSCholar Research Repository

SUNSCholar Home Faculty of Arts and Social Sciences Department of Geography and Environmental Studies Research Articles (Geography and Environmental Studies) View Item

## A comparison of land unit delineation techniques for land evaluation in the Western Cape, South Africa

[Show full item record](#)

**Title:** A comparison of land unit delineation techniques for land evaluation in the Western Cape, South Africa

**Author:** Van Niekerk, Adriaan

**Abstract:** Land evaluation, an integral part of land use planning, has been established as one of the preferred methods to support sustainable land use management. In essence, land evaluation aims to compare and match each potential land use with the properties of individual parcels of land, also called land units. A land unit is an area that is, according to predetermined properties, different from the surrounding land and can be assumed to have homogeneous land properties (e.g. climate, soils, cover). Land components (also called landform elements, terrain units or land surface segments) are often used as land units, mainly because their boundaries frequently coincide with transitions in environmental conditions. Although land components have traditionally been delineated by studying topographical maps, interpreting aerial photographs and making field measurements, such manual mapping techniques are very time-consuming and subjective. Land component maps can be generated more objectively and faster by using computer algorithms. This paper compares the maps produced by three algorithms, namely the automated land component mapper (ALCoM), the iterative self-organizing data analysis technique algorithm (ISODATA) and multi-resolution image segmentation (MRS), to determine which technique produces the most homogenous and morphologically representative land components for an area in the Western Cape province of South Africa. The results revealed that the three methods produced significantly different land component maps. While ISODATA's units were relatively homogenous, their boundaries rarely followed morphological discontinuities. ALCoM performed better in delineating land components along terrain discontinuities, but produced relatively heterogeneous land components. Overall, MRS performed consistently well and was significantly more sensitive to morphological discontinuities than the other two methods tested. Land use managers should, however, use MRS with care as more research is needed to determine what effect its different input parameters have on land unit boundaries.

**Description:** The original publication is available at [www.elsevier.com](http://www.elsevier.com)

**URI:** <http://hdl.handle.net/10019.1/14642>

**Date:** 2010-07

### Files in this item

Files	Size	Format	View	Description
<a href="#">vanniekerk_comparison_2010_postprint.pdf</a>	979.6Kb	PDF	<a href="#">View/Open</a>	Post-print Version
<a href="#">vanniekerk_comparison_2010_publisher.pdf</a>	1.747Mb	PDF	<a href="#">View/Open</a>	Publishers' Version

This item appears in the following Collection(s)

- [Research Articles \(Geography and Environmental Studies\)](#) [2]

Search SUNSCholar

Search SUNSCholar  
 This Collection

Advanced Search

### Browse

- All of SUNSCholar
  - Communities & Collections
  - By Issue Date
  - Authors
  - Titles
  - Subjects
- This Collection
  - By Issue Date
  - Authors
  - Titles
  - Subjects

### My Account

- Login
- Register

### Statistics

- View Statistics

UNIVERSITEIT STELLENBOSCH UNIVERSITY

"A comparison of land unit delineation techniques for land evaluation in the Western Cape, South Africa" - Google Search - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.google.co.za/search?q="A+comparison+of+land+unit+delineation+techniques+for+land+evaluation+in+the+Western+Cape%2C+South+Africa"&bi...

Web Images Maps News Translate Books Gmail more

Web History | Search settings | Sign in

Google

"A comparison of land unit delineation techniques for land evaluation in the Western Cape, South Africa" Search

About 30 results (0.21 seconds) Go to Google.com Advanced search

Win Free Whorush access from SeoQuake answering 4 questions!

Top of the list!

Sort: PR: 1 2 3 4 5 I: 1 2 3 4 5 LD: 1 2 3 4 5 I: 1 2 3 4 5 Rank: 1 2 3 4 5 Age: 1 2 3 4 5 I: 1 2 3 4 5 Sitemap: 1 2 3 4 5 Rank: 1 2 3 4 5

**A comparison of land unit delineation techniques for land ...**

by A Van Niekerk - 2010  
 Title: **A comparison of land unit delineation techniques for land evaluation in the Western Cape, South Africa.** Author: Van Niekerk, Adriaan ...  
 scholar.sun.ac.za/handle/10019.1/14642 - Cached

SeoQuake: PR: n/a I: 75,100 LD: 515 I: 1,580 Rank: 41014 Age: n/a I: 0 whois source Sitemap: yes Rar

Dr. Adriaan van Niekerk

**A comparison of land unit delineation techniques for land evaluation in the ...**

www0.sun.ac.za/geography/index.php?option=... - Cached - Similar

SeoQuake: PR: 1 I: 81,200 LD: 2,275 I: 5,470 Rank: 41014 Age: April 11, 1997 I: 0 whois source Sitemap

Faculty of Arts and Social Sciences

**A comparison of land unit delineation techniques for land evaluation in the ...**

scholar.sun.ac.za/handle/10019.1/11 - Cached

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SeoQuake: PR: 5 I: 75,100 LD: 515 I: 1,580 Rank: 41014 Age: n/a I: 0 whois source Sitemap: yes Rar

**A comparison of land unit delineation techniques for land ...**

by A van Niekerk - 2010  
 7 Dec 2009 ... **A comparison of land unit delineation techniques for land evaluation in the Western Cape, South Africa.** Adriaan van Niekerk Corresponding ...  
 Introduction - Materials and methods - Segmentation algorithms - Study area  
 linkinghub.elsevier.com/retrieve/pii/S0264837709002105

SeoQuake: PR: 3 I: 7,180,000 LD: 667,604 I: n/a Rank: 4020 Age: wait... I: 0 whois source Sitemap: no

Scopus Author Directory - Ekasingh, Methi (Methi Ekasingh)

**A comparison of land unit delineation techniques for land evaluation in the Western Cape, South Africa (2010) Land Use Policy ...**

www.scopus.com/authorid/detail.url?authorid=6506817566

SeoQuake: PR: n/a I: 817,000 LD: 1,389,815 I: 4,710 Rank: 33175 Age: December 26, 1996 I: 0 whois source

Read seoquake.com



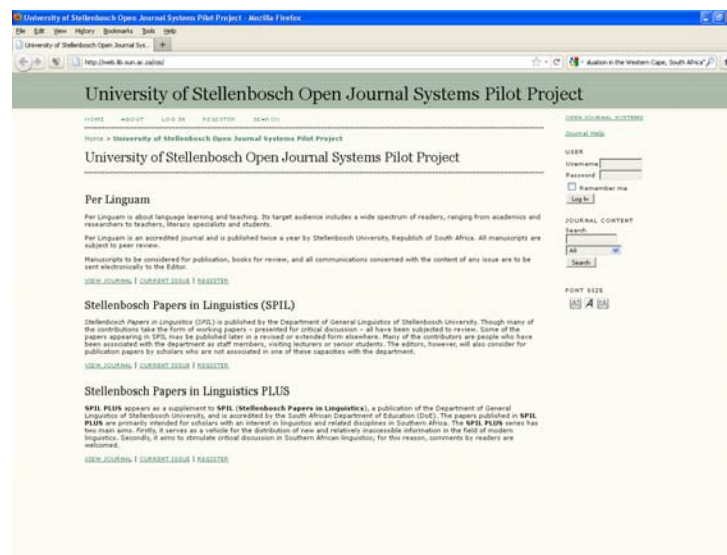


# Submission Process

The image displays a sequence of five screenshots from the SUNScholar submission process, numbered 1 through 5, overlaid on a dark background. The screenshots show the following steps:

- Step 1:** The 'Item submission' page with the 'Collection' dropdown menu open, showing a list of available collections.
- Step 2:** The 'Item submission' page with the 'Author' field filled in.
- Step 3:** The 'Item submission' page with the 'Subject keywords' field filled in.
- Step 4:** The 'Item submission' page with the 'File Description' field filled in.
- Step 5:** The 'Item submission' page showing the 'Distribution License' section, where the user is prompted to select a license and click 'Complete Submission'.

# SUNJournals SWORD deposits



Articles by SU authors automatically deposited into SUNScholar



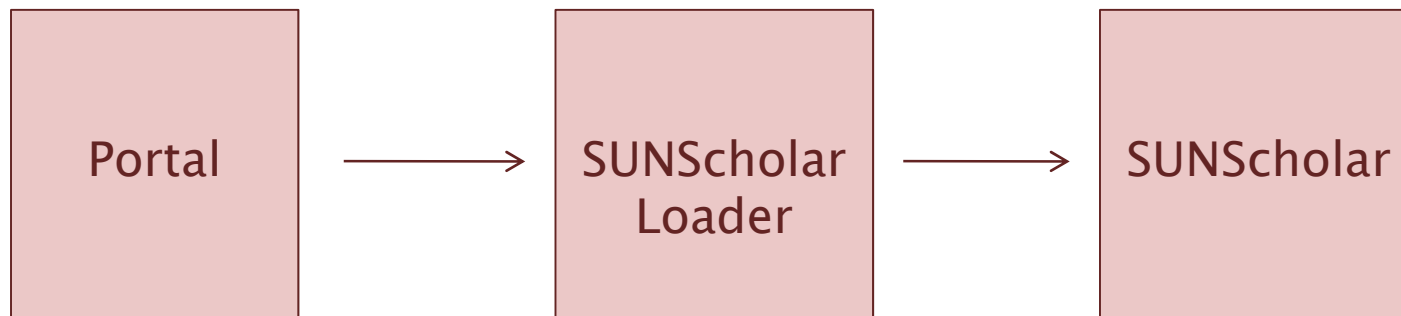
[SUNScholar Home](#) [University of Stellenbosch](#) [University of Stellenbosch Publications](#) [Scopus Stellenbosch University Publications](#)





# Submission of theses & dissertations

- ▶ March & December graduations
- ▶ Mandatory to submit electronic version of thesis/dissertation prior to graduation



# Statistics on various levels

## Statistics

### Total Visits

	Views
Stellenbosch University Library Open Access Seminar 2010	80

### Total Visits Per Month

	November 2010	December 2010	January 2011	February 2011	March 2011	April 2011	May 2011
Stellenbosch University Library Open Access Seminar 2010	0	0	0	0	42	29	9

### Top country views

	Views
United States of America	37
South Africa	30
Hong Kong	5
Germany	2
Russian Federation	2
Czech Republic	1
India	1
Ukraine	1

### Top cities views

	Views
Stellenbosch	10
Cape Town	6
Seattle	5
Houston	4
Kwai Chung	4
Pretoria	4
Boksburg	2
Frankfurt Am Main	2
Moscow	2
Sezela	2

- Dashboard
- Intelligence Beta
- Visitors
- Traffic Sources
- Content
- Goals

Custom Reporting

- My Customizations
- Custom Reports
  - Advanced Segments
  - Intelligence Beta
  - Email

- Help Resources
- About this Report
  - Conversion University
  - Common Questions

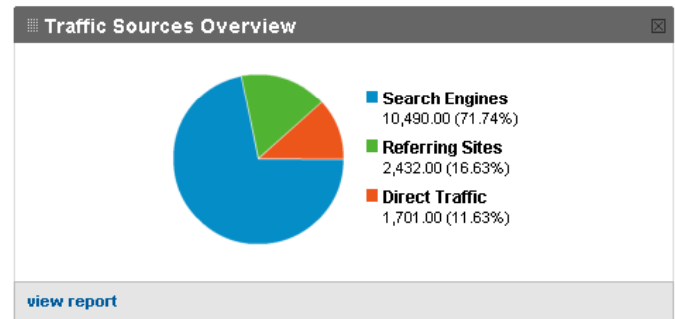
Export Email Advanced Segments: All Visits

Dashboard Apr 23, 2011 - May 23, 2011



Site Usage

- 14,623 Visits
- 66.13% Bounce Rate
- 49,390 Pageviews
- 00:02:08 Avg. Time on Site
- 3.38 Pages/Visit
- 84.37% % New Visits



Content Overview

Pages	Pageviews	% Pageviews
/	2,419	4.90%
/admin/item	1,817	3.68%
/browse	709	1.44%
/search	649	1.31%
/handle/10019.1/11	452	0.92%

view report



# Open Access Journals (Gold)

Directory of open access journals - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www.doaj.org/doaj?func=findJournals&hybrid=&query=R+%26+D+Journal

Stellenbosch University

DOAJ DIRECTORY OF OPEN ACCESS JOURNALS

SPARC EUROPE AWARD 2009 For Outstanding Achievements in Scholarly Communications SPARC EUROPE

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Feedback

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For authors

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R & D Journal

Find journals

found 1 journals matching your query

R&D Journal

ISSN: 02579669

Subject: [Mechanical Engineering](#)

Publisher: South African Institution of Mechanical Engineering (SAIMechE)

Country: South Africa

Language: English

Keywords: mechanical engineering

Start year: 2001

found 1 journals matching your query

DOAJ - Directory of Open Access Journals, 2010, [Lund University Libraries](#), Head Office

Open Journal Systems | Public Knowledge Project - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://pkp.sfu.ca/?q=ojs

OJS OCS OMP OHS PKP Wiki Forum

# PKP | PUBLIC KNOWLEDGE PROJECT

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  - ▶ Open Conference Systems
  - ▶ Open Harvester Systems
  - ▶ Lemon8-XML
    - Open Monograph Press
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  - ▶ Research
  - Publications
  - Contact

## Open Journal Systems

"Scholars need the means to launch a new generation of journals committed to open access, and to help existing journals that elect to make the transition to open access..."  
*Budapest Open Access Initiative, 2002*

Open Journal Systems (OJS) is a journal management and publishing system that has been developed by the Public Knowledge Project through its federally funded efforts to expand and improve access to research.

### OJS Features

1. OJS is installed locally and locally
2. Editors configure requirements, s
3. Online submission and management of all content.
4. Subscription module with delayed open access options.
5. Comprehensive indexing of content part of global system.
6. Reading Tools for content, based on field and editors' choice.
7. Email notification and commenting ability for readers.
8. Complete context-sensitive online Help support.

OJS assists with every stage of the refereed publishing process, from submissions through to online publication and indexing. Through its management systems, its finely grained indexing of research, and the context it provides for research, OJS seeks to improve both the scholarly and public quality of refereed research.

OJS is open source software made freely available to journals worldwide for the purpose of making open access publishing a viable option for more journals, as open access can increase a journal's readership as well as its contribution to the public good on a global scale (see [PKP Publications](#)).

Increase impact factor



- Navigation
- Libpedia
- Recent changes
- Help
- Toolbox
- What links here
- Related changes
- Special pages
- Printable version
- Permanent link
- Print as PDF
- Browse properties

Page Discussion Read Edit View history  Go Search

# SUNJournals

- Contents** [hide]
- 1 About SUNJournals
  - 2 SUNJournals Pilot Project
  - 3 Information for Journal Managers
  - 4 To-do List
  - 5 Help for Authors
  - 6 Mailing List

## About SUNJournals [edit]

The implementation of a platform to host (open access) online journals is a collaborative effort between the Library and Information Service and departments and units affiliated with the University, in support of the mission and strategy of the University of Stellenbosch. SUNJournals is the name of the service offered to our clients. OJS open source software is used as a hosting platform. [Open Journal Systems \(OJS\)](#) is a journal management and publishing system that has been developed by the Public Knowledge Project through its federally funded efforts to expand and improve access to research. [Read more about OJS](#)

[List of Stellenbosch University Journals](#)

## SUNJournals Pilot Project [edit]

An Editors' Workshop was hosted on 20 April 2011 as part of the SUNJournals pilot project. The following 6 journals will form part of the pilot project (April - December 2011):

- SPIL
- [ORION](#)
- Per Linguam
- African Zoology
- Scientia Militaria
- Lexikos

## Information for Journal Managers [edit]

Please click on the heading above.

## To-do List [edit]

Please click on the heading above.


## Help for Authors [edit]

1. I am an author and wants to submit an article. Where do I start?

People

- Advisory Board
- USB Management
- Academic staff >
- Support staff >

### Research Items

 **Wim GEVERS**

**2010**

**Doctoral projects (current)**

**CASARIN, P.** The Diffusion of Internet-Enabled Business in South Africa. *Promotor: Dr AP Burger; Co-promotor: Prof WR Gevers. 2010.*

**CHETTIAR, VSM.** An Investigation into the Role of Demand Response Programs (DRP) for the Ancillary Services (AS) and Least-Cost Utility Service Provision: The Case of Eskom. *Promotor: Prof PM Sotkiewicz; Co-promotor: Prof WR Gevers. 2010.*

**CRUYWAGEN, M.** Roadmaps to Becoming Knowledge-Centric Organisations: A Systemic Approach to Knowledge Management. *Promotor: Dr J Swart (Univ van Bath, Engeland); Co-promotor: Prof WR Gevers. 2010.*

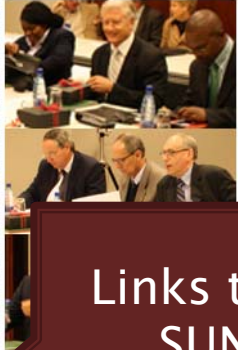
**Master's projects (current)**

**OBERHOLSTER, JH.** Agricultural Credit Risk Management using Artificial Neural Networks and Expert Systems. *Promotor: Prof WR Gevers. 2010.*

**2008**

**Journal articles in non-DOE Journals**

**CRUYWAGEN M, SWART J, GEVERS WR.** One size does not fit all - towards a typology of knowledge-centric organisations. *Electronic Journal of Knowledge Management 2008; 6(2) : 101-110. 2008.*



Links to items on SUNScholar

Home Search Contact Us Directions to campus

**USB**  
University of Stellenbosch Business School


USB Communities: [Students](#) | [Alumni](#) | [Staff](#)

- Degrees ▾
- About Us ▾
- International ▾
- News & Events ▾


People

- Advisory Board
- USB Management
- Academic staff >
- Support staff >

### Research Items

 **John POWELL**

- Research Articles
- Conference Proceedings
- Research papers
- Chapters in Books
- Creative Work
- Doctoral Degrees
- Masters Degrees



Links to Collections /search on SUNScholar



# Links from web page to full text on SUNScholar

The screenshot shows the USB University of Stellenbosch Business School website. The page is titled "Research" and features a navigation menu with options like "Degrees", "About Us", "International", "News & Events", "Publications", "Research", and "People". A red arrow points to the "Journal articles in DOE Journals" section for the year 2010, specifically to the article by Drotskie A & Herbst FJ. The article title is "The total customer experience as a sustainable strategic differentiator. *Journal of Contemporary Management*, 7: 191-207. 2010." Below this, there are sections for 2009 and 2008, each listing "Journal articles in DOE Journals" with author names and brief descriptions of their work. On the right side, there is a "Related Links" section with links to "USB leaders lab journal", "Research centres", "Research journals", and "New thinking".

- All academic research**
- [Full list of USB's academic research](#)
  - [Articles in accredited journals](#)
  - [Articles in non-accredited journals](#)
  - [Proceedings: international](#)
  - [Proceedings: national](#)
  - [Papers: international](#)
  - [Papers: national](#)
  - [Books](#)
  - [Chapters in books](#)
  - [Research reports](#)
  - [Creative work](#)
  - [Doctoral research in progress](#)
  - [Doctoral research completed](#)
  - [MBA research projects in progress](#)
  - [MBA research projects completed](#)

# International Harvesters & Registries

SCIRUS  
for scientific information only

OAlster  
...find the pearl

OCLC® The world's libraries.  
Connected.™

Digital Repository Infrastructure Vision for European Research  
driver

Google™  
Scholar BETA

DSPACE

Google™  
South Africa

OpenDOAR

The Directory of Open Access Repositories - OpenDOAR

IRSpace - Search SA research repositories

Google™ Custom Search



# Opportunities ...



UNIVERSITEIT  
STELLENBOSCH  
UNIVERSITY

# Creating an OA awareness

- ▶ 2<sup>nd</sup> copy of article on SUNScholar
- ▶ Publish in OA journals
- ▶ Alternative ways of licensing
- ▶ SPARC Addendum, The Scholar's Copyright Addendum Engine
- ▶ Workshops (for editors, DSpace)
- ▶ Pool of expertise re Open Source
- ▶ Open Access Initiatives e.g. OA Week – OA Seminar <http://oa.sun.ac.za>  
Explored new technologies – ways to share and communicate research

# Seamless integration between RIMS/InfoEd & SUNScholar

## Research Report System

With links to full text

STELLENBOSCH UNIVERSITY

RESEARCH REPORT 2008

Editor: Senior Director  
(Research and Innovation)  
Stellenbosch University  
Stellenbosch  
7602

**Research Report**  
**Meganiese & Megatroniese Ingenieurswese : 2009**

**Abstracts:** The Research Report format publications have now been updated. If you need any printed info, the format on the report, please contact the SA Administrator at the following link.

**Journal Articles (subscribed)**

BLAZNE DC, PARK S-J, GERMAN RM. Linearization of Master Sintering Curve. *Journal of the American Ceramic Society*. 2009; 92(7) : 1400-1409.

BRINK Y, GROEN LQ, LOUW QA, GELHNER-SOHNERS N, SCHREVE K. The association between postural alignment and psychosocial factors to upper quadrant pain in high school students: A prospective study. *Neural Therapy*. 2009; 14(6) : 1647-1653.

BRINK Y, HILLIER S, LOUW QA, SCHREVE K. The influence of computer use on the sitting posture of high school students who develop neck and shoulder pain. *South African Journal of Physiotherapy/Suid-Afrikaanse Elektroterapeutiese Tydskrif*. 2009; 65(2) : 21-26.

BRIDOWER BK, GEORNWOLD A. Fuzzy relational clustering based on comparing two proximity matrices with utilization of particle swarm optimization. *Soft Computing*. 2009; 13 : 577-589.

BRIDOWER BK. Clustering feature vectors with mixed numerical and categorical attributes. *INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS*. 2009; 4(4) : 285-296.

BRIDOWER BK. Extending the rand, adjusted rand and jaccard indices to fuzzy partitions. *Journal of Intelligent Information Systems*. 2009; 32 : 313-335.

BRIDOWER BK. Fuzzy Clustering of Feature Vectors with some Ordinal Valued Attributes Using Gradient Descent for Learning. *International Journal of Uncertainty, Fuzziness and Knowledge Based Systems*. 2009; 14(2) : 185-218.

BUSCH A, SCHEPPER C, BASSON AH. Development and testing of a prototype reflex measurement system employing artificial neural networks. *Computer Methods and Programs in Biomedicine*. 2009; 94 : 137-25.

COETZEE CJ, ELS DNI. Calibration of discrete element parameters and the modelling of soil discharge and bucket filling. *Computers and Electronics in Agriculture*. 2009; 69 : 199-212.

COETZEE CJ, ELS DNI. Calibration of granular material parameters for DEM modelling and numerical verification by blade-granular material interaction. *Journal of Terramechanics*. 2009; 46 : 15-36.

COETZEE CJ, ELS DNI. The numerical modelling of excavator bucket filling using DEM. *Journal of Terramechanics*. 2009; 46 : 217-227.

DOS SANTOS BERNARDES PM, VON BACKSTRÖM TW, KRÖGER DG. Analysis of some heat transfer coefficients applicable to solar chimney power plant collectors. *Solar Energy*. 2009; 83 : 244-274.

ELVIN N, ELVIN A, SCHEPPER C, ARNOCCZY S, DILLON EM, ERASMUS PJ. A Preliminary Study of Patellar Tendon Torques During Jumping. *Journal of Applied Biomechanics*. 2009; 25 : 380-389.

FLURI TP, PRETORIUS JP, VAN DYK C, VON BACKSTRÖM TW, KRÖGER DG, VAN ZIJL GPJG. Cost analysis of solar chimney power plants. *Solar Energy*. 2009; 83 : 246-254.

FLURI TP, PRETORIUS JP, VAN DYK C, VON BACKSTRÖM TW, KRÖGER DG, VAN ZIJL GPJG. Cost analysis of solar chimney power plants. *Solar Energy*. 2009; 83 : 246-254.

FLURI TP. The potential of concentrating solar power in South Africa. *Energy Policy*. 2009; 37 : 5075-5080.

FREUD GA, SCHEPPER C. Numerical modelling of a high-speed rigid rotor in a single-roller bearing using modified Euler equations of motion. *Mechanical Systems and Signal Processing*. 2009; 22 : 130-154.

GIORDANO I, KOEHL J, CHERIAC H, SCHEPPER C. Evaluation of CoFeSiB Microcores for Biomedical Stress Studies. *SENSORS REVIEW*. 2009; 7 : 1-3.

GEORNWOLD A, ETIMAK LPO, KOK S, WOOD DW, TOORJANAN S. An augmented Lagrangian approach to non-convex SAQ using diagonal quadratic approximations. *Structure and Multidisciplinary Optimization*. 2009; 28 : 413-421.

The screenshot shows the SUNScholar Research Repository website for Stellenbosch University. The header includes the university logo and navigation links for 'Home' and 'Community List'. The main content area features a search bar, a welcome message, and a list of communities. The footer contains copyright information and links for 'Home', 'About Us', 'Contact Us', and 'Helpdesk'.

**SUNScholar Research Repository – University of Stellenbosch**

Welcome to the full text open access digital research repository of the University of Stellenbosch. SUNScholar is a digital service that collects, preserves, and distributes digital material. Repositories are important tools for preserving an organization's legacy; they facilitate digital preservation and scholarly communication. Please use the secure Mozilla Firefox internet browser to view and manage items in this repository.

**Communities in SUNScholar**

Select a community to browse its collections.

- Faculty of AgriSciences
- Faculty of Arts and Social Sciences
- Faculty of Economic and Management Sciences
- Faculty of Education
- Faculty of Engineering
- Faculty of Health Sciences
- Faculty of Law
- Faculty of Military Sciences
- Faculty of Science
- Faculty of Theology
- University of Stellenbosch

**Search SUNScholar**

Advanced Search

**Browse**

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- Communities & Collections
- By Issue Date
- Authors
- Titles
- Subjects

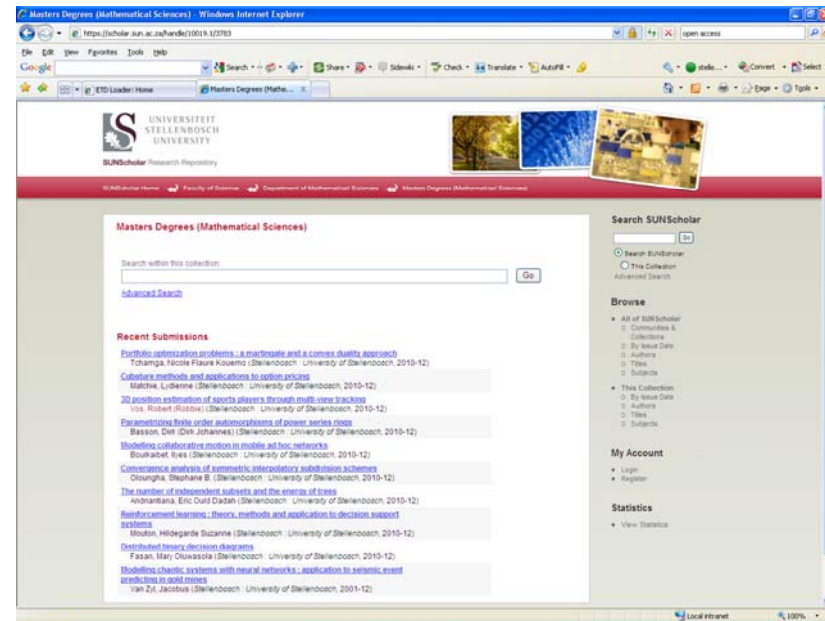
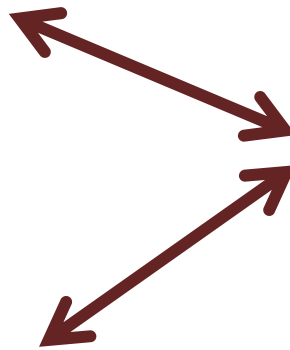
**My Account**

- Login
- Register

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[Language](#) / [User Help](#) / [Contact Us](#) / [Search Feedback](#)



# Seamless integration between Portal & SUNScholar





# Digitization of theses/dissertations

15 034 printed copies; 3 590 on microfiches



# SUNScholar & SUNSearch

The screenshot shows the top navigation bar of the library website. On the left is the logo for 'LIBRARY AND INFORMATION SERVICE'. The navigation menu includes 'ABOUT US', 'SEARCH & FIND', 'SERVICES', 'HOW DO I?', and 'BRANCHES'. On the right, there are links for 'Library Home', 'Guest', 'e-Shelf', 'My Account', and 'Sign in'. Below the navigation is the 'SUNSearch beta' header with links for 'Find Databases', 'Research Support', 'Ask a Librarian', and 'Help'. The search area features a text input field, a dropdown menu set to 'AgriSciences and Forestry', a 'Search' button, and an 'Advanced Search' link. Below the search field are two dropdown menus: 'that contain my query words' and 'anywhere in the record'.



The logo for SUNScholar Research Repository, featuring a stylized 'S' with a leaf. The text reads 'UNIVERSITEIT STELLENBOSCH UNIVERSITY' and 'SUNScholar Research Repository'.



The navigation bar for SUNScholar Research Repository. It includes links for 'SUNScholar Home' and 'Community List'. The text 'SUNScholar Research Repository – University of Stellenbosch' is displayed on the left, and 'Search SUNScholar' is on the right.



# Web 2.0 development

 mirage

 @MIRE

 DSPACE

- ✓ Clean new look and feel
- ✓ Increased browser compatibility
- ✓ Easier to customize
- ✓ Enhanced performance

Plug-in's

Audiovisual Streaming  
Image Zoom  
Document Streaming

0:10 / 3:43

360p

 mirage

Login

[DSpace Home](#) → [Community List](#)

## DSpace Demo Repository

Welcome to the DSpace.org demonstration/sample repository (Masakin / XMLUI interface)!

This repository is currently running on **DSpace version 1.7 (RC1 trunk)**, with the following extra features enabled:

- Embargo option in Submission process
- Authority Control (on Authors and Publishers) in Submission process
- Community/Collection/Item Statistics are publicly visible
- OpenSearch
- Google Scholar metadata

## Communities in DSpace

Select a community to browse its collections.

- [aaaaa](#)
- [aaaaaaaaa](#)
- [Agricultural Information Centre, BARC](#)
- [APrueba](#)
- [AWI Collection: external organizations](#)
- [AWI Community: Climate Sciences](#)
- [Bangladesh Agriculture University](#)
- [Bangladesh Rice Research Institute](#)
- [BAU CENTRAL LIBRARY](#)
- [Bodhicharya](#)
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- [BRACU Test](#)
- [Chudrival Sheikh Mujibur Bahaman Agricultural University](#)
- [Cochin University of Science and Technology](#)

feedback

### Search DSpace

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### My Account

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### Statistics

[View Statistics](#)

### Discover

#### Author

[doe\\_john \(100\)](#)  
[doe\\_jane \(52\)](#)  
[smith\\_john \(51\)](#)  
[smith\\_jane \(50\)](#)  
[ackerman\\_samuel \(25\)](#)  
[swamy\\_saron \(25\)](#)  
[beecher\\_wm \(25\)](#)  
[brown\\_charles\\_m. \(25\)](#)  
[brown\\_charlie \(25\)](#)  
[calvin\\_john \(25\)](#)

# Digital Preservation Strategy

- ▶ OAIS Compliance
- ▶ Administrative Responsibility
- ▶ Organisational Viability
- ▶ Financial Sustainability
- ▶ Technological & Procedural Suitability
- ▶ System Security
- ▶ Procedural Accountability

[http://wiki.lib.sun.ac.za/index.php/SUNScholar/Digital\\_Preservation](http://wiki.lib.sun.ac.za/index.php/SUNScholar/Digital_Preservation)

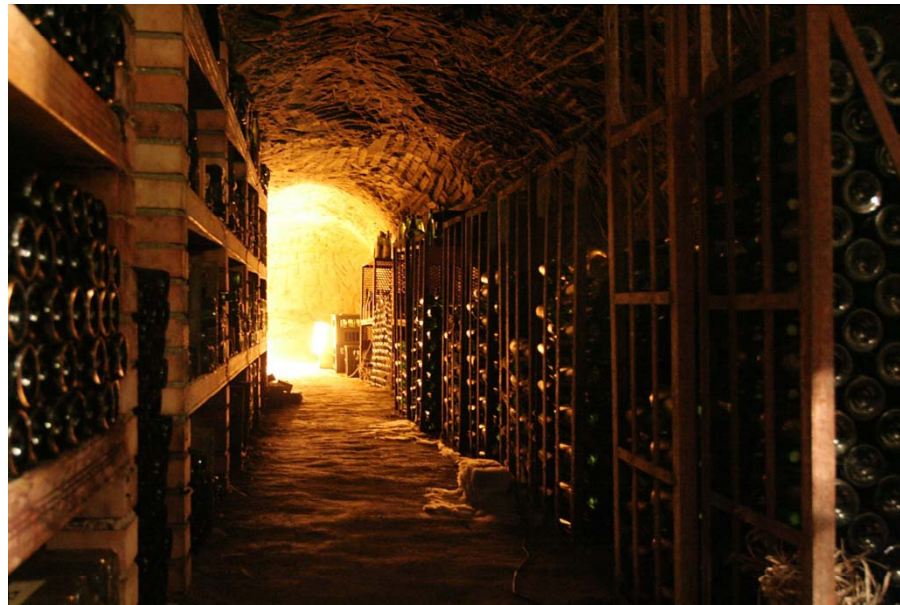
**“The fewer people know about your research, the less it is worth. We’d like to think that the best ideas win, but the truth is that the best communicated ideas win. An author put it very clearly to me. He said: ‘My greatest fear is not piracy; the stealing of my content. My greatest risk is obscurity.’ ”**

– Mark Shuttleworth, 20 October 2010



**“The job of research is only half-done if the results of that research cannot reach the widest audience.”**

*- Wellcome Trust -*





Thank you!

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Skype: smith.ina

Facebook: usscholar

Twitter: #usscholar

# Bibliography

- ▶ Botman, HR, 2010, Public launch of Stellenbosch University's Hope Project, <http://www.sun.ac.za/university/management/rector/speeches.html>
- ▶ Lynch, CA, 2003, Institutional Repositories: Essential Infrastructure for Scholarship in the Digital Age, ARL, no. 226 (February 2003): 1–7
- ▶ Stellenbosch University, 2000, A strategic framework for the turn of the century and beyond, <http://www.sun.ac.za/university/StratPlan/index.htm>