



Research @ Mechanical & Mechatronic Engineering

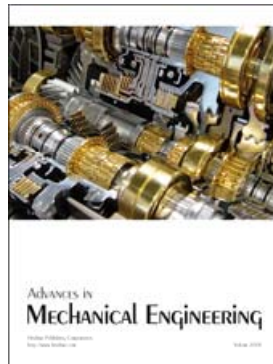
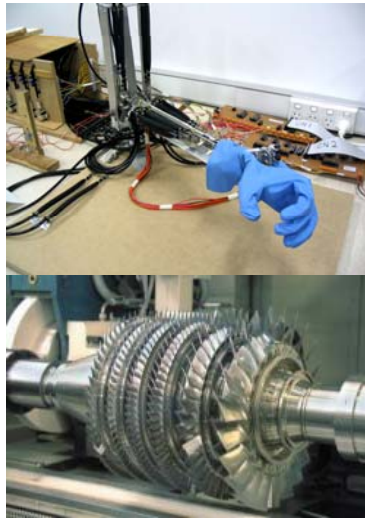
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Presented to the Dept. of Mechanical and Mechatronic Engineering
19 July 2010

Ina Smith, Hilton Gibson, Paulette Talliard, Corinna Truter

Research Life Cycle

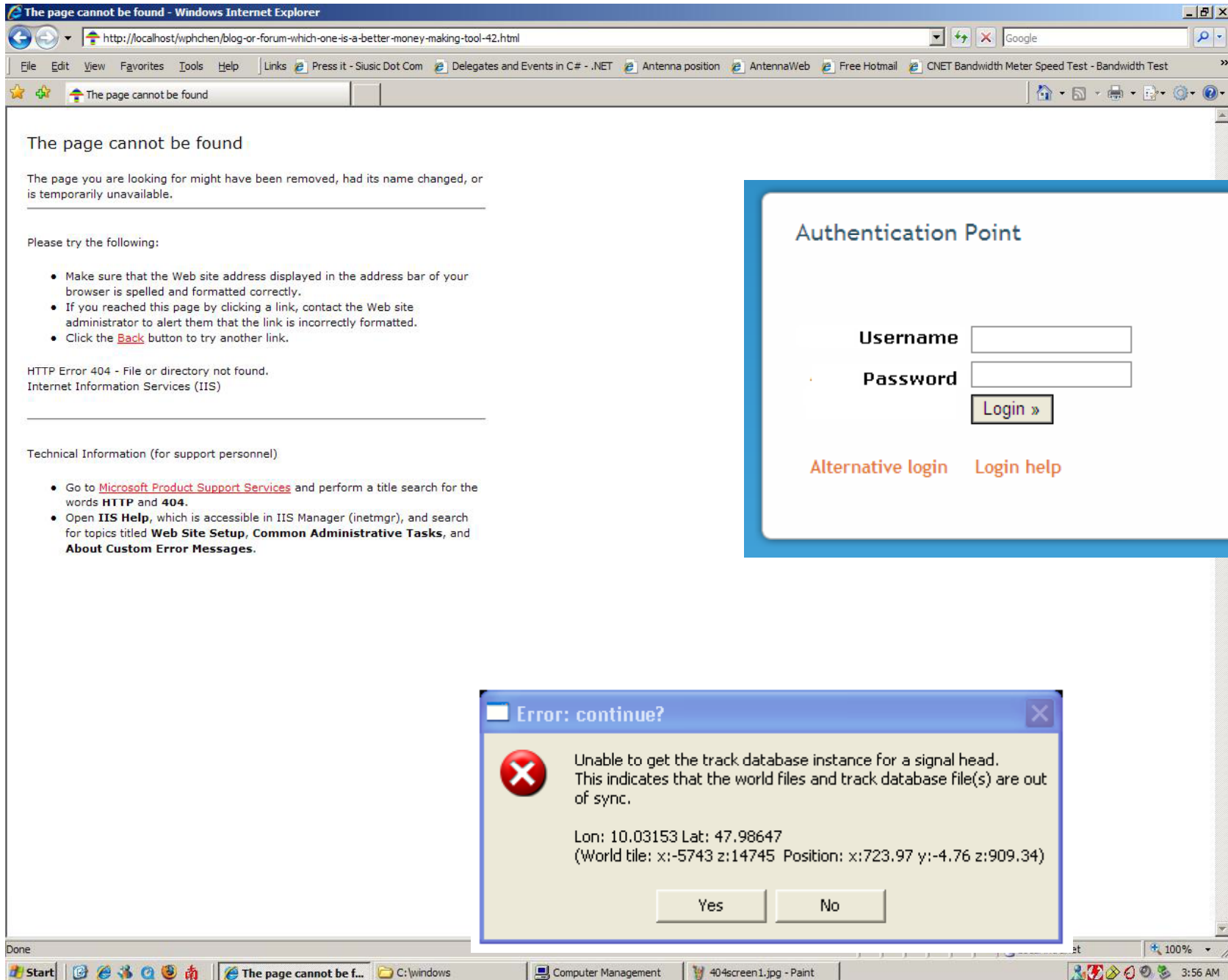
3. Leads to more research
Improve products etc.



2. Publish research – journals, books, conferences etc.



1. Conduct research



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The page you are looking for might have been removed, had its name changed, or is temporarily unavailable.

Please try the following:

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HTTP Error 404 - File or directory not found.
Internet Information Services (IIS)

Technical Information (for support personnel)

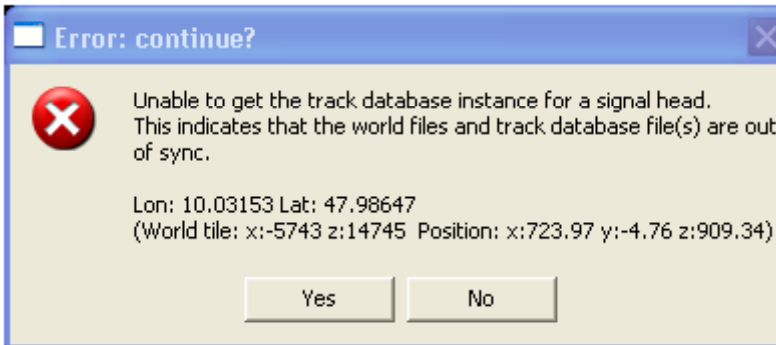
- Go to [Microsoft Product Support Services](#) and perform a title search for the words **HTTP** and **404**.
- Open **IIS Help**, which is accessible in IIS Manager (inetmgr), and search for topics titled **Web Site Setup**, **Common Administrative Tasks**, and **About Custom Error Messages**.

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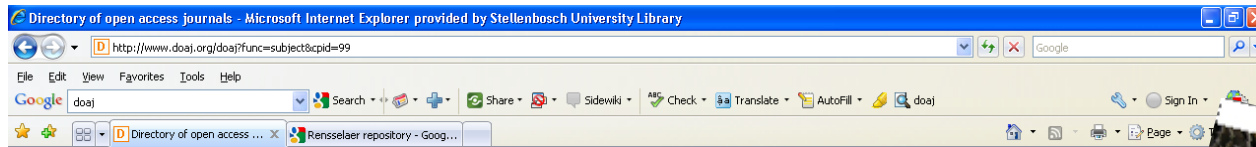
Acknowledgement – image: <http://openreflections.files.wordpress.com/2010/01/open20access-seal.gif>



Two approaches to Open Access

- **Golden route** - publish in Open Access journals
- **Green route** – publish in an Institutional Repository





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24 journals belonging to subject: **Mechanical Engineering**

[Advances in Mechanical Engineering](#) [DOAJ Content](#)

ISSN: 16878132

EISSN: 16878140

Subject: [Mechanical Engineering](#)

Publisher: Hindawi Publishing Corporation

Country: United States

Language: English

Keywords: mechanical engineering

Start year: 2009

License:

[Advances in Theoretical and Applied Mechanics](#) [DOAJ Content](#)

ISSN: 13136550

Subject: [Mechanical Engineering](#)

Publisher: Hikari Ltd

Country: Bulgaria

Language: English

Keywords: mechanical models, mathematical models

Start year: 2008

[Advances in Tribology](#) [DOAJ Content](#)

ISSN: 16875915

EISSN: 16875923

Subject: [Mechanical Engineering](#)

Publisher: Hindawi Publishing Corporation

Country: United States

Language: English

Keywords: friction, lubrication, wear

DoE Accredited Journals

Accredited Journals

English Afrikaans

The following lists are regarded as accredited journals by the Department of Education (DoE) Journals appearing on the IBSS

- International Bibliography of the Social Sciences (IBSS)

Journals appearing on the 3 indicies of the ISI:

- Science Citation Index
- Social Sciences Citation Index
- Arts and Humanities Citation Index

List of approved South African journals

Journals which do not appear in the above mentioned international indices but whose seat of publication is in South Africa and which meet specific criteria (also available below), can be included in this list.

- Minimum criteria to be eligible for inclusion in the list of approved journals (.doc)
- List of approved South African journals as maintained by the DoE (.pdf)

What is a research repository? (“green” route)

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

(Clifford A. Lynch, "[Institutional Repositories: Essential Infrastructure for Scholarship in the Digital Age](#)" ARL, no. 226 (February 2003): 1-7)

National & International Landscape

Africa (35)
South Africa (23)

The image shows a collage of web browser screenshots. On the left, the 'Deep Blue at the University of Michigan' website is visible, featuring a search bar and navigation links. In the center, the 'UQ eSpace' website is shown with a search bar and a list of links. On the right, a list of African digital repositories is displayed, including:

- ASSAT (Academy of Science of South Africa) - Scientific Electronic Library Online
- Cape Peninsula University of Technology
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- Durban University of Technology (DUT) - DUT IR
- North-West University - Boloka Research Repository North-West University
- Rhodes University - Rhodes eResearch Repository (ReRR)
- Stellenbosch University - Stellenbosch University SUNeTD repository, Stellenbosch University SUNScholar Repository
- University of Cape Town - UCT Computer Science Research Document Archive (UCT CS Archive), UCT Lawspace
- University of Johannesburg (UJ) - UJ Digispace
- University of KwaZulu-Natal (UKZN) - Digital Innovation South Africa (DISA), ResearchSpace@UKZN
- University of Pretoria (UP) - University of Pretoria Electronic Theses and Dissertations (UPeTD), UPSpace (UPSpace at the University of Pretoria)
- University of South Africa (Unisa) - Unisa eTN

A large red diagonal banner across the bottom left of the collage reads: "1 650+ internationally".

HKUST Institutional Repository: Mechanical Engineering - Microsoft Internet Explorer provided by Stellenbosch University Librarian

http://repository.ust.hk/dspace/handle/1783.1/325

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HKUST Institutional Repository: Mechanical Engineering

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Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

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RSS Feeds

Done

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What is SUNScholar?

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



- **Strategic objective** of library: Support, develop and contribute to high-level scholarly publication output
- **Full text central digital research repository** of the University of Stellenbosch
- Provide **open access** where possible
- **Digitally preserve** research output

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www.dspace.org - Microsoft Internet Explorer provided by Stellenbosch University Library

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- NewSpace - Volume 3, Issue 20
6 May 2010

Upcoming Events

- SPARC Meeting
November 09, 2010(8:00 AM) - November 10, 2010 (4:00 PM)
- 6th International Digital Curation Conference
December 06, 2010(8:00 AM) - December 08, 2010 (4:00 PM)

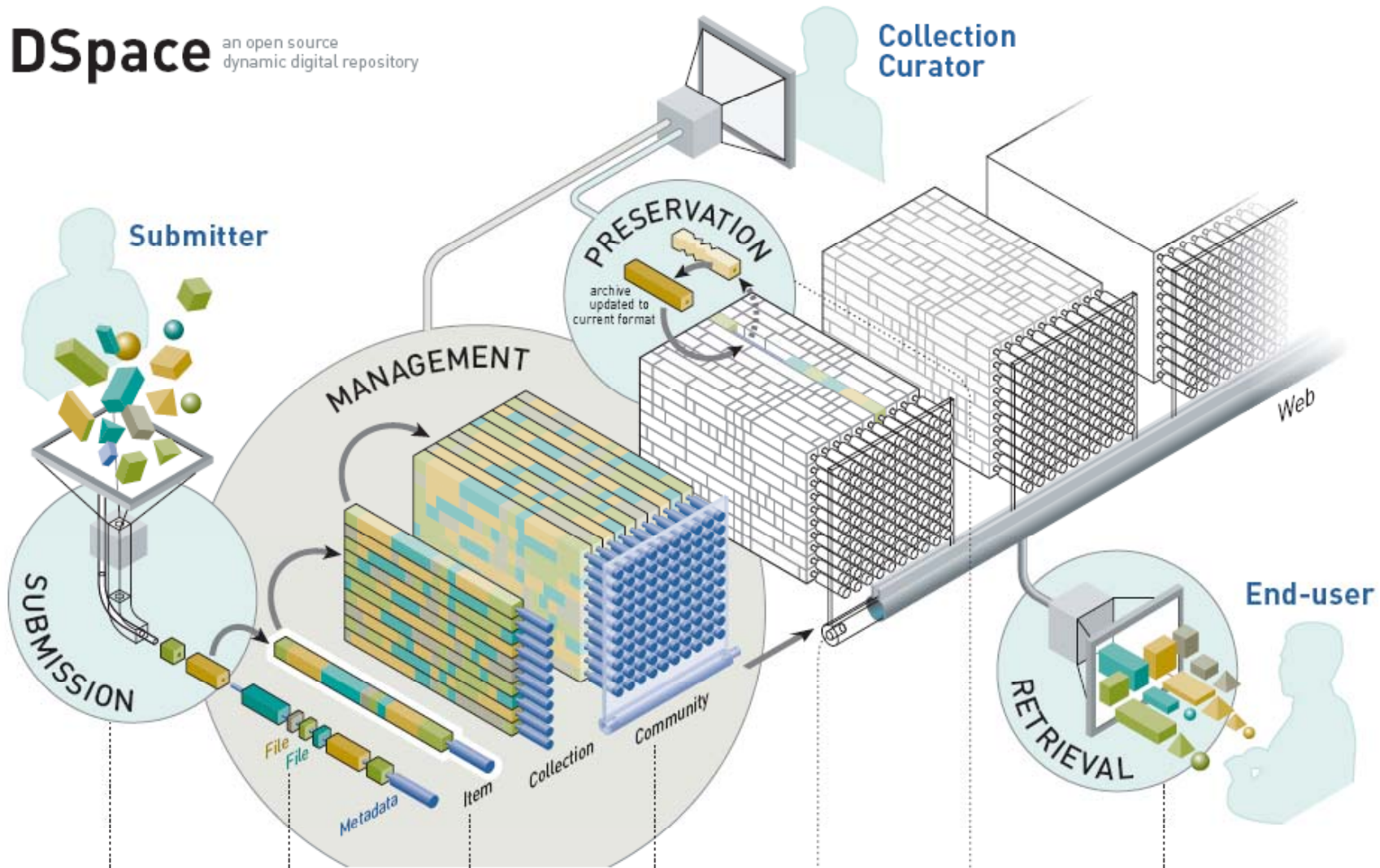
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DSpace

an open source dynamic digital repository



1 Web-based interface makes it easy for a submitter to create an archival item by depositing files. DSpace was designed to handle any format from simple text documents to datasets and digital video.

2 Data files, also called bitstreams, are organized together into related sets. Each bitstream has a technical format and other technical information. This technical information is kept with the bitstreams to

3 An item is an "archival atom" consisting of grouped, related content and associated descriptions (**metadata**). An item's exposed metadata is indexed for browsing and searching. Items are organized into **collections** of logically-related material.

4 A community is the highest level of the DSpace content hierarchy. They correspond to parts of the organization such as departments, labs, research centers or schools.

5 DSpace's modular architecture allows for creation of large, multi-disciplinary repositories that ultimately can be expanded across institutional boundaries.

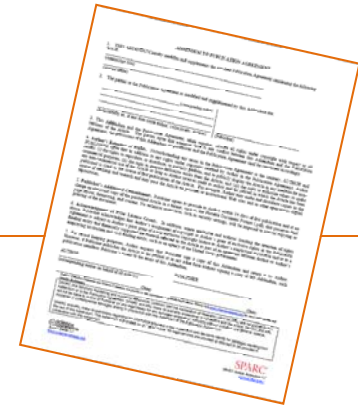
6 DSpace is committed to going beyond reliable file preservation to offer **functional preservation** where files are kept accessible as technology formats, media, and paradigms evolve over time for as many types of files as possible.

7 The end-user interface supports browsing and searching the archives. Once an item is located, Web-native formatted files can be displayed in a Web browser while other formats can be downloaded and opened with a suitable application program.

Research Output

- 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!

Research Articles



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Solar Energy

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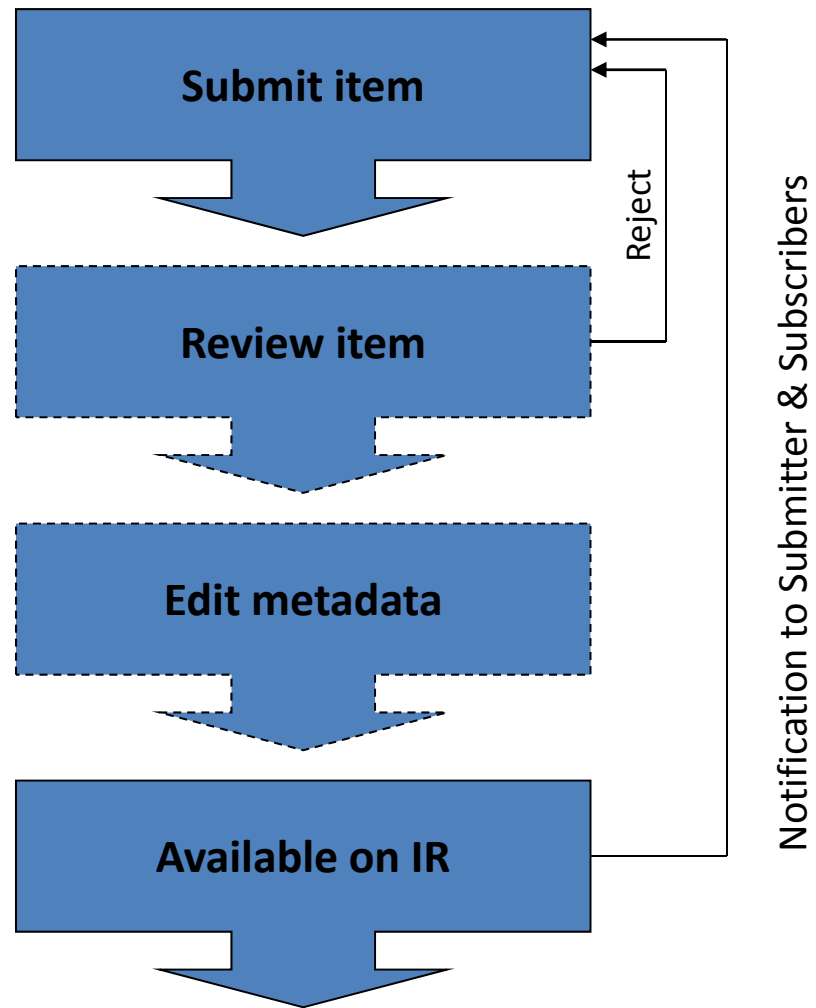
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Blue	Can archive post-print (ie final draft post-refereeing) or publisher's version/PDF

Theses & Dissertations

- Submission is mandatory
- See guidelines on web
- Nominations for December graduation ceremony – starts **1 September 2010**
 - Supervisor nominates
 - Student receives an e-mail
 - Student submits to IR

Workflow



Submission Process

The image displays a sequence of five screenshots from the SUNScholar submission process, arranged in a roughly diagonal path from top-left to bottom-right. Each screenshot is overlaid with a large blue circle containing a white number from 1 to 5, indicating the step in the process.

- 1:** The first screenshot shows the SUNScholar homepage with the 'Item submission' link highlighted in the top navigation bar.
- 2:** The second screenshot shows the 'Item submission' page with the 'Collection' dropdown menu open, displaying a list of available collections.
- 3:** The third screenshot shows the 'Item submission' page with the 'Author' field filled in and the 'US Number' field set to 'ADD'.
- 4:** The fourth screenshot shows the 'Item submission' page with the 'Subject' field set to 'Keywords' and the 'Abstract' field visible.
- 5:** The fifth screenshot shows the 'Item submission' page with the 'File Description' field filled in and the 'Upload File' button highlighted.

The screenshots show the SUNScholar interface, including the navigation bar, the 'Item submission' form, and the 'Distribution License' section. The interface is in English and features a search bar and a sidebar with navigation links.

Prof Anton Basson

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- Academic Qualifications
- Professional Experience
- Fields of Research
- Fields of Interest
- Chapters in Books
- Journal Papers
- Conference Proceedings
- Research Publications



Chairman and Professor: Design and Mechatronics Division

Prof Anton Basson is currently the Chairman of the Department, as well as head of the Design and Mechatronics Division. In 1987 he was registered as a Professional Engineer (no. 870466) with the Engineering Council of South Africa. On 30 October 1995 he was evaluated as a Y-category researcher by FRD, and since June 2000 the NRF evaluated him as a C(3)-category researcher.

He did his PhD on numerical simulation of steady three-dimensional flows in axial turbomachinery bladerows. His current fields of speciality are in mechanical design, design for manufacturing and design methodology. He is currently doing research in the areas of distributed design, cost estimation during design, plastic processing machine development and aids for the design of mechatronic machines.

Academic Qualifications

BEng (Mechanical), Stellenbosch, 1981
MEng (Mechanical), Stellenbosch, 1987
PhD, Penn State, 1992

Professional Experience

- 1 Jan 1996 to present: **Stellenbosch University**
Professor in Mechanical Engineering (Mechanical Design)
- 1 Apr 1993: **Stellenbosch University, Dept Mechanical Engineering**
Associate Professor
- 1 Oct 1992 - 1993: **TF Design cc**
Co-founder and Partner
- 1 Jan 1992: **BMI, University of Stellenbosch**
Group Manager
- 1 May 1987 - 1992: **BMI, University of Stellenbosch**
Engineer
- 1 Jan 1984 - 1987: **NIAST, CSIR, Pretoria**
Engineer
- Jul 1982 to Dec 1983: **Military Academy, Saldanha**
Assistant Lecturer in Aeronautics

Research Articles
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Chapters in Books
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SUNScholar

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Anton Basson

Chapters in Books

- Schueler, A. and Basson, A.H. "Case Study on Low Cost Distributed Design Support for Small Teams", in "Methods and Tools for Co-operative and Integrated Design" edited by Tichkiewitch S. and Brissaud D., Kluwer Academic, 2004, pp. 425-436.

Journal Papers

- Basson, A.H., Von Backström, T.W. and Du Plessis, J.P. "Numerical Prediction of Two-Dimensional Axial Turbomachinery Cascade Flows", *Aeronautical Meridiana*, Vol. 10, 1992, pp 115-127.
- Basson, A.H., Kunz, R.F. and Lakshminarayana, B. "Grid Generation for Three-Dimensional Turbomachinery Geometries Including Tip Clearance", *AIAA Journal of Propulsion and Power*, Vol. 9, No. 1, 1993.
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- Basson, A.H. and Lakshminarayana, B. "An Artificial Dissipation Formulation for a Semi-Implicit, Pressure Based Solution Scheme for Viscous and Inviscid Flows", *Int. Jnl. of Computational Fluid Dynamics*, Vol. 2, 1994, pp. 253-282.
- Basson, A. and Lakshminarayana, B. "Numerical Simulation of Tip Clearance Effects in Turbomachinery", *ASME Journal of Turbomachinery*, Vol. 117, No. 3, Jul. 1995, pp. 348-359.
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- Goussard, C.L. and Basson, A.H., "Semi-automatic extraction of primitive geometric entities from unstructured point clouds", *Journal of Engineering Manufacture, Proc. IMechE Part B*, Vol. 217, No B10, 2003, pp.1491-1495.
- Schreve, K. and Basson, A.H. "Small Volume Fabrication Cost Estimation Models for Embodiment Design", *R&D Journal*, Vol. 20, No. 1, 2004, pp. 9-15.
- Schreve, K. and Basson, A.H. "Edge detection in reverse engineering using a scanning approach. Part 1: scanning algorithm", *International Journal of Advanced Manufacturing Technology*, published online at <http://www.springerlink.com/index/10.1007/s00170-004-2071-1>, Dec 2004.
- Schreve, K. and Basson, A.H. "Edge detection in reverse engineering using a scanning approach. Part 2: testing, including design of experiments", accepted for publication in *International Journal of Advanced Manufacturing Technology*, published online at <http://www.springerlink.com/index/10.1007/s00170-004-2082-y>, Jan 2005.
- Scheffer, C. and Basson, A.H. "A simulation model to improve pneumatic intensifier performance and reliability", *Journal of the SA Inst of Mining and Metallurgy*, accepted for publication, March 2005.
- Coetzee, C.J., Basson, A.H. and Vermeer, P.A. "Discrete and Continuum Modelling of Silo Discharge", *R&D Journal, SA Inst. Mech. Eng.*, Vol. 22, No. 2, 2006, pp26-38.
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BLAZNE OC, PARK S-J, GERMAN RM. Linearization of Master Sintering Curve. *Journal of the American Ceramic Society* 2009; 92(7) : 1400-1409.

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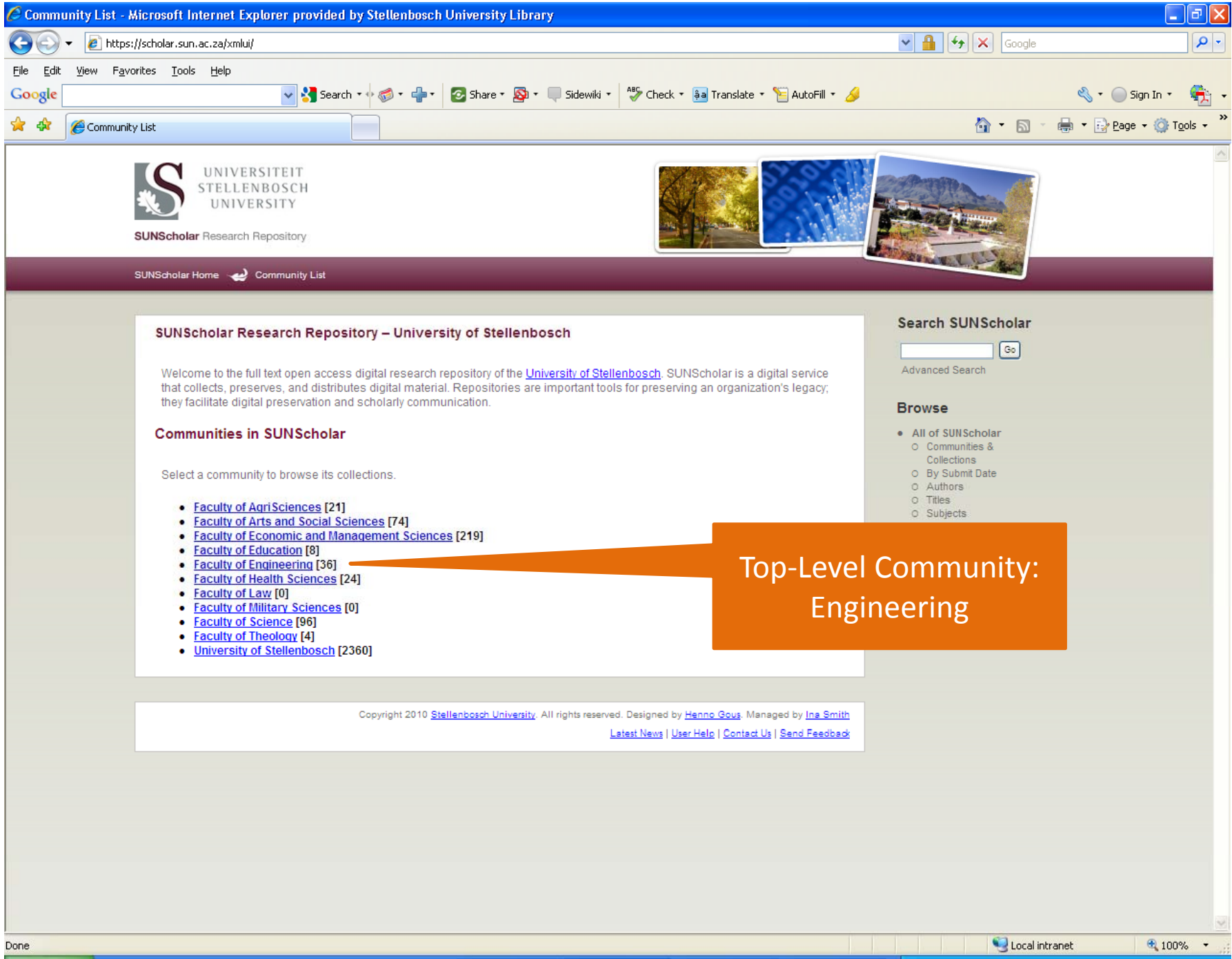
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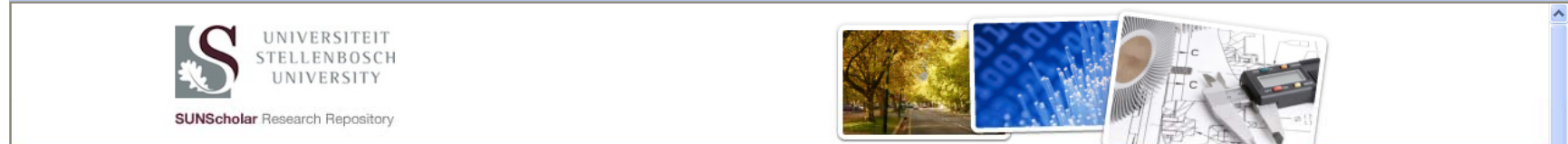
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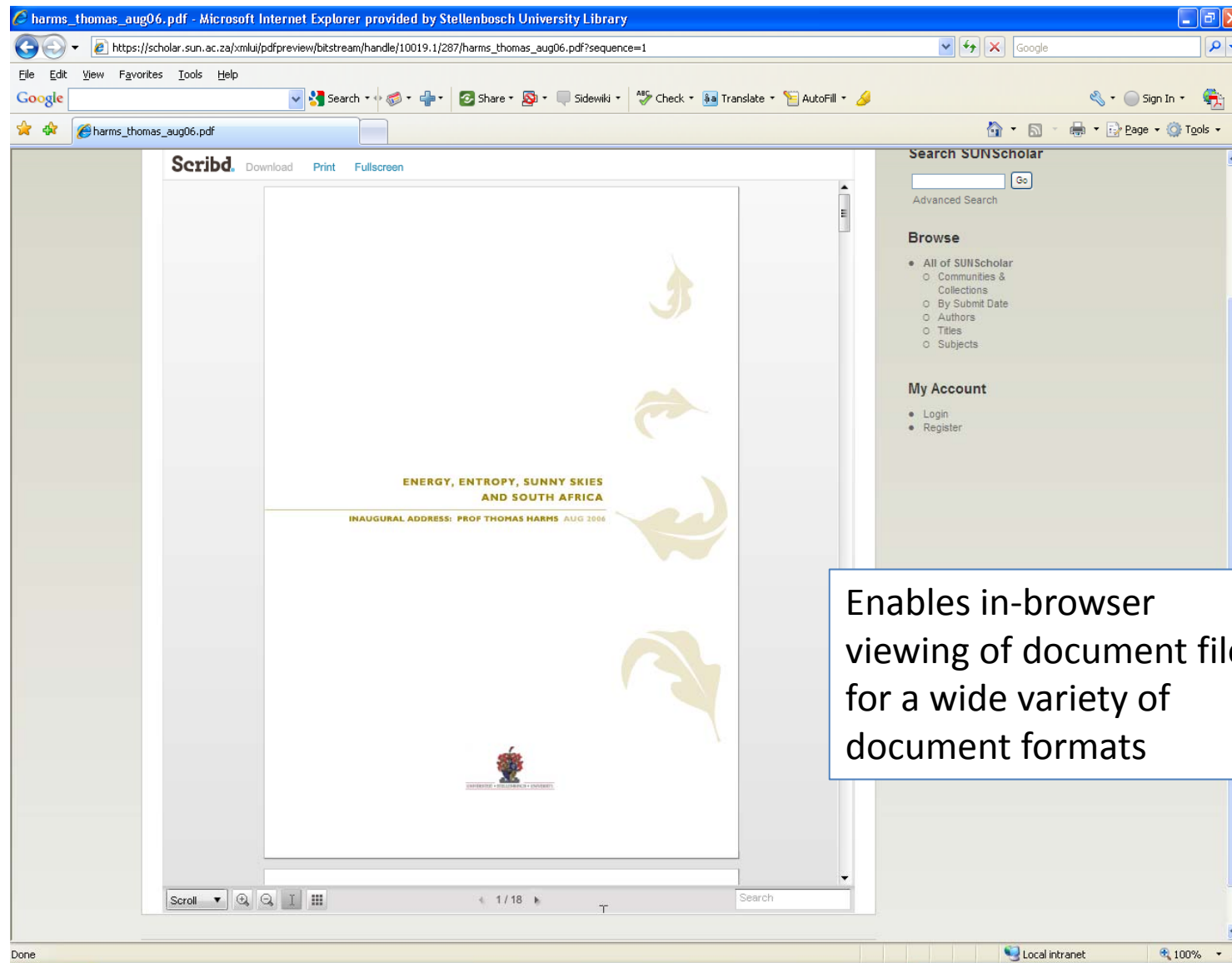
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Abstract: Granular flow occurs in a broad spectrum of industrial applications that range from separation and mixing in the pharmaceutical industry, to grinding and crushing, blasting, stockpile construction, flow in and from hoppers, silos, bins, and conveyer belts, agriculture, mining and earthmoving. Two totally different approaches of modelling granular flow are the Discrete Element Method (DEM) and continuum methods such as Finite Element Methods (FEM). Continuum methods can be divided into nonpolar or classic continuum methods and polar continuum methods. Large displacements are usually present during granular flow which, without remeshing, cannot be solved with standard finite element methods due to severe mesh distortion. The Particle-in-Cell (PIC) method, which is a so-called meshless method, eliminates this problem since all the state variables are traced by material points moving through a fixed mesh. The main goal of this research was to model the flow of noncohesive granular material in front of flat bulldozer blades and into excavator buckets using a continuum method. A PIC code was developed to model these processes under plane strain conditions. A contact model was used to model Coulomb friction between the material and the bucket/blade. Analytical solutions, published numerical and experimental results were used to validate the contact model and to demonstrate the code's ability to model large displacements and deformations. The ability of both DEM and PIC to predict the forces acting on the blade and bucket and the material flow patterns were demonstrated. Shear bands that develop during the flow of material were investigated. As part of the PIC analyses, a comparison between classic continuum and polar continuum (Cosserat) results were made. This includes mesh size and orientation dependency, flow patterns and the forces acting on the blade and the bucket. It is concluded that the interaction of buckets and blades with granular materials can successfully be modelled with PIC. In the cases conducted here, the nonpolar continuum was more accurate than the polar continuum, but the polar continuum results were less dependent on the mesh size. The next step would be to apply this technology to solve industrial problems.

Description: Thesis (PhD (Mechanical and Mechatronic Engineering))--University of Stellenbosch, 2004.

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by

Corné J Coetzee

Dissertation approved for the degree of Doctor of Philosophy in Mechanical Engineering at Stellenbosch University

Department of Mechanical Engineering,
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Private Bag XI, Matieland 7602, South Africa.

Promoters:

Prof A.H. Basson Prof P.A. Vermeer
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MXit worth its moola

It's more than just an application on your cellphone. It is more than just something that distracts teens from their homework. It is a brand experience. It is a lifestyle. *Delia de Villiers* takes a look at the MXit phenomenon.

Moola. Tradepost. Joe Banker. Slut list.

These are all concepts associated with MXit. And if you know what they are you are probably young and innovative and exactly the individual that MXit wants to target to share in this new brand experience. MXit says they have achieved "cult status in the youth market".

In its simplest form MXit is an instant messaging service. It runs on GPRS/3G-enabled cellphones with Java support. It can also be used on computers with Adobe Flash Player. It is a service that allows its users to send and receive multimedia messages to and from other MXit-enabled cellphones and computers. MXit is known as a form of "community software". This is simply software that only has a function when there is more than one person using it. One of the outstanding features of MXit is that while it is about the technology it is also about the community it creates.

MXit is not a new concept. Its success can be attributed to its cornering of a certain part of the market. MXit is similar to any other form of instant messaging. The difference is that it uses a cellphone as its vehicle. Cellphone access and use in South Africa is much more prevalent than internet access and usage, according to Frieda le Roux, editor of research and product development at Die Burger. MXit is cheap and fast, unlike SMSes that take longer and are comparatively more expensive.

Uno de Waal, an independent social media and applications consultant, said in an email interview with SMF: "The community is what matters most. If you rally enough people around a niche then you'll have a sustainable model that will keep itself running, policing itself and going forward."

MXit is aimed at 12 to 15-year-olds, according to their website, www.mxit.co.za. De Waal says that this does not mean it excludes older people. "If a 50-year-old and his or her peer group are on MXit, they would have the same experience as someone who is 10, that is, they'd be able to chat to their friends," MXit believes, as stated on their website, that its growth and development has not been restrained by demographics. MXit is built around the brand, the website states.

Described by its creators as "simple, energetic, iconic and a little rebellious", they believe the brand is something that anybody can identify with and aspire to. MXit prides itself on being in touch with its users with a special focus on "community creation", according to the website.

The brand facilitates the building of the community. De Waal says media products are increasingly presented as a brand experience. MXit states on their website that they want to create a brand experience that everyone can identify with.

The MXit creators believe the MXit brand demonstrates its connectedness to its users with a strong emphasis on community creation, according to their website. "It eliminates barriers enabling communities to develop, grow and interact unhindered by demographics."

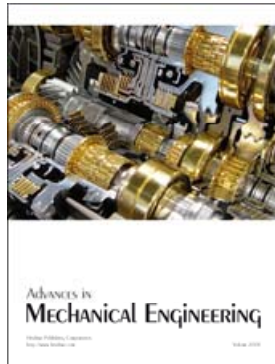
De Waal believes that MXit has been successful because it facilitates communication between people in a cheap, interesting and novel way. The MXit website states: "MXit crossed the boundaries of affordable communication and connected people across the globe."

MXit has a registered userbase of 9 million in South Africa, according to the website www.webaddict.co.za. It transmits 230 million messages every day. The service is distributed internationally to more than 120 countries with the largest portion of users in South Africa and Indonesia. Herman Heunis, the founder and CEO of MXit, says they hope to have 50 million international customers by the end of the year.

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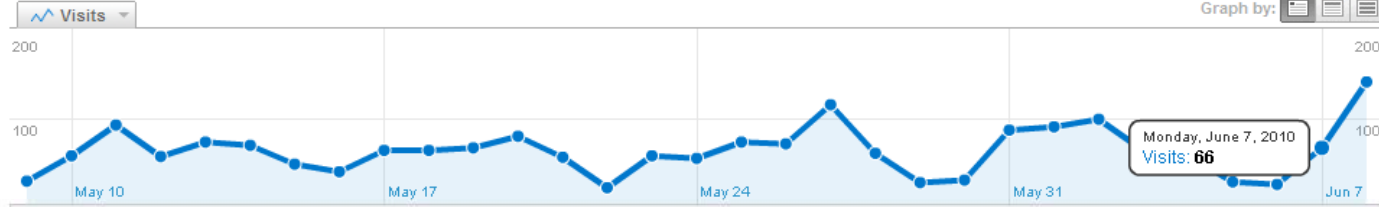
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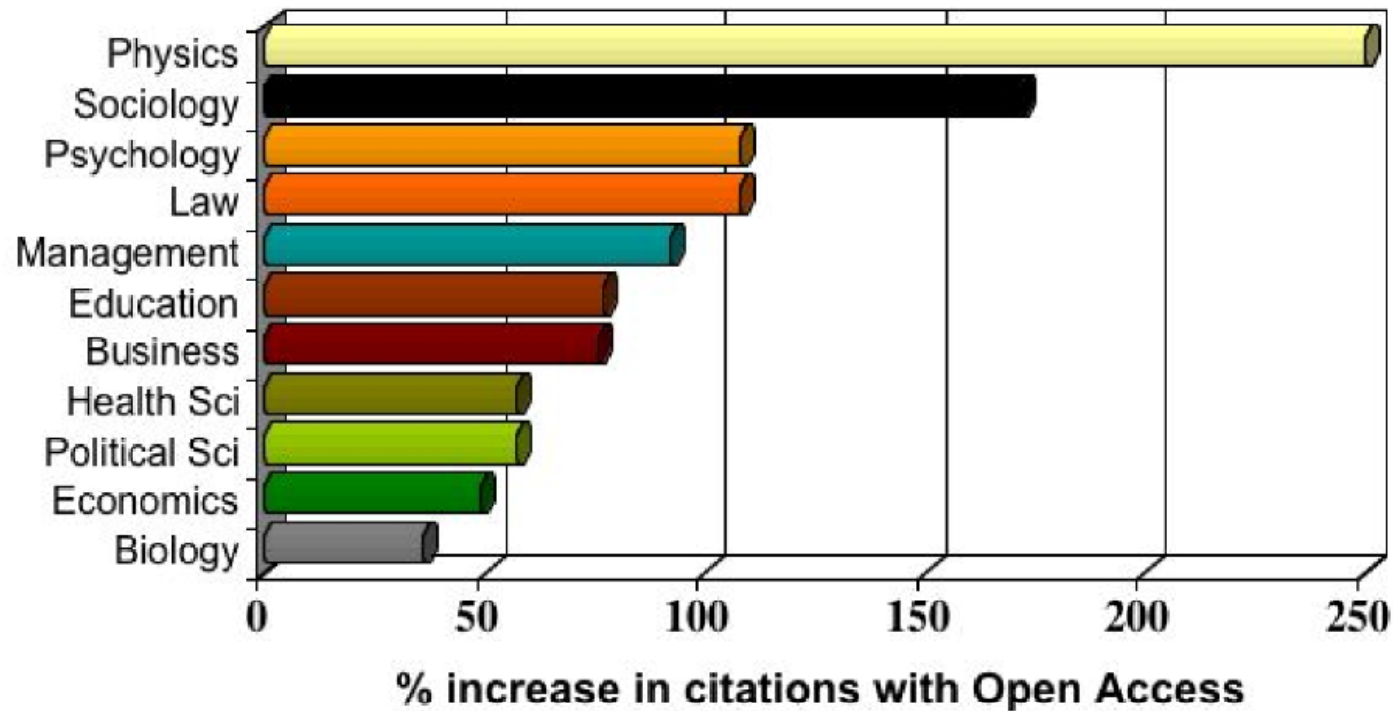
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4.	India	26	2.81	00:02:12	92.31%	61.54%
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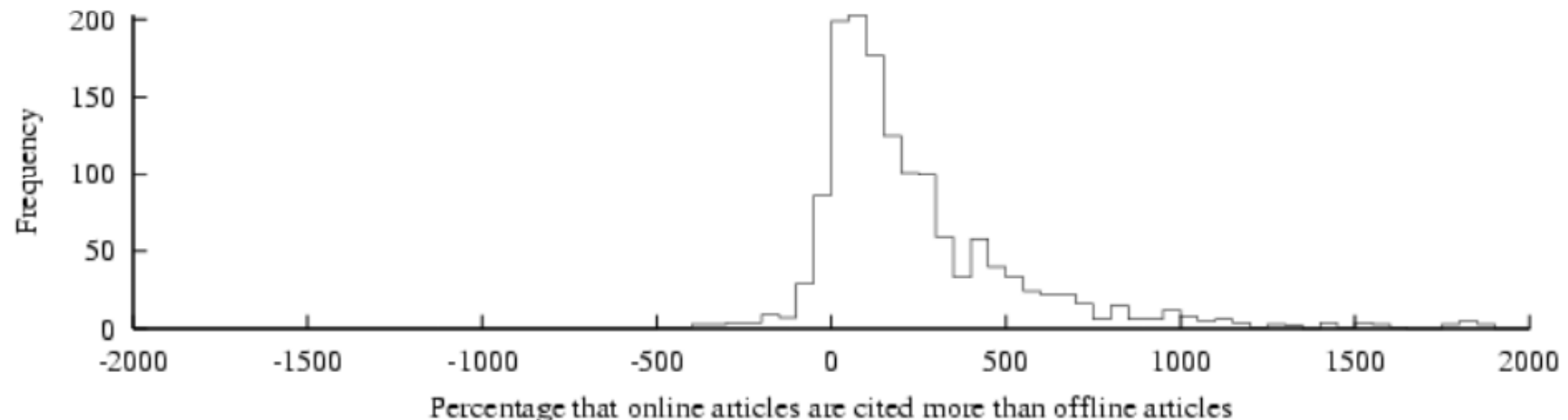
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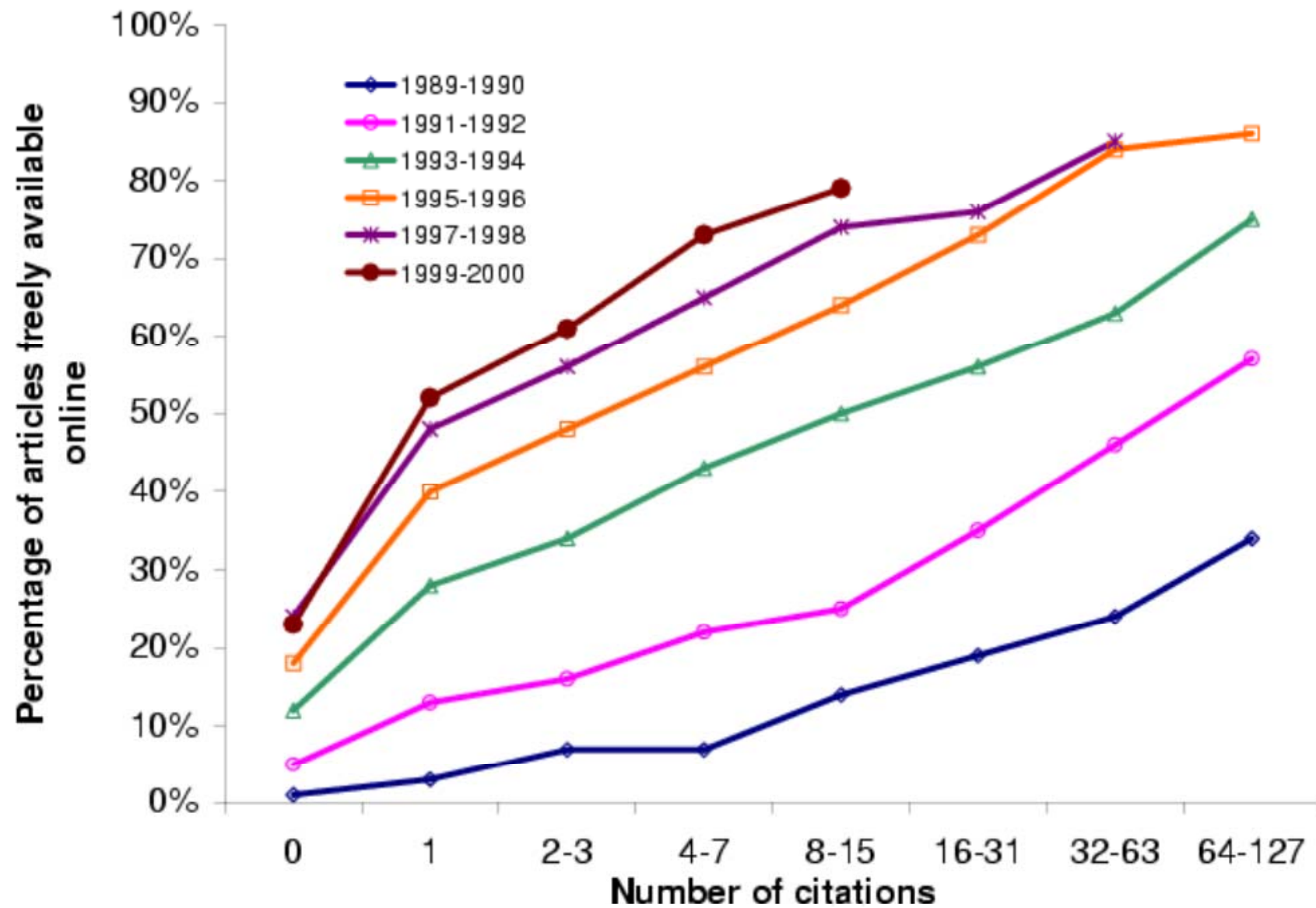
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created this Ning
Network.

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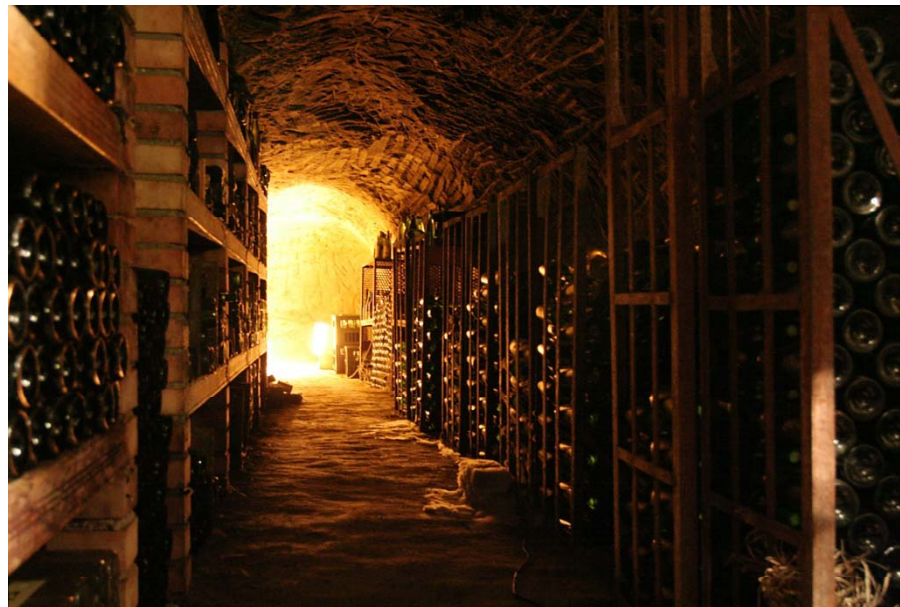
Groups



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

- Wellcome Trust -



SUNScholar: <https://scholar.sun.ac.za>

Contact Us: scholar@sun.ac.za

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

Acknowledgement images

- http://www.vcu.edu/cte/programs/small_grants/2005/robot.jpg
- http://www.davisvibration.com/images/mechanical_engineering_placeholder-2a.jpg
- <http://www.ghsteched.com/MechanicalEngineering.jpg>
- http://mech-eng.curtin.edu.au/staff/lindsay/teaching_interests/pneumatichand/pneumatic_hand.jpg