DAEDALUS: Developing an Agenda for Institutional ePrints Archives

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DAEDALUS, University of Glasgow

LIR HEAnet Annual Seminar
Trinity College Dublin, 26th March 2004
A revolution must be wrought in the ways in which we make, store, and consult the record of accomplishment.... It is not just a problem for the libraries, although that is important. Rather, the problem is how creative men think, and what can be done to help them think. It is a problem of how the great mass of material shall be handled so that the individual can draw from it what he needs-instantly, correctly, and with **utter freedom**. Compact storage of desired material and swift selective access to it are the two basic elements of the problem.

Vannevar Bush,
*Science Is Not Enough*, 1967
What’s in a name? That which we call a rose
By any other name would smell as sweet.

_Romeo and Juliet. Act ii. Sc. 2._
Roses and Repositories

- Institutional Archives
- Institutional Eprints Archives
- Institutional Repositories
- IBERs
  - Institutionally Based Eprints Repositories (SHERPA)
- Institutional Repository Services
Defining ePrints

• Electronic versions of research articles
  – pre-prints (pre-referred papers)
  – post-prints (post-refereed papers)

• May also include:
  – Conference papers
  – Book chapters

• Critical element is quality control
Convergence of Drivers

• Global journal problem
  – Rising costs of journal prices
• Open Archives Initiative
  – OAI-PMH
• Open Access movement
  – Budapest Open Access Initiative
  – Berlin Declaration
• Availability of repository software
  – DSpace
  – EPrints et al
Institutional Repositories

Institutional repositories are digital collections that capture and preserve the intellectual output of university communities. These could include:

**EPrints**
- Published papers
- Pre-prints
- Conference papers

**Other content**
- Theses
- Admin Documents
- Images

IRs are still in their infancy but maturing rapidly
Why institutional repositories?

• The “Third Wave” of freeing research
  – 1) Papers on web sites
  – 2) Subject based repositories e.g. arXiv
• Institutions provide the infrastructure to:
  – Build
  – Populate
  – Maintain
  – Preserve
• IRs are Complementary and cross-searchable with subject based repositories
Features

- Institutionally defined
- Contain scholarly content
- Cumulative and perpetual
- Open and interoperable - Reciprocity

Source: SPARC Position Paper: The case for institutional repositories
Benefits

• Maximise the visibility and impact of research for individual researchers
• Maximise the access to research at other institutions
• Provide an opportunity to reduce annual serials expenditures
Communities and Agendas

• Faculty
  – Increase visibility of their own research
  – Increase access to others research

• Library
  – Challenge the serials crisis
  – Provide for digital preservation

• Administrators
  – Raise the profile of the institution
  – Manage University’s scholarly output
Developing an Agenda

• Organisational
  – Why have a repository? What will its role be? What will be its identity? Who will use it?

• Technology requirements
  – What software? Which platform?

• Legal and Policy
  – What IPR issues should be considered? What will the content licence be like?

• Costing models
  – How will it be funded? How much will it cost?

Source: LEADIRS Seminar Programme
Developing Policies

• Institutional Policy
  – Will it encourage self-archiving?

• Collection Policy
  – What will be accepted?
  – Who will ensure copyright clearance?

• Submission Policy
  – Who can submit content?
  – Will there be editorial control?

• Metadata Policy
  – What metadata may be harvested?
California Institute of Technology
Caltech Library System Digital Collections

Repository Policy Document
caltechEERL

Date: June 2002

Archive Unique Identifier: caltechEERL

Archive Name: Caltech Earthquake Engineering Research Laboratory Reports

Data Provider: Caltech Library System manages this e-print archive acting on behalf of the Earthquake Engineering Research Laboratory. As data provider of this open archive the Caltech Library System will provide a submission mechanism, a long-term storage system, and a mechanism that enables third parties to collect data from the archive.

Description of Content: Technical reports of the Earthquake Engineering Research Laboratory, Center for Research on the Prevention of Natural Disasters, Dynamics Laboratory, and Soil Mechanics Laboratory. These works were previously published.

Copyright holders: Permission has been granted by the Director of the Earthquake Engineering Research Laboratory for its publications to be archived in this manner.
Start with Early Adopters

• Identify a group of interested departments
  – Through Subject Librarians
  – Faculty interest from presentations
  – Seek volunteers

• Selection Criteria
  – A group or department friendly to your mission
  – Diversity across discipline areas
  – Diversity of content types or formats

• Provide feedback for the development of your service

Source: DSpace Early Adopters – DSpace.org
Some Cautions

• Should not be used as a means of controlling scholarly output
• Should not be distracted with policy baggage
• Should ensure that there is not a lack of institutional commitment beyond the initial implementation

Which Road(s)?

• Self-archiving
  – Authors deposit papers

• Mediated
  – Centralised/devolved deposit service on behalf of the authors

• Mixture of both
  – Different workflow for different content?

• Other Issues
  – Copyright
  – Metadata enhancement
  – Administration
IRs: A Global Movement

- UK: FAIR Programme
- Netherlands: DARE
- Australia: ARROW
- United States: DSpace [MIT]; Caltech CODA; California Digital Library; Carnegie Mellon Funded projects.
- Ireland: NUI Maynooth, DCU
UK: JISC FAIR Programme

- Focus on Access to Institutional Resources
- £2 million investment
- August 2002 – October 2005
- 14 projects
- FAIR Advisory Board (FAB!)
  - Community representation
- http://www.jisc.ac.uk/programme_fair.html
e-Prints Soton is a University of Southampton service which provides a growing database of research literature from the University.

Quick Search
Search authors, titles, keywords, dates and abstracts

Registered User Services
Certain features of this service are only available to members of Southampton University and require registration.

Browse
by subjects
by faculty, school, and other groupings
by year or latest additions

Help & Further Information
About this service
Help with using this service

TARDIs (Targeting Academic Research for Deposit and Disclosure) is a project funded by the Joint Information Systems Committee (JISC).

Contact Us
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Related Sites: University of Southampton (Research Reports), Library, TARDis Project, GNU FPrints Software
Publisher copyright policies & self-archiving

The majority of publishers support the right of academic authors to mount their own work online. Use this site to find what permissions are normally given as part of each publisher's copyright transfer agreement.

Search for a particular publisher below or view all publishers. If a publisher is not listed here you may wish to recommend that we include it.

This information is based on the publishers' listings produced by the ROMEO project, as part of the JISC FAIR programme. It is updated by community contributions - please submit any updates using the form provided.

Please note that exact usage of the terms pre-print and post-print can vary. See the definition used by these listings.

Search

Enter one or more keywords from the publisher's name:

Search

Find:  ○ Any or ○ All keywords or ○ Exact phrase only
DSpace@Erasmus

Welcome to the repository of research documents of the Erasmus University of Rotterdam!

Feel free to search, browse, and retrieve all documents from DSpace@EUR

Search

Enter some text in the box below to search DSpace.

[Search Box]

Advanced Search

Communities in DSpace

Select a community to browse its collections.

- Annual Reports
- Arts (FHKW)
- Erasmus centre for Sustainability and Management (FSW)
- Erasmus MC (University Medical Center Rotterdam)
- Erasmus Research Institute of Management (ERIM)
- Erasmus School of Law
- History (FHKW)
- Psychology (FSW)
- Public Administration (FSW)
- Research School Safety and Security in Society
- Rotterdam School of Economics (RSE)
Welcome to ePrints@UQ

Quick Search of Titles, Abstracts and Keywords
Simple search | Advanced search

Search

Browse
by Subject | by Year | by Author | by Latest additions

Access Statistics
By Author | Top 50 authors | Top 50 papers

Access other ePrint archives
Gateways to ePrints
Use other digital archive search tools:

ePrints@UQ is a deposit collection of papers that showcases the research output of UQ academic staff and postgraduate students across a range of subjects and disciplines, both before and after peer-reviewed publication.

The ePrints@UQ server will provide free, searchable access to this research and manage its long-term archiving.

The ePrints@UQ archive is part of a Group of Eight initiative in Australia, which aims to ensure that Australian universities' research output will be visible, accessible and usable through a global network of interlinked services such as ARChive, OAster and myOAI. See the ePrints FAQ for more information.

ePrints@UQ is running on Eprints2 archive-creating software, which generates ePrint archives that are compliant with the Open Archives Protocol for Metadata Harvesting OAI 2.0.

The eprints.org archive-creating software is available for free at http://software.eprints.org. Information and background on eprint initiatives is available from http://www.eprints.org/

ePrint@UQ conforms to the interoperability standards of the Open Archives Initiative.

Contact the site administrator at: eprints@library.uq.edu.au
Welcome to NUI Maynooth Eprint Archive

Welcome to our eprints server. This system is currently under development by the Library. The archive will act as a central source for research produced at NUI Maynooth.

Search the Titles, Abstracts and Keywords

Browse
Browse the archive by Subject, Year or Department.

Latest Additions
View items added to the archive in the past week.

Simple Search
Search the archive using the most common fields.

Registered Users Area
Registered users may submit items to the archive.

Advanced Search
Search the archive using a more extensive range of fields.

Register
Information on registering for an account.

NUI Maynooth Eprint Archive is running on the freely available EPrints2 archive-creating software, which generates e-print archives that are compliant with the Open Archives Protocol.
University of Glasgow

- Founded in 1451
- 2nd oldest University in Scotland
- 4th oldest in Britain
- 17,000 full-time students studying in ten faculties.
- Over 5,500 staff
The Glasgow Experience

• ePrints pilot service
  – November 2001

• Create Change event
  – April 2002

• DAEDALUS Project
  – August 2002 – July 2005
DAEDALUS

- Funded until June 2005
- Partner with the CURL SHERPA Project
- Core strategic aim for Glasgow University Library
- Two strands
  - Advocacy
  - Service Development
Issues we are exploring

- Cultural
  - Encouraging use: deposit and access
- Organisational
  - Copyright and IPR
- Technical
  - Standards and formats
Advocacy Remit

- to create an Open Access culture
- to gather content for the range of Open Archives services
- to provide advice on policy implications, guidelines and processes of the services
- to formulate an exit strategy that ensures a full and fully used service
From Advocacy to Population

- Range of strategies necessary – no single solution to getting content
- Different strategies for different content
- Different short term and long term strategies
- Doing things ‘by the book’ – academic staff buy-in and a sustainable service
A Mediated Model

- Copyright clearance
  - Contacting publishers
- File conversion
  - Converting content to PDF
- Deposit of papers
  - Importing records
- Enhancement of metadata
  - Assigning LC subject headings
Service Development Remit

• To provide the software infrastructure for:
  – Published papers / ePrints
  – Pre-prints, grey literature, technical reports, working papers
  – Doctoral theses
  – Research Finding Aids
  – Administrative Documents
  – Search service

• To report to JISC and the wider community about our experiences
Hardware

We are using both EPrints and DSpace and they run on the same server.

Sun Fire
- Solaris OS
- 4 Gbytes of Memory
- 12 x 36 GB Disks
Why EPrints and DSpace?

• Opportunity to work with them both
• Hardware and skill sets available
• Specific need for a publications database which EPrints.org fulfilled
• Experience with EPrints.org software
• Workflow opportunities presented by DSpace suited a more devolved model
• Digital preservation dimension
Results for Simple Search

Refine search | New search

Full Text Provided. Results ordered by title.
Displaying results 1 to 90 of 90. Search time: 1s.


Materials science: Breaking the neural code


Full text available as:
PDF - Requires Adobe Acrobat Reader or other PDF viewer.

Abstract

The precise information that is conveyed between nerve cells remains unknown. Networks of nerve cells grown on silicon chips, using a polyester as a guide, may bring us closer to translating the elusive neural language.
Your search was in the **Title** field for "**neural code**". The search was limited to the "**Glasgow ePrints Service**" archive.

You found 1 record.

* Revise your search to retrieve fewer records.
* View your results, starting with records 1 of 1.

**Record 1 of 1**

<table>
<thead>
<tr>
<th>Title</th>
<th>Materials science: Breaking the <strong>neural code</strong></th>
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<td>Curtis, Adam</td>
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<td>Institution</td>
<td>Glasgow ePrints Service</td>
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1. theMAURITIUS.COM - Breaking Technology News and Reports - Neural:Network Technology Moves into the Mainstream
theMAURITIUS.COM: New Technology news and reports. Information technology news and business report, Rss feed, XML and Java Feeds published daily. News highlights and breaking technology news on ... Username: Password: Your Code: Enter Code: ... data mining -- powered by neural-network technology -- has begun to remake the ... The neural-networking technology at work today so far has ...
www.themaauritius.com/article/512.html - 48k - Cached - More pages from this site

2. Complexity Digest 2002.13

3. HGSE News: Breaking Dyslexia's Cryptic Code
HGSE Assistant Professor Tami Katzir explores and extends the definition of dyslexia through her research in Boston, Atlanta, and Toronto ... Breaking Dyslexia's Cryptic Code. The Research of Assistant Professor Tami Katzir ... text, called the angular gyrus, became a flurry of neural activity when subjects named letters in ...
gseweb.harvard.edu/news/features/katzir11012003.html

4. Glasgow ePrints Service - Subject: QR Microbiology
eprints.gla.ac.uk/view/subjects/QR.html - 6k - Cached

5. Con't Neural Nets
www.mactech.com is the global entry point for technology information for the Apple Macintosh. Find links to all Apple Macintosh technology content here ... and train a particular type of neural network. The code is sometimes more awkward than is strictly ... Then n = Wx. Breaking this down further, let Wj be the connection between ...
www.mactech.com/articles/mactech/Vol.06/06.11/Con%27tNeuralNets - 74k - Cached

6. Viruses and worms
The latest virus and worm news, analysis and research links from Network World Fusion. ... Two years after Code Red, there are ... Breakthrough neural application compares system requests against an evolving baseline ...
www.nwfusion.com/topics/codered.html - More pages from this site

7. Turina's Neural Networks

Welcome to the Glasgow DSpace Service.

Search

Enter some text in the box below to search DSpace.

Communities in DSpace

Select a community to browse its collections.

Archive Services
Computing Service
Department of Accounting and Finance
Department of Aerospace Engineering
Department of Computing Science
Department of Economics
Department of Geography and Geomatics
Department of Mathematics
Department of Music
Department of Psychology
Department of Slavonic Studies
Department of Theatre, Film and Television Studies
Faculty of Arts
Library
Research and Enterprise
SCRE Centre
Department of Computing Science

Community home page

The Department is internationally recognised for its research which is organised around 5 major groups, each of which run its own weekly seminar series. There are currently 35 academic staff, 70 research students and 37 research assistants and fellows in the Department. We currently host 24 EPSRC-funded research projects, 6 EC-funded projects, 7 industrially funded projects, and several research fellowships. The current grants and fellowships total more than £6M. The Department was rated 5 in the 2001 RAE.

Please Note: DSpace does not contain all of the research output of the Department of Computing Science.

Collections in this community

- Ph.D. Theses (Computing Science)
- Research Group: Bioinformatics
- Research Group: Computer Vision and Graphics
- Research Group: Formal Analysis, Theory and Algorithms
- Research Group: Human Computer Interaction (GIST)
- Research Group: Information Retrieval
- Research Group: Networked Systems Measurement and Control
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<th>Date of Issue</th>
<th>Title</th>
<th>Authors</th>
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<td>2002</td>
<td>Audio feedback for gesture recognition</td>
<td>Williamson, John; Murray-Smith, Rodenick</td>
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<tr>
<td>Jun-2002</td>
<td>Bayesian regression and classification using mixtures of Gaussian processes</td>
<td>Shi, Jan Qing; Murray-Smith, Rodenick; Titterington, D. M.</td>
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<td>2003</td>
<td>Combining and comparing clustering and layout algorithms</td>
<td>Morrison, Alistair; Ross, Greg; Chalmers, Matthew</td>
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<td>29-Apr-2003</td>
<td>A design space for location-sensitive aids for older users</td>
<td>Goodman, Joy; Gray, Philip</td>
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<tr>
<td>11-Jun-2003</td>
<td>Dynamics and probabilistic text entry</td>
<td>Williamson, John; Murray-Smith, Rodenick</td>
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<td>2002</td>
<td>Feature Interaction detection by pairwise analysis of LTL properties</td>
<td>Calder, Muffy; Miller, Alice</td>
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<tr>
<td>2002</td>
<td>Hierarchical Gaussian process mixtures for regression</td>
<td>Shi, Jan Qing; Murray-Smith, Rodenick; Titterington, D. M.</td>
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<tr>
<td>Jun-2003</td>
<td>Learning a Gaussian process model with uncertain inputs</td>
<td>Girard, Agathe; Murray-Smith, Rodenick</td>
</tr>
<tr>
<td>6-Feb-2004</td>
<td>Managing a Reconfigurable Processor in a General Purpose Workstation Environment</td>
<td>Dales, Michael Winston</td>
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<td>Jun-1996</td>
<td>Minimaximal and maximimal optimisation problems: a partial order-based approach</td>
<td>Manlove, David Francis</td>
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<td>Jul-2003</td>
<td>Nonlinear modelling of FES-supported standing up in paraplegia for selection of feedback sensors</td>
<td>Kamnik, Roman; Shi, Jian Qing; Murray-Smith, Rodenick; Bajd, Tadej</td>
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</tbody>
</table>
Please use this identifier to cite or link to this item: http://hdl.handle.net/1721.1/77

**Title:** Feature Interaction detection by pairwise analysis of LTL properties

**Authors:** Calder, Muffy
Miller, Alice

**Keywords:** Communicating processes
Distributed systems
Model checking
Feature interaction
Communications services

**Issue Date:** 2002

**Publisher:** Department of Computing Science, University of Glasgow

**Series/Report no.:** DCS Tech Report; TR-2002-116

**Abstract:** A Promela model and a set of temporal properties are developed for a basic call service with a number of features. The properties are expressed in the logic of LTL. Interactions between features are detected by pairwise analysis of features and properties. The analysis quickly results in both state-space and property case explosion. To overcome this state-spaces are minimised, model checking results generalised through symmetry and bisimulation, and analysis performed automatically using scripts. The result is more extensive feature interaction analysis than others in the field.

**URI:** http://hdl.handle.net/1721.1/77

**Appears in Collections:** Research Group: Formal Analysis, Theory and Algorithms

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<td>381Kb</td>
<td>Adobe PDF</td>
<td>View/Open</td>
</tr>
</tbody>
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Summary

• Discuss, debate and engage your academic colleagues
• Align your repository with the needs of your communities
• Identify and work with early adopters
• Develop and shape appropriate policies
• Become the catalyst for “utter freedom” in your institution
Further Information

- SPARC Institutional Repository Guide
  http://www.arl.org/sparc/IR/IR_Guide.html
- A Guide to Institutional Repository Software
  http://www.soros.org/openaccess/software/
- “Institutional Repositories” Clifford Lynch,
  ARL Bimonthly report 226
  http://www.arl.org/newsltr/226/ir.html
DAEDALUS –
Freeing Research at the University of Glasgow

http://www.gla.ac.uk/daedalus