

<http://eprints.ecs.soton.ac.uk/21281/>

Repositories and Linked Data

International Conference on Advances and Emerging
Trends in Computing Technologies

SRM University, Chennai, India

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University of Southampton and Seme4 Ltd. UK

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UNIVERSITY OF
Southampton
School of Electronics
and Computer Science



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Repositories

- **Eg Dspace, ePrints**
- **Open sharing of material (usually)**
- **Benefit scientific research**
 - Makes available results
 - Quickly
 - Accessible to almost all
- **Benefit researchers**
 - A vehicle for publication and easy access
 - Reputation is enhanced
 - Online access is many times more seen than paper
- **Some argue**
 - Researchers do the work, often funded by government
 - They give the outputs to publishers (or even pay)
 - Then they pay to get the outputs back from the publishers

- **Which repositories?**

- Institutional
- Professional organisation
- Governments and other stakeholders
- Publishers
- Third parties

- **What?**

- Open Archive people are concerned to make the content public
- Here, we are concerned primarily with the metadata

- **Metadata publishing should be non-controversial**

- But many organisations do not understand!

Linked Data – some little motivation

The screenshot shows a web browser window with the URL `http://data.gov.uk/`. The page header includes the HM Government logo and the text "data.gov.uk" with a "BETA" badge. A navigation menu contains links for Home, Blog, Data, SPARQL, Apps, Ideas, Forum, Wiki, Resources, and About. A search bar is located on the right side of the navigation menu.

The main content area features a large banner with the text "Unlocking innovation" and "Working with UK Public Sector information and data" next to a blue molecular structure graphic. Below this is a "Latest datasets" section with a list of recent updates:

- 18 June** Estimated government [workforce](#) including consultants
- 14 June** More [COINS](#) public spending data: now covers 2005 to 2010
- 10 June** Lists of [all Special Advisers](#) and [Cabinet Office staff](#)
- 4 June** The [COINS database](#) of public spending

Below the datasets is a "What we do" section with a paragraph: "data.gov.uk is a key part of the Government's [Transparency programme](#) for the UK public sector as a whole. Working with Sir Tim Berners-Lee, Professor Nigel Shadbolt and Tom Steinberg and other members of the Cabinet Office Minister's new [Public Sector Transparency Board](#) this site seeks to give a way into the wealth of government data becoming available. It's under constant development and we want to work with you to make it better."

At the bottom, there are two buttons: "Search Data" and "Browse for Data". The "Search Data" button is accompanied by a search input field and a "Search" button. The "Browse for Data" button is accompanied by a "Random dataset" link.

On the right side of the page, there are several widgets: "Subscribe by RSS" with an RSS icon, "Community Log in / Sign up", "Local Data Panel", "What is the Semantic Web?" with a sub-headline "Combining different data sources has never been easy but the Semantic Web will enable data to be joined easily across boundaries." and a "Read more" button, and "Digital Engagement Twitter stream" with a Twitter bird icon and the text "RT".



Seme4.com

DATA.gov

DATA http://www.data.gov/ Wittgenstein

News WRPMO Single (24) And same as sameas Furniture iPhone ECS UoS DH ReSIST MacOS X Football RKB ENT

DATA Data.gov

An Official Web Site of the United States Government Sunday, June 20, 2010 Text: A+ A- A Share



HOME DATA TOOLS COMMUNITY METRICS DIALOGUE

A GLOBAL MOVEMENT TO DEMOCRATIZE DATA

VIEW MORE ▶



Most Popular Datasets

1. US Topo 7.5-minute map for Imperial, TX
2. U.S. Overseas Loans and Grants (Greenbook)
3. Worldwide M1+ Earthquakes, Past 7 Days
4. Latest Volumes of Foreign Relations of the...
5. MyPyramid Food Raw Data

SEARCH OUR CATALOGS

Search our catalogs.. SEARCH ▶

APPS



With so much government data to work with, developers are creating a wide variety of applications, mashups, and visualizations. From crime statistics by neighborhood to the best towns to find a job to seeing the environmental health of your community—these applications arm citizens with the information they need to make decisions every day. Enjoy these highlights of the hundreds of applications available.

COMMUNITY

Data.gov is leading the way in democratizing public sector data and driving innovation. The data is being surfaced from many locations making the Government data stores available to researchers to perform their own analysis. Developers are finding good uses for the datasets, providing interesting and useful applications that allow for new views and public analysis. This is a work in progress, but this movement is spreading to cities, states, and other countries. After just one year a community is born around open government data.

Just look at the numbers:

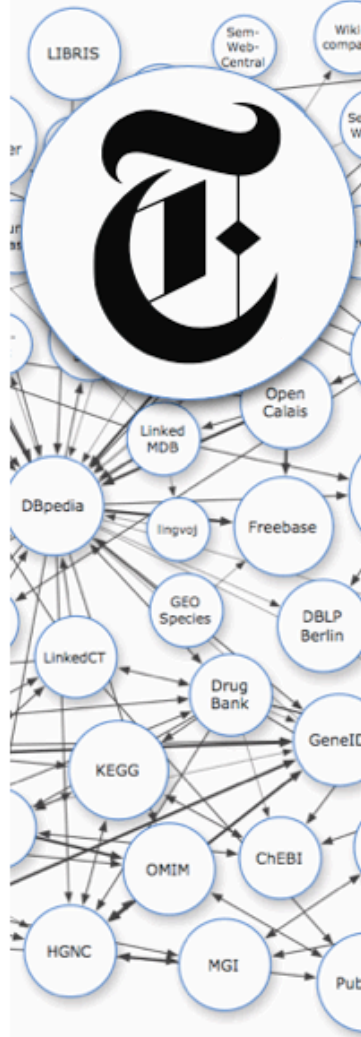
- 6 Other nations establishing open data
- 8 States now offering data sites
- 8 Cities in America with open data
- 236 New applications from Data.gov datasets

SEMANTIC WEB

As the Web of linked documents evolves to include the Web of linked data, we're working to maximize the potential of Semantic Web technologies to realize the promise of Linked Open Government Data.



Thanks to our collaboration with the **Tetherless World Constellation** at the **Rensselaer Polytechnic Institute**, Data.gov is now hosting one of the largest open collections of RDF datasets in the world! Check out some of their semantic mashups **we're featuring** and read our blog entry to learn more about where we are, where we're going, and why we think this



data.nytimes.com

For the last 150 years, The New York Times has maintained one of the most authoritative news vocabularies ever developed. In 2009, we began to publish this vocabulary as linked open data.

The Data

As of 13 January 2010, The New York Times has published approximately 10,000 subject headings as linked open data under a CC BY license. We provide both RDF documents and a human-friendly HTML versions. The table below gives a breakdown of the various tag types and mapping strategies on data.nytimes.com.

Type	Manually Mapped Tags	Automatically Mapped Tags	Total
People	4,978	0	4,978
Organizations	1,489	1,592	3,081
Locations	1,910	0	1,910
			9,969

Browse individual data records:

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

SKOS Files

Download all of the data records as SKOS Files.

- [People](#)
- [Organizations](#)
- [Locations](#)

Using Our Linked Data

Want to learn more about the nuts and bolts of our RDF documents? [This page](#) provides technical documentation. [This blog post](#) provides step-by-step instructions for building your own NYT Linked Data Application.



Text only Help

Search

Explore the BBC

Sign in Register

MUSIC BETA

GENRES ARTISTS REVIEWS NEWS BLOG

QUICK FIND

BBC Music > Artists > Iron Maiden

Iron Maiden

Formed 1975.
English heavy metal band

PLAYED MOST ON BBC RADIO



Robert Knight/Redferns

Biography

Iron Maiden are an English heavy metal band from Leyton in East London, formed in 1975. The band is directed by founder, bassist and songwriter Steve Harris. Since their inception, the group has released a collective total of thirty albums: fourteen studio albums, seven live albums, four EPs and five compilations.

Pioneers of the New Wave of British Heavy Metal, with such an original sound they achieved success during the early 1980s and after several lineup changes, went on to release a series of platinum and gold albums. These include the US platinum-selling landmarks *The Number of the*

Now On The BBC

Bruce Dickinson's Friday Rock Show

Bruce plays brand new and classic metal with an array of top flight guests on 6 Music



Latest Tracks Played On The BBC

Run To The Hills

BBC 6 Music | [Lauren Laverne 08/04/2010](#)



Run To The Hills (Live at Maida Vale)

BBC Radio 1 | [Dev 02/04/2010](#)



Aces High

BBC 6 Music | [Jon Holmes 27/02/2010](#)




British Museum - Search object details

http://www.britishmuseum.org/research/search_the_collection_database/search_object_details.aspx?objectId=11763

News WRP MO Single (24) And same as sameas Furniture iPhone ECS UoS DH ReSIST MacOS X Football RKB ENT iPhone App

British Museum - Search object ...




AN16456004

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[Larger image](#)

[Use digital image](#)

[Print record](#)



Gallery Side: right Side: left

Department: Ancient Egypt & Sudan

Registration number: .24

BM/Big number: 24

Additional IDs
BS.24

Location:
G4/CSE

[Commission photography](#)

[Back to search results](#)

[Back to search](#)

Excavated/Findspot Fort Saint Julien ([all objects](#))

Date
196BC

Period/Culture
Ptolemaic ([scope note](#) | [all objects](#))

Description
Part of grey and pink granodiorite stela bearing priestly decree concerning Ptolemy V in three blocks of text: Hieroglyphic (14 lines), Demotic (32 lines) and Greek (53 lines).

Inscriptions
Inscription Type: inscription
Inscription Language: Greek

Inscription Type: inscription
Inscription Script: hieroglyphic
Inscription Language:

Inscription Comment: The inscription is a decree passed by a council of priests, one of a series that affirm the royal cult of the 13 year-old Ptolemy V on the first anniversary of his coronation.

Inscription Type: inscription
Inscription Script: demotic
Inscription Language:

Dimensions
Length: 112.3 centimetres (max)
Width: 75.7 centimetres
Thickness: 28.4 centimetres

[More about object](#) **Conservation**

[April 2010 - Temporary Exhibition](#) +

[April 1992 - Examination](#) +

[About these records](#)

[Previous](#) 4 of 26 [Next](#)

One error in opening the page. For more information, choose Window > Activity.

Vague but exciting...

CERN DD/OC
Information Management: A Proposal

Tim Berners-Lee, CERN/DD
March 1989

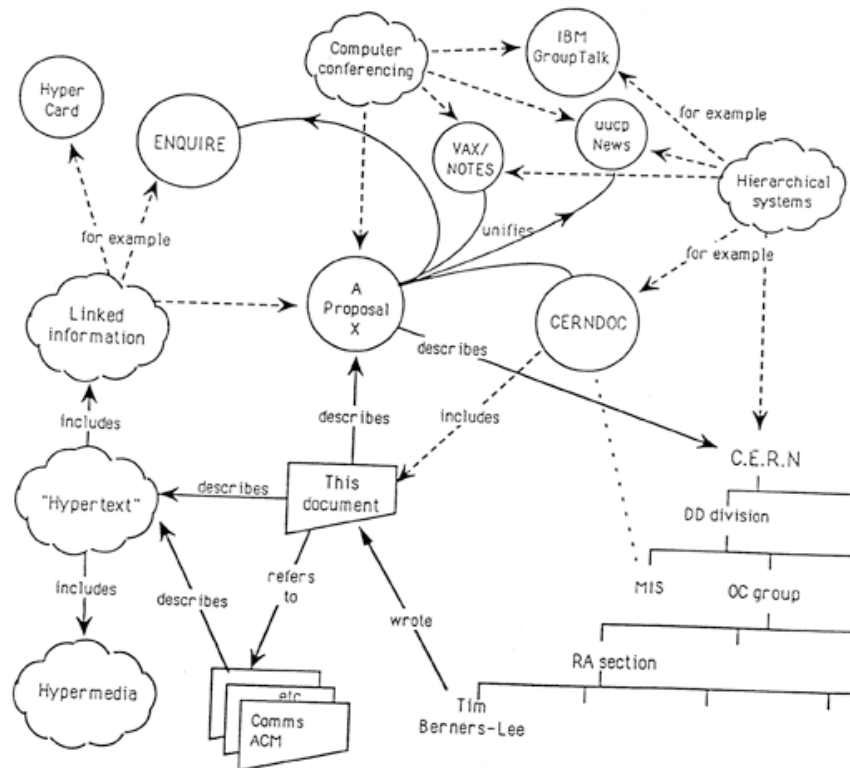
<http://www.w3.org/History/1989/proposal.html>

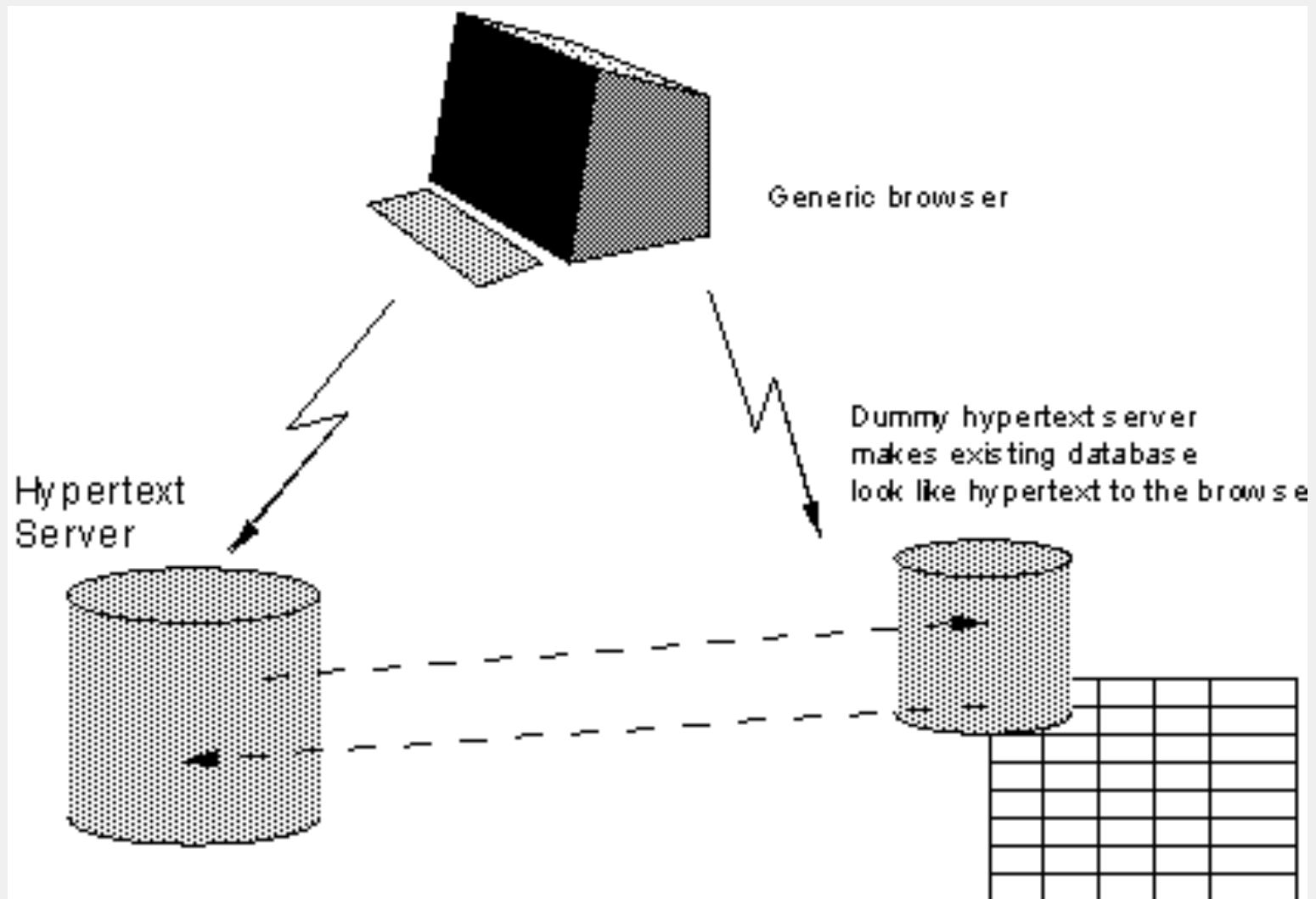
Information Management: A Proposal

Abstract

This proposal concerns the management of general information about accelerators and experiments at CERN. It discusses the problems of loss of information about complex evolving systems and derives a solution based on a distributed hypertext system.

Keywords: Hypertext, Computer conferencing, Document retrieval, Information management, Project control





Linked Data

Tim Berners-Lee speaks on Linked Data

This slide set was presented at the TED 2009 conference, "The Great Unveiling" in Long Beach, CA. USA, 4, Feb 2009.

- **Tim Berners-Lee**

- <http://www.w3.org/2009/Talks/0204-ted-tbl/>
- “the Semantic Web done right, and the Web done right”



Linked Data Principles

1. Use URIs as names for things

- **Everything**
 - If you don't name something you can't talk about it
 - Things of course
 - Year of publication
 - Ideas
 - ...
- **Cool URIs**
 - Think of the consumer/customer
 - https://secure.ecs.soton.ac.uk/gizmos/person_by_username.php?username=hg
 - <https://secure.ecs.soton.ac.uk/person/username/hg>
- **RESTful Interfaces**
- **Ambiguity**
 - URIs help to avoid it, especially if you...

2. Use HTTP URIs so that people can look up those names

- HTTP URI names come with an excellent look up mechanism
- And ownership, etc.

3. When someone looks up a URI, provide useful information, using the standards (RDF, SPARQL)

- **So they know what you mean**
- **Deliver some human readable data**
 - html
- **Deliver some machine processable data**
 - RDF
 - JSON
 - CSV
 - text

RDF (Resource Description Framework)

“Hugh Glaser works for the University of Southampton”

person-00021

name

"Hugh Glaser"

person-00021

works-for

Southampton_University

Southampton_University

label

"The University of Southampton"

17

How to Publish Linked Data on the Web:- <http://www4.wiwiss.fu-berlin.de/bizer/pub/LinkedDataTutorial/>

RDF (Resource Description Framework)

“Hugh Glaser works for the University of Southampton”

```
<http://southampton.rkbexplorer.com/id/person-00021>  
  <http://xmlns.com/foaf/0.1/name>  
    "Hugh Glaser" .
```

```
<http://southampton.rkbexplorer.com/id/person-00021>  
  <http://aktors.org/ontology/portal#works-for>  
    <http://dbpedia.org/resource/Southampton_University> .
```

```
<http://dbpedia.org/resource/Southampton_University>  
  <http://www.w3.org/2000/01/rdf-schema#label>  
    "The University of Southampton" .
```

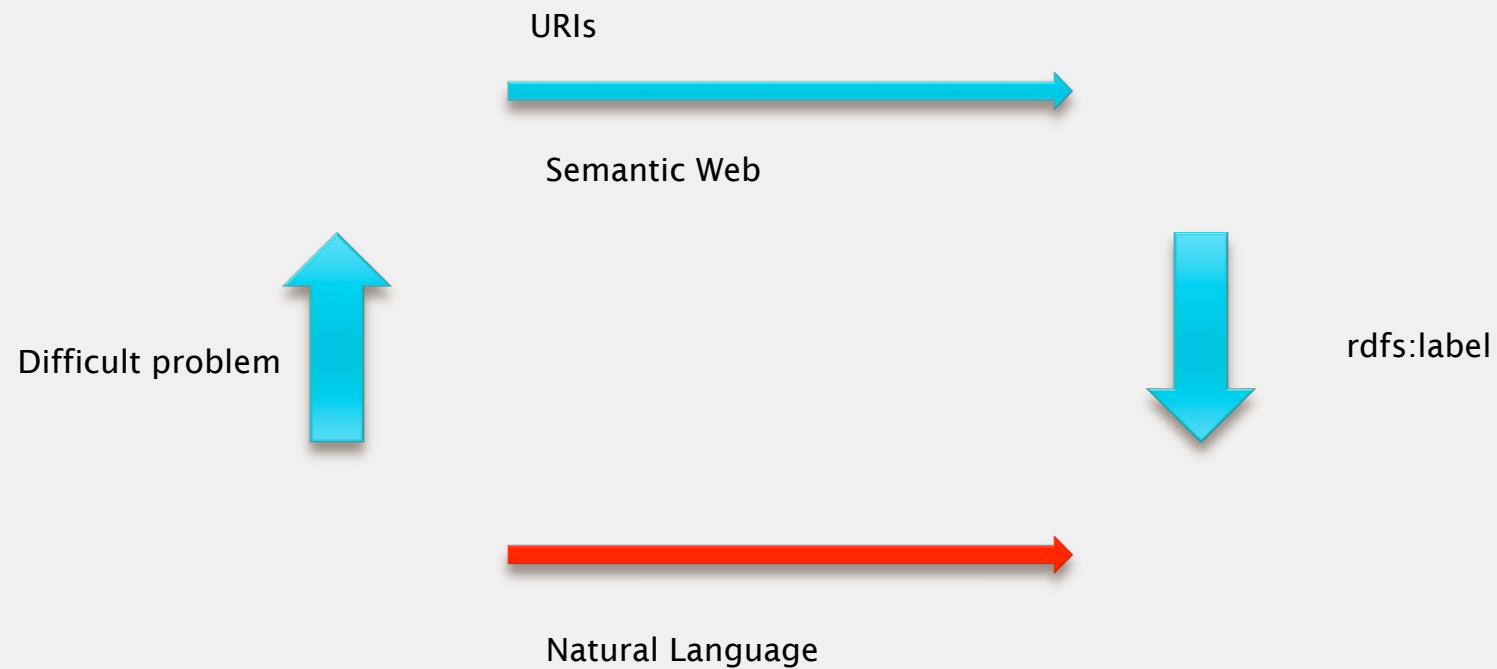
RDF (Resource Description Framework)

- **RDF Triples constitute a graph**
 - <subject-uri> <predicate-uri> <object-uri>
 - <subject-uri> <predicate-uri> “String”
- ***ontologies* define vocabularies, types and relationships**
- **Agreed URIs facilitate linkage between datasets**

4. Include links to other URIs. so that they can discover more things

- **“Foreign” URIs**
 - `dbpedia:Southampton_University`
- **Equivalence**
 - `owl:sameAs`
 - `skos:exactMatch`
 - ...

Making Processing “safer”



Example – This Presentation in HTML

The screenshot shows a web browser window with the URL <http://eprints.ecs.soton.ac.uk/21281/>. The page is titled "Repositories and Linked Data" and is part of the University of Southampton School of Electronics and Computer Science. The page content includes:

- ECS Research** sidebar with links: Research Groups, Researcher Profiles, Research Themes, Graduate School, Seminars, Research Facilities, Centres and Institutes, Latest Technologies.
- Publications** sidebar with links: Publications Home, This weeks new additions, Search, Browse by research group, Browse by year.
- Intranet Tools** sidebar with links: Add publications, Modify REF2013 Information, RSS 1.0 Feed, RSS 2.0 Feed, Atom Feed.
- Main Content:**
 - Repositories and Linked Data** section with a citation: Glaser, H. and Millard, I. (2010) Repositories and Linked Data. In: *International Conference on Advances and Emerging Trends in Computing Technologies*, 21-24th June 2010, Chennai, Tamil Nadu, India.
 - Text: Full text not available from this repository.
 - Item Type:** Conference or Workshop Item
 - Creator/Authors:** Hugh Glaser, Ian Millard (with profile pictures).
 - Research Group:** Intelligence, Agents, Multimedia
 - Date:** 22 June 2010
 - Information about this record:**
 - ID Code:** 21281
 - Last Modified:** 21 Jun 2010 22:52
 - Deposited On:** 21 Jun 2010 22:52 by **Glaser, Hugh**
 - Tools:** Look up in Google Scholar
 - Metadata:** ID Plus Text Citation (dropdown), Export button
 - Corrections:** ECS staff and postgraduates may [modify this record](#)

This Presentation in RDF

<http://eprints.ecs.soton.ac.uk/id/eprint/21281>

bibo:authorList <<http://eprints.ecs.soton.ac.uk/id/eprint/21281#authors>>;

bibo:presentedAt epid:event/ext-7db7153daf85bc7459505d6c30e743ff;

dct:creator epid:person/ext-21,epid:person/ext-4860;

dct:date "2010-06-22";

dct:isPartOf <<http://eprints.ecs.soton.ac.uk/id/repository>>;

dct:title "Repositories and Linked Data" ^^xsd:string;

rdf:type

bibo:AcademicArticle

bibo:Article,

ep:ConferenceltemEPrint,

ep:EPrint;rdfs:seeAlso <<http://eprints.ecs.soton.ac.uk/21281/>> .

<http://eprints.ecs.soton.ac.uk/id/eprint/21281#authors>

rdf:_1 epid:person/ext-21;

rdf:_2 epid:person/ext-4860 .

Machine-Processable Metadata

- **Accessible data**
- **Common vocabularies**
- **Relations**
 - Eg dct:creator
- **Instances**
 - Eg epid:person/ext-21

Metadata Out There

- **Current statistics for this RDF repository (<http://oai.rkbexplorer.com/sparql/>) —**
- **Last data assertion 2010-01-06 21:22:05**
- **Number of triples 24206591**
- **Number of symbols 8512102**
- **Size of RDF dataset 22G**

In the OAI.rkbexplorer.com Repository

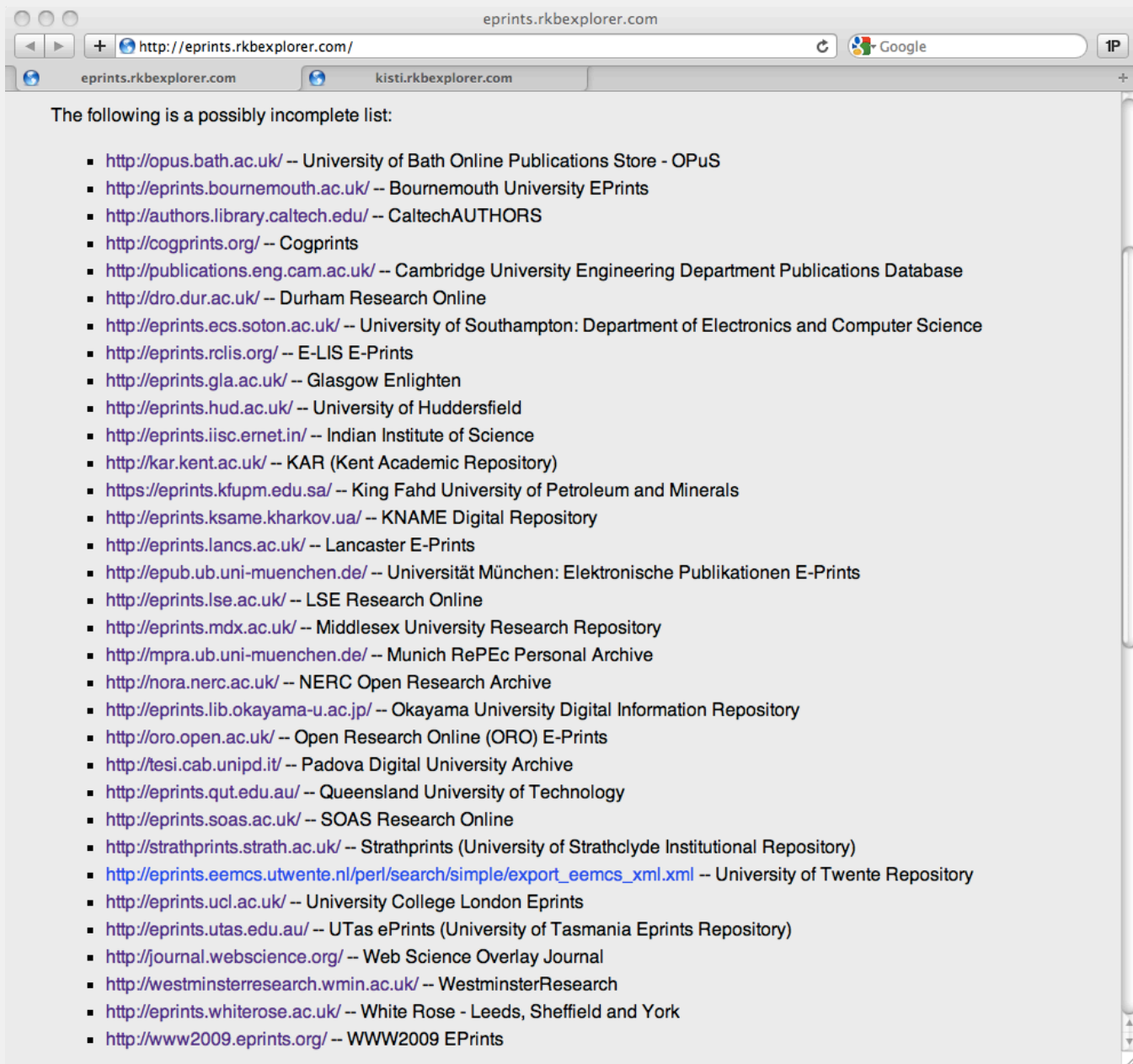
```
Small — ssh — 154x29 — 8
[hg@cohen data]$ l
ar az bg bw ch co cu de edu es fr gh hk id in is jp kz mx net nl org ph pt sa si tw uk ve za
at bd bo by cl com cy dk ee et fx gov hr ie int it kg lk my ng no other pk ro se th ua us ws zw
au be br ca cn cr cz ec eg fi gb gr hu il ir jm kr mil na ni nz pe pl ru sg tr ug uy yu
[hg@cohen data]$ l in
Allama-Iqbal-Library-Digital-Collection
Bioinformation
DSpace-INFLIBNET-Home
DSpace-at-Bangalore-Management-Academy-Home
DSpace-at-Guru-Gobind-Singh-Indraprastha-University-Delhi
DSpace-at-ICFAI-BUSINESS-SCHOOL-IBS-Ahmedabad
DU-Eprint-Archive
Delhi-College-of-Engineering
Digital-Knowledge-Repository-of-Central-Drug-Research-Institute-DKR-CDRI
Dspace-IIA-Indian-Institute-of-Astrophysics
Dyuthi-at-CUSAT
EPrints-IIT-Delhi-Home
ETD-IISc-Electronic-Theses-and-Dissertations-at-Indian-Institute-of-Science
Eprints-MDRF
Eprints-NML
Eprints-SBT-MKU
ISI-Library-Bangalore
Indian-Institute-of-Information-Technology
Indian-Institute-of-Management-Kozhikode
Indian-Institute-of-Science-Bangalore-India
Institutional-repository-at-MDI
Kautilya
Librarians-Digital-Library
[hg@cohen data]$
MedknowEprints
NAL-IR
NISCAIR-ONLINE-PERIODICALS-REPOSITORY-NOPR
National-Center-for-Antarctic-Research-Goa-India
National-Centre-for-Catalysis-Research-IIT-Catalysis-Database
National-Institute-Of-Oceanography-India
National-Institute-of-Immunology-NII-India
National-Institute-of-Technology-Rourkela-India
National-chemical-Laboratory-Pune
OneWorld-South-Asia-Open-Archive-Initiative
Open-Access-Repository-of-Indian-Theses
OpenMED-NIC
Rajiv-Ghandi-Center-For-Biotechnology
Raman-Research-Institute-Digital-Repository
S-V-National-Institute-of-Technology-Repository
Welcome-to-ethesis-nitr-ethesis
commands.sh
ePrints-IIMK-Indian-Institute-of-Management-Kozhikode-Scholarship-Repository
eprints-immt
fetch.log
http-www-freewebs-com-siddhapapers-20071109114146
last_update
roar_list.csv
```

Somehow Open Data should offer Linkage

- **At present very little linkage between repositories**

- **Our other data stores:**

ePrints repositories



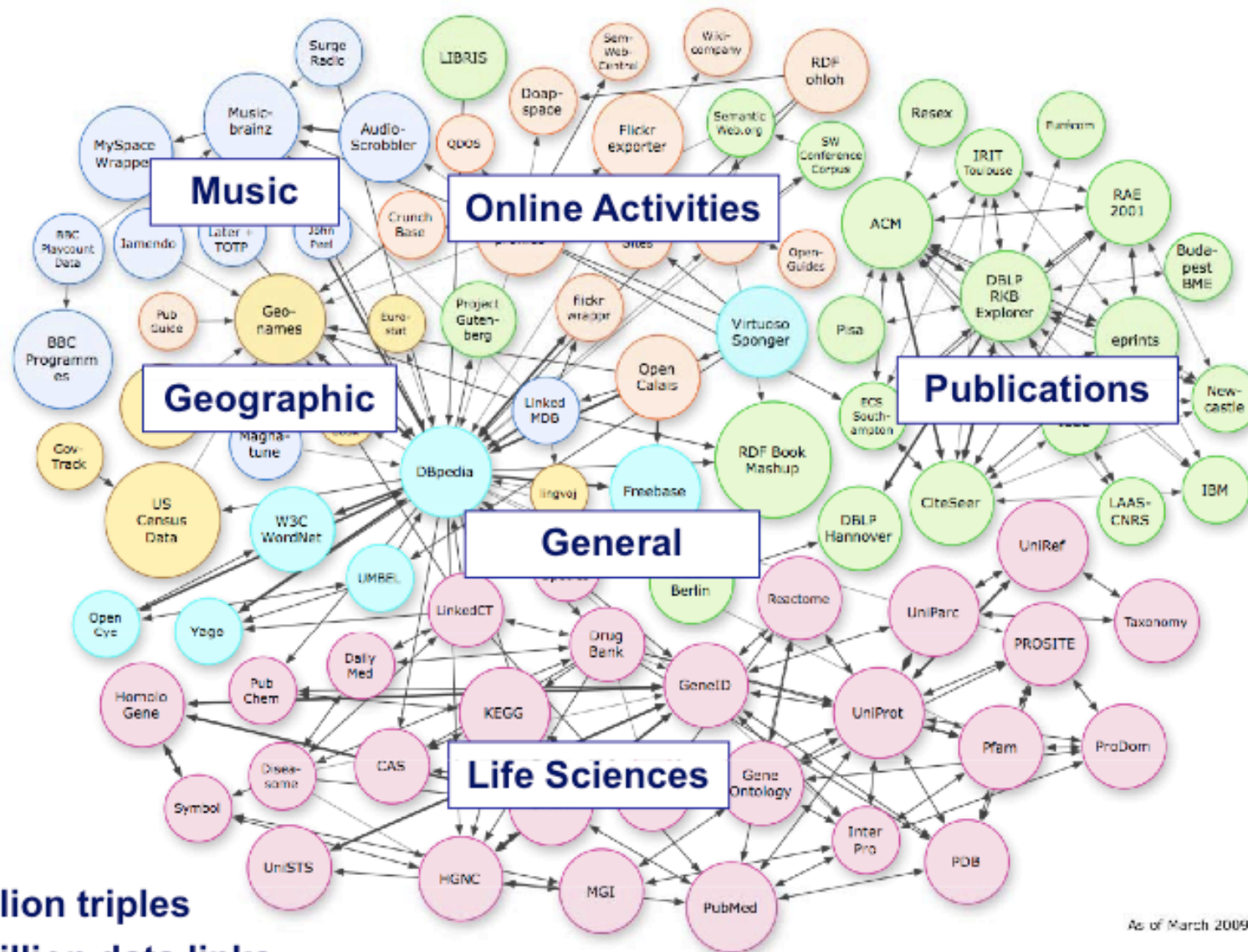
The following is a possibly incomplete list:

- <http://opus.bath.ac.uk/> -- University of Bath Online Publications Store - OPuS
- <http://eprints.bournemouth.ac.uk/> -- Bournemouth University EPrints
- <http://authors.library.caltech.edu/> -- CaltechAUTHORS
- <http://cogprints.org/> -- Cogprints
- <http://publications.eng.cam.ac.uk/> -- Cambridge University Engineering Department Publications Database
- <http://dro.dur.ac.uk/> -- Durham Research Online
- <http://eprints.ecs.soton.ac.uk/> -- University of Southampton: Department of Electronics and Computer Science
- <http://eprints.rclis.org/> -- E-LIS E-Prints
- <http://eprints.gla.ac.uk/> -- Glasgow Enlighten
- <http://eprints.hud.ac.uk/> -- University of Huddersfield
- <http://eprints.iisc.ernet.in/> -- Indian Institute of Science
- <http://kar.kent.ac.uk/> -- KAR (Kent Academic Repository)
- <https://eprints.kfupm.edu.sa/> -- King Fahd University of Petroleum and Minerals
- <http://eprints.ksame.kharkov.ua/> -- KNAME Digital Repository
- <http://eprints.lancs.ac.uk/> -- Lancaster E-Prints
- <http://epub.uni-muenchen.de/> -- Universität München: Elektronische Publikationen E-Prints
- <http://eprints.lse.ac.uk/> -- LSE Research Online
- <http://eprints.mdx.ac.uk/> -- Middlesex University Research Repository
- <http://mpira.uni-muenchen.de/> -- Munich RePEc Personal Archive
- <http://hora.nerc.ac.uk/> -- NERC Open Research Archive
- <http://eprints.lib.okayama-u.ac.jp/> -- Okayama University Digital Information Repository
- <http://oro.open.ac.uk/> -- Open Research Online (ORO) E-Prints
- <http://tesi.cab.unipd.it/> -- Padova Digital University Archive
- <http://eprints.qut.edu.au/> -- Queensland University of Technology
- <http://eprints.soas.ac.uk/> -- SOAS Research Online
- <http://strathprints.strath.ac.uk/> -- Strathprints (University of Strathclyde Institutional Repository)
- http://eprints.eemcs.utwente.nl/perl/search/simple/export_eemcs_xml.xml -- University of Twente Repository
- <http://eprints.ucl.ac.uk/> -- University College London Eprints
- <http://eprints.utas.edu.au/> -- UTas ePrints (University of Tasmania Eprints Repository)
- <http://journal.webscience.org/> -- Web Science Overlay Journal
- <http://westminsterresearch.wmin.ac.uk/> -- WestminsterResearch
- <http://eprints.whiterose.ac.uk/> -- White Rose - Leeds, Sheffield and York
- <http://www2009.eprints.org/> -- WWW2009 EPrints



Seme4.com

LOD Datasets on the Web: March 2009



4.5 billion triples
180 million data links

As of March 2009

Context: RKB and RKBExplorer

- **RKB (ReSIST Knowledge Base) and RKBExplorer**
- **Knowledge-enabled infrastructure for cooperation in research into resilient systems**
- **Came out of CS AKTiveSpace**
 - (Semantic Web Challenge winner 2003)
- **Reasonably mature system and ongoing development**

RKBExplorer – the ReSIST Project

RKBExplorer » Projects » ReSIST Resilience for Survivability in IST

http://www.rkbexplorer.com/explorer/#display=project-%7Bhttp%3A//wiki.rkbexplorer.com/id/resist%7D

Search... Search

- about
- system requirements
- help
- data sources
- contact
- acknowledgements

Related projects

```

    graph TD
      ReSIST((ReSIST Resilience for ...))
      PDCS2((PDCS 2))
      SHIP((SHIP))
      CABERNET1((CABERNET))
      AMSD((AMSD))
      BROADCAST((BROADCAST))
      AMODEUS2((AMODEUS 2))
      MAFTIA((MAFTIA))
      DEVA((DEVA))
      CABERNET2((CABERNET))

      ReSIST --- PDCS2
      ReSIST --- SHIP
      ReSIST --- CABERNET1
      ReSIST --- AMSD
      ReSIST --- BROADCAST
      ReSIST --- AMODEUS2
      ReSIST --- MAFTIA
      ReSIST --- DEVA
      ReSIST --- CABERNET2
    
```

Details

Title:
Resilience for survivability in IST

Other Names:
ReSIST Resilience for Survivability in IST

Project Overview:
ReSIST is a NoE that addresses the strategic objective "Towards a global dependability and security framework" of the Work Programme, and responds to the stated "need for resilience, self-healing, dynamic content and volatile environments". It will integrate leading researchers active in the multidisciplinary domains of Dependability, Security, and Human Factors, in order that Europe will have a well-focused coherent set of research activities aimed at ensuring that future "ubiquitous computing systems", the immense systems of ever-evolving networks of computers and mobile devices which are needed to support and provide Ambient Intelligence (AmI), have the necessary resilience and survivability, despite any residual development and physical faults, interaction mistakes, or malicious attacks and disruptions. The objectives of the Network are: 1) Integration of teams of researchers so that the fundamental topics

People

- Jean-Claude Laprie
- Aad van Moorzel
- Abdelmajid Khelil
- Achour Mostefaou
- Adnan Noon Mian
- Afraz Jaffri
- Agnan de Bonneval
- Alberto Pasquini
- Alessia Milani

Organisations

- The University of Newcastle upon Tyne
- LAAS-CNRS
- CITY UNIVERSITY LONDON
- Laboratoire d'Analyse et d'Architecture des Systèmes
- The University of Pisa
- Institut Eurecom
- Technische Universität Darmstadt
- UNIVERSITA DEGLI STUDI DI ROMA "LA SAPIENZA" - UNIVERSITY OF ROME "LA SAPIENZA"

Publications

- Malicious- and Accidental-Fault Tolerance in Internet Applications: conceptual model and architecture
- Conceptual Model and Architecture
- Conceptual model and architecture of MAFTIA
- ASSERT Automated proof based system and software engineering for real-time applications
- Malicious- and Accidental-Fault Tolerance in Internet Applications: reference model and use cases
- Revised version in Predictably dependable computing systems

Research Areas

- Testing
- Safety
- Trust
- Human Made Fault
- Symbolic Execution
- Dependability And Security Provision
- Dependability, High Confidence, Survivability
- Development Fault
- Environment



RKBExplorer.com

RKBExplorer » People » Nigel Shadbolt

Search... Search

- about
- help
- contact
- system requirements
- data sources
- acknowledgements

Related people

Details

Full Name: [Nigel Shadbolt](#)

Works For: [University of Southampton](#)

Telephone: +44 (0)23 8059 7682

Fax: +44-602-590339

Email Address: nrs@ecs.soton.ac.uk

Web Address: <http://www.ecs.soton.ac.uk/people/nrs>

Web Address: http://en.wikipedia.org/wiki/Nigel_Shadbolt

Description: Nigel Richard Shadbolt is Professor of Computer Science University of Southampton in southern

People	Organisations	Publications	Research Areas
Kieron O'Hara	University of Southampton	Facilitating Knowledge Management in Pervasive Health Care Systems	I.2.6. Learning
Harith Alani	Intelligence, Agents and Multimedia	A Controlled Natural Language Interface for Semantic Media Wiki Using the Rabbit Language	I.2.1. Applications and Expert Systems
Nicholas Gibbins	Intelligence, Agents, Multimedia Group	A Controlled Natural Language Interface for Semantic Media Wiki Using the Rabbit Language	I.2.4. Knowledge Representation Formalisms and Methods
David De Roure	School of Electronics and Computer Science	Contextualising Tags in Collaborative Tagging Systems	Computer Science
Paul Lewis	UNIVERSITY OF NOTTINGHAM	Lifelogging: Privacy and Empowerment with Memories for Life	I.2.11. Distributed Artificial Intelligence
Paul Smart		Lifelogging: Privacy and Empowerment with Memories for Life	H.3.4. Systems and Software
Terry Elliott		On Measuring Expertise in Collaborative Tagging Systems	H.3.5. Online Information Services
Bo Hu		On Measuring Expertise in Collaborative Tagging Systems	I.2.0. General
Srinandan Dasmahapatra			I.2.7. Natural Language Processing
Yannis Kalfoglou			
Nick Jennings			

Applet eu.resist.rkb.RKBExplorer2 started



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Or a Paper


RKBEplorer » Publications » A Web-Based Resource Model for eScience: Object Reuse & Exchange

http://www.rkbexplorer.com/explorer/#display=publication-%7Bhttp%3A//dblp.rkbexplorer.com/id/journals/corr/abs-0811-05: Google

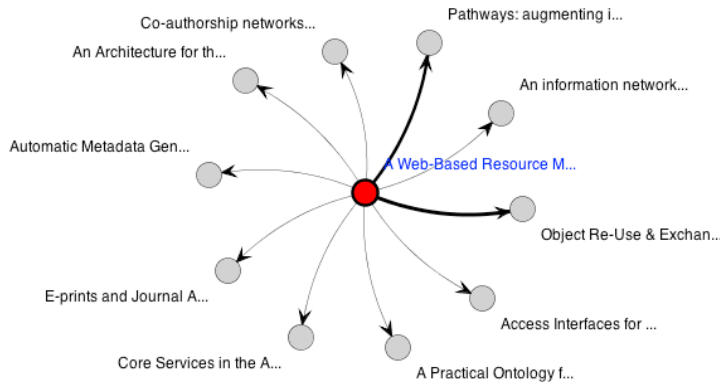
RKBEplorer » Publications » A Web-Based Resource Model for eScience: Object Reuse & Exchange

Search... Search

- about
- help
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- system requirements
- data sources
- acknowledgements



Related publications



Details

Title:
A Web-Based Resource Model for eScience: Object Reuse & Exchange

Author:
[Herbert Van de Sompel](#)
[Simeon Warner](#)
[Michael Nelson](#)
[Pete Johnston](#)
[Robert Sanderson](#)
[Carl Lagoze](#)

Web Address:
<http://arxiv.org/abs/0811.0573>

Journal:

Volume:
abs/0811.0573

<http://www.ektos.org/ontology/dataset/>

People

- [Carl Lagoze](#)
- [Herbert Van de Sompel](#)
- [Michael Nelson](#)
- [Pete Johnston](#)
- [Robert Sanderson](#)
- [Simeon Warner](#)

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Organisations

- [Cornell University](#)

Publications

- [Object Re-Use & Exchange: A Resource-Centric Approach](#)
- [Pathways: augmenting interoperability across scholarly repositories.](#)
- [A Practical Ontology for the Large-Scale Modeling of Scholarly Artifacts and their Usage](#)
- [Access Interfaces for Open Archival Information Systems based on the OAI-PMH and the OpenURL Framework for Context-Sensitive Services](#)
- [An Architecture for the Aggregation and Analysis of Scholarly Usage Data](#)

Research Areas

No results found

Or a Couple of People

RKBExplorer » People » Carl Lagoze

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Related people

Dean Eckstrom, David Millman, Christopher Ingram, William Arms, John Saylor, Simeon Warner, Dean Krafft, Donna Bergmark, Tim Cornwell, Diane Hillmann, Richard Marisa, Carol Terrizzi, Jane Hunter

Details

Full Name: [Carl Lagoze](#)

Email Address: lagoze@cs.cornell.edu

Raw Linked Data:
[Resolvable URI](#)
[All Known Co-reference Data](#)

View in external viewer:
[Zitgist Data Viewer](#)
[OpenLink Data Explorer](#)
[Tabulator \(Firefox only\)](#)

People

- [Herbert Van de Sompel](#)
- [Dean Krafft](#)
- [Donna Bergmark](#)
- [James R. Davis](#)
- [John Saylor](#)
- [Pavel Dmitriev](#)
- [Simeon Warner](#)
- [Carol Terrizzi](#)
- [Diane Hillmann](#)
- [Jane Hunter](#)

Research Areas

- [H.3.7. Digital Libraries](#)
- [H.3.5. Online Information Services](#)
- [H.3.3. Information Search and Retrieval](#)
- [H.3.4. Systems and Software](#)
- [H.3.6. Library Automation](#)
- [H.5.3. Group and Organization Interfaces](#)
- [I.7. DOCUMENT AND TEXT PROCESSING](#)
- [C.2.1. Network Architecture and Design](#)

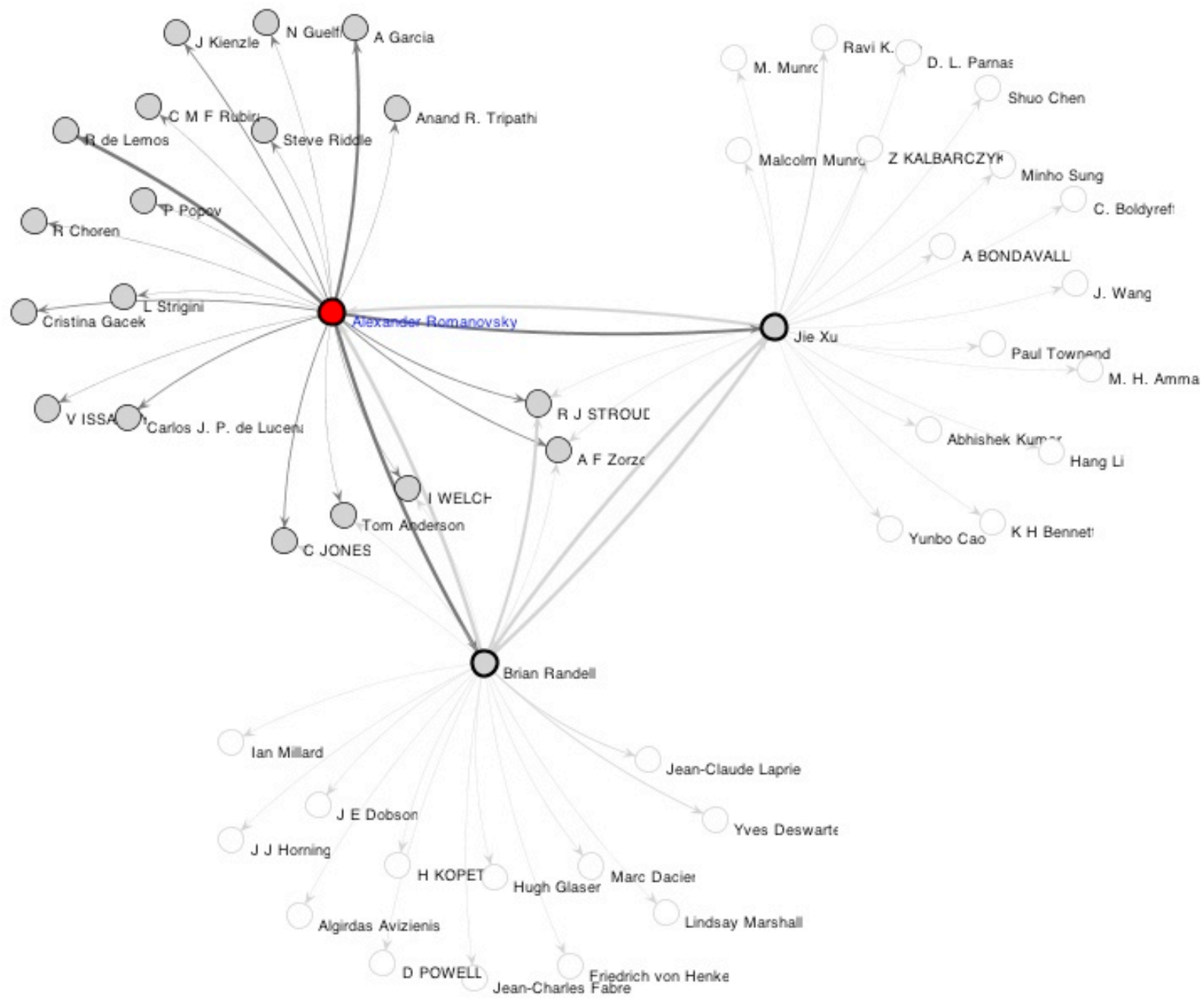
Publications

- [The oreChem Project: Integrating Chemistry Scholarship with the Semantic Web](#)
- [A Web-Based Resource Model for eScience: Object Reuse & Exchange](#)
- [Object Re-Use & Exchange: A Resource-Centric Approach](#)
- [Detecting research topics via the correlation between graphs and texts.](#)
- [The OAI-ORE effort: progress, challenges, synergies.](#)
- [Augmenting interoperability across scholarly repositories.](#)
- [Automatically Constructing](#)

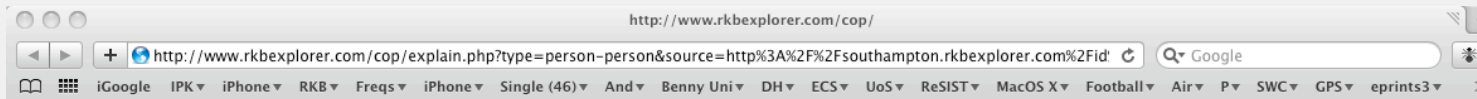
Projects

- [DLI-2: Security and Reliability in Component-based Digital Libraries](#)
- [DLI-International: Integrating and Navigating Eprint Archives through Citation-Linking](#)
- [DLI-International: Metadata for Resource Discovery of Multimedia Digital Objects](#)
- [SGER: Advancing the State of eChemistry: Workshop and Pilot Study](#)
- [Collaborative Project: Core Integration - Leading NSDL Toward Long-Term Success](#)
- [NSDL Technical Network Services: A Cyberinfrastructure Platform for STEM](#)

And how they are linked



And Why they are Linked?



www.rkbexplorer.com

Carl Lagoze is connected to Dean Krafft

They are linked by 9 relations.

Publications

They have co-authored 6 papers:

- [Core services in the architecture of the national science digital library \(NSDL\)](#)
- [An information network overlay architecture for the NSDL](#)
- [Metadata aggregation and "automated digital libraries": A retrospective on the NSDL experience](#)

[\(3 more\)](#)

Affiliations

They are both affiliated to [Cornell University](#).

Projects

They are both members of 2 projects:

- [NSDL Technical Network Services: A Cyberinfrastructure Platform for STEM Education](#)
- [Collaborative Project: Core Integration - Leading NSDL toward Long-Term Success](#)

The Need to Expose More

- **Drill down from the papers to the data**
- **And the experimental method**

- **Climategate**

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'Show Your Working': What 'ClimateGate' means



VIEWPOINT

Mike Hulme and Jerome Ravetz

The "ClimateGate" affair - the publication of e-mails and documents hacked or leaked from one of the world's leading climate research institutions - is being intensely debated on the web. But what does it imply for climate science? Here, Mike Hulme and Jerome Ravetz say it shows that we need a more concerted effort to explain and engage the public in understanding the processes and practices of science and scientists.

As the repercussions of [ClimateGate](#) reverberate around the virtual community of global citizens, we believe it is both important and urgent to reflect on what this moment is telling us about the practice of science in the 21st Century.

In particular, what is it telling us about the social status and perceived authority of scientific claims about climate change?

We argue that the evolving



“ Practising scientists know that they do not simply follow a rulebook to do their science, otherwise it could be done by a robot ”



THE GREEN ROOM

A weekly series of thought-provoking pieces on environmental topics



Decision time

It is time for national two decades of dead whale conservation

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my experiment RDF

[Submit Feedback/Bug Report](#)

RDF API

myExperiment's RDF API provides myExperiment data in RDF/XML format. Please see the [guide](#) explaining how to request RDF for myExperiment. There are also [some examples of various myExperiment entities represented in RDF/XML](#). Alternatively if you can download a dump of [all myExperiment's public RDF data](#).

Some of myExperiment's data is private and is protected using HTTP authentication. If you request a URI that is private then you will need to provide your myExperiment username and password to prove you have permission to retrieve this RDF. To save time you can "log in" using the login form to the right. This will save you having to provide your credentials for each URI. It will also allow you to make requests for RDF for all entities of a certain type that you have permission to see.

Login

Username:

Password:

Ontology

The structure of myExperiment RDF is defined by a [ontology modules](#) that can be assembled to build the complete [myExperiment Ontology](#). This is a set of modules that borrows classes/properties from FOAF, SIOC, Dublin Core, Creative Commons and OAI-ORE, that can be assembled to build a comprehensive specification for the myExperiment data model. [An autogenerated specification document](#) for the ontology is also [available](#). A [ChangeLog](#) is also maintained for the ontology.

SPARQL Endpoint

All myExperiment's public RDF data can be queried using the query language SPARQL at [myExperiment's SPARQL Endpoint](#). There is also [a guide of how to use the endpoint and write SPARQL queries](#) with real executable examples.

OAI-ORE Export

myExperiment Packs and Experiments can be exported as OAI-ORE Resource Maps. Like RDF export private entities can be accessed using HTTP authentication. A guide for how to export OAI-ORE Resource Maps can be found [here](#).

my experiment RDF

[Submit Feedback/Bug Report](#)

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southampton.rkbexplorer.com

ulm.rkbexplorer.com

unlocode.rkbexplorer.com

wiki.rkbexplorer.com

xxx.yyy.zzz

Range from a few 100 to more than 10,000,000 “facts”



Co-Reference

- **Repositories have people, publications, etc. from other institutions who also have records there and elsewhere**
- **And vice versa**
- **Co-Reference is a Big Problem**
 - Everything is a URI (not title, name, number...)
 - Identifying multiple URIs for one resource
 - Rejecting incorrectly conflated resources
 - Publishing
 - Using
- **Coldstart**
 - A serious problem
 - Nothing is linked to anything
 - Not even (reliably) within most repositories

Who is Carl Lagoze?

69. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-73181b1963dd49ae65b30679a8059a9d>

70. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-7c910c21b3ea29b1e3b7223789789aee>

71. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-80eb29003c4dee74f9ceffe659b5beb>

72. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-8a161e86160a457e33d352f544cac6df>

73. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-8ef4c07fe3f48d687ea46139acff5945>

74. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-9892c3083c24cd0b2d14a7c6d4bc6249>

75. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-a19f0facbce75bb0bd1e02004e54741d>

76. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-a2571a29fada234b934bd897281a012c>

77. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-a873c80bc3fad1a742ec9a69c43d76d5>

78. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-b14ad5607812e7da3ec48ebcd0dcaf5a>

79. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-bfde8736ae5a223cd174b92018c2c9e0>

80. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-d0d56d749bae48784d627caff4a8fb0f>

81. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-d362b9a8c57896705bad3afc77a490f1>

82. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-d99d856fa04bbab93efc6dec6f033696>

83. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-e15e2df8876f4689744ca2dbd6f789f8>

84. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-e18f93e70839a5a678cecc4d5a1c4566>

85. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-e902f181e8acd30cea561432a1e48fb9>

86. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-e9694e0aafbc94016973dda540353e98>

87. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-ea4e8917907e8dc4d3d1449f61e16acd>

88. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-f40424320a43d4086b21dab23fcb0383>

89. <http://dblp.rkbexplorer.com/id/people-4d564daeac70b53cdf9484e447cf43cf-fb9c508592b981d036918f2f8675c39d>

90. <http://eprints.rkbexplorer.com/id/ecs-soton/person-4d564daeac70b53cdf9484e447cf43cf-9a06c8c478fc2c05b11f5a06e1e491c9>

91. <http://eprints.rkbexplorer.com/id/kfupm/person-4d564daeac70b53cdf9484e447cf43cf-2fa54d79a20221a302bf5d3703c20a4e>

92. <http://eprints.rkbexplorer.com/id/kfupm/person-4d564daeac70b53cdf9484e447cf43cf-795e2593beeeffe7e33dff7ddb7ffca6>

93. <http://eprints.rkbexplorer.com/id/kfupm/person-4d564daeac70b53cdf9484e447cf43cf-b629ef7043c4236f915e34e9c1869c72>

94. <http://eprints.rkbexplorer.com/id/kfupm/person-4d564daeac70b53cdf9484e447cf43cf-ba2369c86478860d6a951d7697d89f93>

95. <http://eprints.rkbexplorer.com/id/webscience/person-4d564daeac70b53cdf9484e447cf43cf-32c76ccfe53680bc8fa3e23bac21deef>

96. <http://nsf.rkbexplorer.com/id/person-011ce119da13737c5157df47e96cfaf1>

97. <http://nsf.rkbexplorer.com/id/person-1c6b47fe02bfe414b9ed45067e698a66>

98. <http://nsf.rkbexplorer.com/id/person-29e8d8c280031d52551c27915d4ac267>

99. <http://nsf.rkbexplorer.com/id/person-9ece4b4bc99071af0ad84abb0ce76fdd>

100. <http://nsf.rkbexplorer.com/id/person-abc2bb7b3d0109233a60fba1c91661c7>

101. <http://nsf.rkbexplorer.com/id/person-c679fb6eb7ce31ae1fd8e5b3a74a0097>

102. **(Canon)** <http://southampton.rkbexplorer.com/id/person-4d564daeac70b53cdf9484e447cf43cf-9a06c8c478fc2c05b11f5a06e1e491c9>



Seme4.com

Co-Reference Service (CRS)

- **CRS Subsystem**
 - Find co-references
 - Store them
 - Publish them
 - Essentially:
 - $URI_i \rightarrow \{ URI_1, \dots, URI_i, \dots, URI_n \}$
 - Recommend a “Canon”
- **Published by the Data Publisher**
 - And possibly others
- **Middleware aggregates co-references from recognised CRSes**

CRS continued

- **CRS Policies are defined by context**
 - Often one per Triplestore
 - Can be many per Triplestore for different purposes
 - May not be associated with a particular Triplestore
- **Maintenance**
 - Provenance
 - Rollback
- **Can be used to infer owl:sameAs**
- **Eg OAI CRS has**
 - 7531045 different URIs
 - in
 - 2544955 bundles

Co-Reference Closure

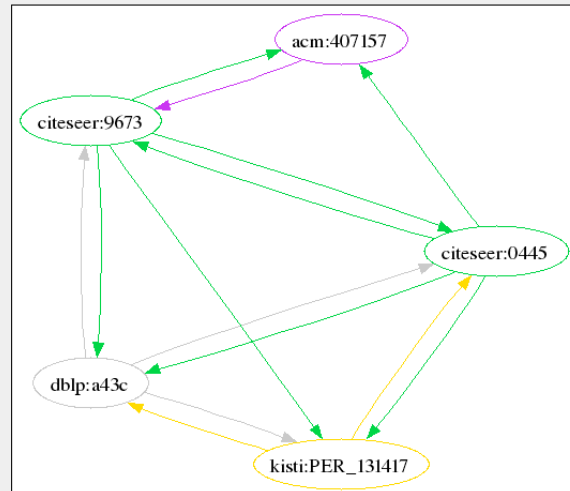
Complete Co-Reference Information

This service computes the equivalence class within the known URIs for a specified URI, by consulting all relevant CRS knowledge bases.

Equivalent URIs...

1. **(Canon)** <http://acm.rkbexplorer.com/id/person-407157>
2. <http://citeseer.rkbexplorer.com/id/resource-CSP179673>
3. <http://citeseer.rkbexplorer.com/id/resource-CSP180445>
4. <http://dblp.rkbexplorer.com/id/people-1ec5a600299222dd6374695ef5214f05-90d423eb148125a6e5c573dc5a15a43c>
5. http://kisti.rkbexplorer.com/id/PER_0000000000000131417

The following diagram shows the interconnectivity between the CRS knowledge bases which maintain the context-dependent representation of coreference for each of the RKBExplorer domains.



Seungwoo Lee

Showing information queried from all repositories ...

Showing information queried from all repositories ...

Subject	Property	Object/Value	Source
Seungwoo Lee	akt:full-name	Seungwoo Lee [Explore]	acm-periodicals.rdf >>
Seungwoo Lee	akt:full-name	Seungwoo Lee [Explore]	acm-proceedings.rdf >>
Seungwoo Lee	akt:full-name	Seungwoo Lee [Explore]	dblp-publications-2001.rdf >>
Seungwoo Lee	akt:has-affiliation	Electrical and Computer Engineering Division, Pohang University of Science & Technology (POSTECH), Pohang, South Korea.gblee@postech.ac.kr	acm-periodicals.rdf >>
Seungwoo Lee	akt:has-affiliation	POSTECH, Pohang, Korea	acm-proceedings.rdf >>
Seungwoo Lee	kisti:engNameOfPerson	Seungwoo Lee [Explore]	datatypeproperties.ttl >>
Seungwoo Lee	rdf:type	akt:Affiliated-Person	acm-periodicals.rdf >>
Seungwoo Lee	rdf:type	akt:Affiliated-Person	acm-proceedings.rdf >>
Seungwoo Lee	rdf:type	Generic Agent	acm-periodicals.rdf >>
Seungwoo Lee	rdf:type	Generic Agent	acm-proceedings.rdf >>
Seungwoo Lee	rdf:type	Generic Agent	dblp-publications-2001.rdf >>
Seungwoo Lee	rdf:type	akt:Person	acm-periodicals.rdf >>
Seungwoo Lee	rdf:type	akt:Person	acm-proceedings.rdf >>
Seungwoo Lee	rdf:type	akt:Person	dblp-publications-2001.rdf >>
Seungwoo Lee	rdf:type	PER_char(20)**	datatypeproperties.ttl >>
Seungwoo Lee	rdf:type	PER_char(20)**	objectproperties.ttl >>
Seungwoo Lee	rdf:type	PER_char(20)**	resources.ttl >>

Subject	Property	Object	Source
Automatic acquisition of named entity tagged corpus from world wide web	akt:has-author	Seungwoo Lee	acm-proceedings.rdf >>
A Corpus-Based Learning Method of Compound Noun Indexing Rules for Korean	akt:has-author	Seungwoo Lee	acm-periodicals.rdf >>
SiteQ: Engineering High Performance QA System Using Lexico-Semantic Pattern Matching and Shallow NLP.	akt:has-author	Seungwoo Lee	dblp-publications-2001.rdf >>
A Corpus-Based Learning Method of Compound Noun	akt:has-author	Seungwoo Lee	dblp-publications-2001.rdf >>




Finding Co-reference

The screenshot shows a web browser window with the URL `http://sameas.org/html?q=Les+Carr&x=24&y=22`. The page title is "Les Carr « owl:sameAs". The main heading is "<sameAs> interlinking the Web of Data". Below this, there is a text block: "The Web of Data has many equivalent URIs. This service helps you to find co-references between different data sets. Enter a known URI, or use Sindice to search first." There are two search input fields: one with the URI `http://southampton.rkbexplorer.com/` and another with the name "Les Carr". Below the search results, it says "Search results from Sindice, with co-references applied...". The first search result for "Les Carr" shows a list of URIs: 1. `http://southampton.rkbexplorer.com/id/person-00060`, 2. `http://southampton.rkbexplorer.com/id/person-98e0f2e8dd84b079a54318...f484814122`, 3. `http://southampton.rkbexplorer.com/id/person-a635f51b18c81bf1df7dab...84425e0250`, and 122. `http://kisti.rkbexplorer.com/id/PER_0000000000000081787`. The second search result for "Les Carr" shows 1. `http://dblp.l3s.de/d2r/resource/authors/Les_Carr`. At the bottom, it says "Currently serving 23268924 URIs in 8454882 bundles!". There are links for "about" and "contact", a Creative Commons BY-NC-SA license logo, and the page number "48".



The Web of Data has many equivalent URIs.
This service helps you to find co-references
between different data sets.
Enter a known URI, or use Sindice to search first.

<sameAs>



Equivalent URIs for http://dbpedia.org/resource/London –

- <sameAs> {
1. <http://dbpedia.org/resource/London>
 2. <http://dbpedia.org/resource/Leondeon>
 3. <http://dbpedia.org/resource/Lundúnir>
 4. [http://dbpedia.org/resource/London_\(UK\)](http://dbpedia.org/resource/London_(UK))
 5. [http://dbpedia.org/resource/London_\(Britain\)](http://dbpedia.org/resource/London_(Britain))
 6. [http://dbpedia.org/resource/London_\(England\)](http://dbpedia.org/resource/London_(England))
 7. [http://dbpedia.org/resource/London_\(Great_Britain\)](http://dbpedia.org/resource/London_(Great_Britain))
 8. [http://dbpedia.org/resource/London_\(United_Kingdom\)](http://dbpedia.org/resource/London_(United_Kingdom))
 9. <http://www.okkam.org/ens/id1d7d3fb0-44f8-41a1-8866-89c1458a1c66>
 10. <http://www.okkam.org/entity/oke0ab0619-e28a-438d-b53b-cdd5c8157f30>
 11. <http://os.rkbexplorer.com/id/osr7000000000041428>
 12. <http://data.ordnancesurvey.co.uk/id/7000000000041428>
 13. <http://linkedgedata.org/triplify/node/107775#id>
 14. <http://mpii.de/yago/resource/London>
 15. <http://rdf.freebase.com/ns/guid.9202a8c04000641f8000000000242b2>
 16. <http://statistics.data.gov.uk/id/eer/07>
 17. <http://statistics.data.gov.uk/id/eer?name=London>
 18. <http://sw.opencyc.org/concept/Mx4rvVjWPJwpEbGdrcN5Y29ycA>
 19. <http://sw.opencyc.org/2008/06/10/concept/en/CityOfLondonEngland>
 20. <http://sw.opencyc.org/2009/04/07/concept/en/CityOfLondonEngland>
 21. <http://sw.opencyc.org/2008/06/10/concept/Mx4rvVjWPJwpEbGdrcN5Y29ycA>
 22. <http://sw.opencyc.org/2009/04/07/concept/Mx4rvVjWPJwpEbGdrcN5Y29ycA>
 23. <http://sws.geonames.org/2643743/>
 24. <http://telegraphis.net/data/capitals/GB/London#London>
 25. <http://umbel.org/umbel/ne/wikipedia/London>
 26. <http://www.ontologyportal.org/SUMO.owl#LondonUnitedKingdom>

Other Subsystems

- **All fit into a Linked data framework**

This is a page that gives a simple demonstration showing papers which have been deemed related through textual analysis by IAI Saarbrücken. Up to the top 20 are listed for each paper, when they meet a simple thresholding:

1 – very strong – 0.9 – strongly – 0.7 – related – 0.6 – ignored – 0

The 1980 paper **Exception Handling and Software-Fault Tolerance** [[browse](#)]

is very strongly related to

- [[browse](#)] 2003 "Automatic detection and masking of non-atomic exception handling" [PDF]
- [[browse](#)] 1989 "Formal Verification of Programs with Exceptions"
- [[browse](#)] 1983 "Programming Reliable and Robust Software in ADA"

is strongly related to

- [[browse](#)] 1998 "Improving software robustness with dependability cases" [PDF]
- [[browse](#)] 1999 "Wrapping windows NT software for robustness" [PDF]
- [[browse](#)] 1981 "Exception Handling and Error Recovery Techniques in Modular Systems - An Application to the Isaure System"
- [[browse](#)] 2003 "Deadlock resolution via exceptions for dependable Java applications" [PDF]
- [[browse](#)] 2002 "Robust software - no more excuses" [PDF]

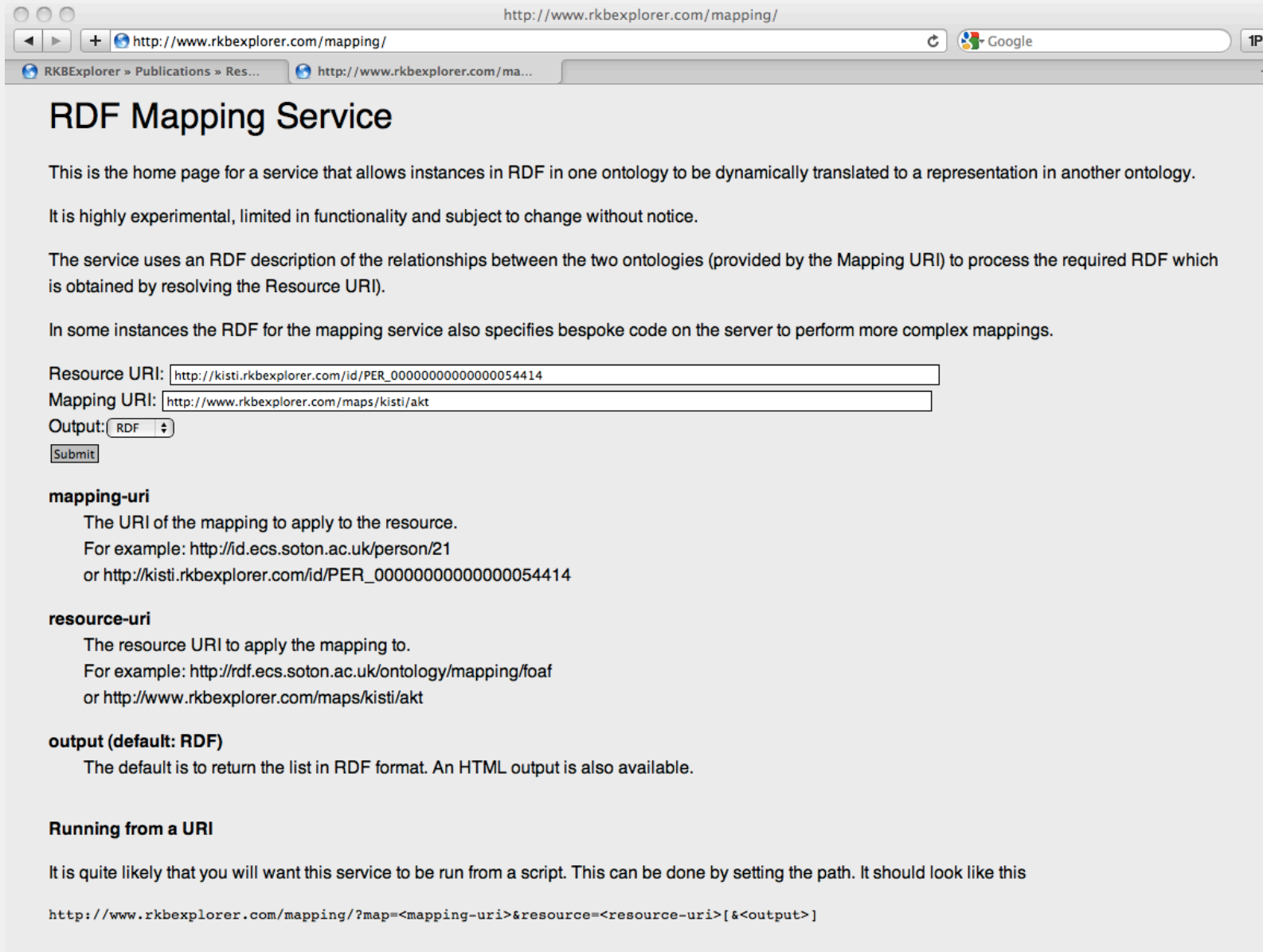
is related to

- [[browse](#)] 1995 "Fault tolerance in concurrent object-oriented software through coordinated error recovery" [PDF]
- [[browse](#)] 2004 "Implementing simple replication protocols using CORBA portable interceptors and Java serialization" [PDF]
- [[browse](#)] 1984 "Fault Tolerance Using Communicating Sequential Processes"
- [[browse](#)] 2001 "Middleware support for voting and data fusion" [PDF]

Dealing With Different Ontologies

- **The RKBExplorer application uses particular ontologies**
 - Mostly AKT Reference Ontology
 - Some KBs will use different ontologies
 - Eg kisti.rkbexplorer.com
 - Uses KISTI Research Ontology
- **One solution**
 - Represent the ontology mapping in RDF (as far as possible)
 - Resolve the URI through a mapping service to get RDF in the required ontology

On-The-Fly Translation



http://www.rkbexplorer.com/mapping/

RKBEplorer » Publications » Res... http://www.rkbexplorer.com/ma...

RDF Mapping Service

This is the home page for a service that allows instances in RDF in one ontology to be dynamically translated to a representation in another ontology.

It is highly experimental, limited in functionality and subject to change without notice.

The service uses an RDF description of the relationships between the two ontologies (provided by the Mapping URI) to process the required RDF which is obtained by resolving the Resource URI).

In some instances the RDF for the mapping service also specifies bespoke code on the server to perform more complex mappings.

Resource URI:

Mapping URI:

Output:

mapping-uri
The URI of the mapping to apply to the resource.
For example: <http://id.ecs.soton.ac.uk/person/21>
or http://kisti.rkbexplorer.com/id/PER_0000000000000054414

resource-uri
The resource URI to apply the mapping to.
For example: <http://rdf.ecs.soton.ac.uk/ontology/mapping/foaf>
or <http://www.rkbexplorer.com/maps/kisti/akt>

output (default: RDF)
The default is to return the list in RDF format. An HTML output is also available.

Running from a URI

It is quite likely that you will want this service to be run from a script. This can be done by setting the path. It should look like this

`http://www.rkbexplorer.com/mapping/?map=<mapping-uri>&resource=<resource-uri> [&<output>]`

Seme4
LINKED DATA SOLUTIONS
Seme4.com

User Interaction

- **Semantic MediaWiki**
- **Custom form interfaces**
- **Google Maps**
- **Raw Knowledge Browser**

- **RKBExplorer**
- **Why do you think that? information**



RESILIENCE FOR SURVIVABILITY IN IST KNOWLEDGE BASE

[Wiki](#)
[RKB Browser](#)
[Query RKB](#)
[Course Metadata](#)

ReSIST / Welcome

Welcome to the ReSIST Wiki, which is the internal communication mechanism for the EU funded *ReSIST "Network of Excellence"*.

Note that virtually all pages are private, and viewable only to ReSIST members who have [logged in](#).

Most content can be found by firstly browsing the main [ReSIST page](#), which details the different research areas in which activities are ongoing as part of the project.

If you have any questions or problems, please check that they have not previously been answered in the [frequently asked questions](#), before contacting [Ian Millard](#) or [Hugh Glaser](#) at Southampton.

Quick Links

[\[edit\]](#)

- [Frequently asked questions](#)
- [ReSIST project page](#)
- [Recent changes to the wiki](#)
- [Upload new file / View uploaded files](#)
- [ReSIST members / photos / locations](#)
- [Calendar of Events](#)
- [Browse](#), [query](#), or find out more about the [Resilience Knowledge Base](#)

Editing tools

- » [View Page](#)
- » [Discuss this page](#)
- » [Edit this page](#)
- » [History](#)
- » [Protect](#)
- » [Delete](#)
- » [Move](#)
- » [Watch this page](#)

Personal tools

- » [hugh glaser](#)
- » [My talk](#)
- » [Preferences](#)
- » [My watchlist](#)
- » [My contributions](#)
- » [Log out](#)

Search

Toolbox

- » [What links here](#)
- » [Related changes](#)
- » [Upload file](#)
- » [Special pages](#)



LINKED DATA SOLUTIONS



Wiki

RKB Browser

Query RKB

Course Metadata

ReSIST / Courses / Editing 'Advanced seminars on Distributed Systems'

Step 1 of 4: Information regarding the organisation of the course

(For questions, problems or feedback filling out this form, please [email us](#).)

Name of the course

Advanced seminars on Distributed Systems

Taught at

(CTRL+Click to select multiple values)

Universita degli studi di Roma, La Sapienza
Universitat ULM
Universite De Toulouse 1
Universite de Rennes 1
University of Naples
University of Toulouse III[\[Add new item\]](#)

Currently being taught

<Select Currently being taught>

Description

The course focuses on recent advances on distributed systems. A set of topic is selected and studied through the help of original papers and, practically, most known distributed system platforms are selected and analyzed.

Language(s) of the course

(CTRL+Click to select multiple values)

English
Esperanto
Estonian
Finnish
French
Gaelic

Select Author(s)

(CTRL+Click to select multiple values)

Roberto Baldoni
Roberto Beraldi
Roberto Bonato
Robin Bloomfield
Ruta Marcinkeviciene
Sadie Creese[\[Add new item\]](#)

ReSIST / Resilience-Explicit Computing Mechanisms

Name of the resilience mechanism (A title to identify your mechanism)	N-Version Programming/1/1
Submitted by (The person(s) identified here shall be the point of contact for any queries relating to data entered into this form about this mechanism)	Zoe Andrews
Author of mechanism (Click on the "add new item" link to search for, and add, authors of this mechanism. These people should have a good understanding of the mechanism and may be the same as those identified in the previous question)	Algirdas Avizienis
Associated projects (Click on the "add new item" link to search for, and add, projects that are associated with this mechanism. Possible associations include projects that: funded research on the mechanism; address similar aims; or use similar techniques)	<None>
Mechanism Objectives (Summary of the purpose of your mechanism in a sentence or two)	To utilise design diversity and voting in order to tolerate software faults
Detailed Description (Either enter a detailed description of the mechanism here, should be detailed enough for the reader to be able to re-create the mechanism, or reference a paper with such text in below)	The information here applies to the specific variant of the mechanism NVP/1/1, described in "Definition and Analysis of Hardware- and Software-Fault Tolerant Architectures". The specific variant considered, NVP/1/1, has three diverse implementations of a software module. For a more general overview of the mechanism please see "The N-Version Approach to Fault-Tolerant Software".
Detailed Description Publication (If applicable (see above), click on the "add	Definition and Analysis of Hardware- and Software-Fault-Tolerant Architectures

Editing "N-Version Programming/1/1"

Step 5 of 7: Resilience metadata - how the mechanism helps a system's resilience

(For questions, problems or feedback filling out this form, please [email us](#) )

Failure Modes

(Select the ways in which your mechanism can fail to function as intended. To help you to decide what the appropriate failure modes are you could treat your mechanism as a black box and think about the kinds of failures you expect to observe from it. The terms in this list are taken from the ReSIST ontology on security and dependability.)

(CTRL+Click to select multiple values)

- Consistent Failures
- Content And Timing Failure
- Content Failure
- Early Timing Failure
- Erratic Failure
- False Alarm

Threats Addressed



(Select the threats to resilience that your mechanism aims to address, ie the faults it aims to remove, the errors it aims to compensate for and the failures it aims to prevent. The terms in this list are taken from the ReSIST ontology on security and dependability.)


(CTRL+Click to select multiple values)

- Accidental Fault
- Budget Failure
- Catastrophic Error
- Catastrophic Failure
- Commission Fault
- Complete Development Failure

Resilience Metadata

In this question you are asked to think about the effect your mechanism has on the resilience of a system. If you were to compare your mechanism to a different mechanism addressing a similar aim, what data would you use to choose which was fit for a specific purpose? This question allows you to define such metrics and associate a value with them for your mechanism. New resilience metadata metrics and values can be added to this list by clicking on the "add new item" link. Existing metadata instances can be deleted or edited by clicking the cross or the pencil next to them respectively. Note that when you edit some metadata a new version is saved as well as the old one, which can then be deleted.)

Time-dependent probability $P(t)$ of undetected failure 
POFOD (Undetected) * application software's execution rate * t Probability 

Time-dependent probability $P(t)$ of failure POFOD * application software's execution rate * t Probability 

Time-dependent probability $P(t)$ of detected failure 

Update in Action

The image displays two side-by-side browser windows of the RKBExplorer website, illustrating a change in the 'Related people' network for Hugh Glaser.

Left Window (Before Update): Shows the 'Related people' network with Hugh Glaser at the center. The network includes Ian Millard, J M Wild, David De Roure, Nicholas Gibbins, Harith Alani, Pieter Hartel, Afraz Jaffri, Stephen Harris, and Benedicto Rodriguez. The sidebar lists 'People' (D Till, Mike Reeve, Tom Anderson, A Salhi, S Cox, Algirdas Avizienis, Chidung Lac, Les Carr, Srinandan Dasmahapatra), 'Organisations' (University of Southampton, Declarative Systems and Software Engineering, Dependable Systems and Software Engineering Research Group, School of Electronics and Computer Science), and 'Publications' (RKBExplorer, RKBExplorer.com: A Semantic Web Appli, RKBExplorer.com: A Driven Infrastructure Providers, URI Disambiguation i of Linked Data, Untangling Domain C Ontology Design Pat, Whose "Fault" Is Thi Domain Concepts in Patterns).

Right Window (After Update): Shows the same network, but now includes Les Carr in the 'People' sidebar and the network graph. The 'Research Areas' sidebar is also visible, listing Static Analysis, Computer Science, D.3.2. Language Classifications, D.0. GENERAL, D.1.1. Applicative Programming, E.1. DATA STRUCTURES, K.3.2. Computer and Information Science Education, C.1.3. Other Architecture Styles, and D.1.0. General.

Before and after inserting this paper in the Southampton ePrints repository

and RKB has noticed

Note the position of Les Carr in Hugh's related People



Supporting resilience

- People, Publication, Projects, Research Areas
- Resilience-related topics
- Resilience-Explicit Computing
- Educational Resources

- In the future
 - Automating discovery of issues and solutions
 - Design time
 - Run time

Finding mechanisms that are appropriate for Hardware and Aerospace

```
SELECT DISTINCT ?mechanismURI ?mechanismName ?metadataName ?metadataValue WHERE {  
  
  ?mechanismURI rdf:type resex:Resilience-Mechanism .  
  
  ?mechanismURI resex:applies-to-technology akt:Hardware-Platform .  
  
  ?mechanismURI resex:has-application-domain acm:J.2.0 .  
  
  ?mechanismURI rdfs:label ?mechanismName .  
  
}
```

Result	Binding	Value
1	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-267972cd
	?mechanismName	N-Self-Checking Programming/1/1
2	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-e679bd05
	?mechanismName	N-Version Programming/1/1
3	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-7425f52f
	?mechanismName	Recovery Blocks/1/1

Inspecting metadata, number of variants

```
SELECT DISTINCT ?mechanismURI ?mechanismName ?metadataName ?metadataValue WHERE {  
  
  ?mechanismURI rdf:type resex:Resilience-Mechanism .  
  
  ?mechanismURI resex:applies-to-technology akt:Hardware-Platform .  
  _____  
  ?mechanismURI resex:has-application-domain acm:J.2.0 .  
  
  ?mechanismURI rdfs:label ?mechanismName .  
  
  ?mechanismURI resex:has-resilience-metadata ?metadata .  
  
    ?metadata resex:metadata-type id:resilience-metadata-type-231c8583  
  
    ?metadata resex:metadata-type ?mt . ?mt rdfs:label ?metadataName .  
  
    ?metadata resex:has-value ?metadataValue  
  
}
```

Result	Binding	Value
1	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-7425f52f
	?mechanismName	Recovery Blocks/1/1
	?metadataName	Number of variants
	?metadataValue	2
2	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-e679bd05
	?mechanismName	N-Version Programming/1/1
	?metadataName	Number of variants
	?metadataValue	3
3	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-267972cd
	?mechanismName	N-Self-Checking Programming/1/1
	?metadataName	Number of variants
	?metadataValue	4

Inspecting metadata, average cost of implementing fault tolerant system - vs- cost of implementing non fault tolerant system

```

SELECT DISTINCT ?mechanismURI ?mechanismName ?metadataName ?metadataValue WHERE {
  ?mechanismURI rdf:type resex:Resilience-Mechanism .
  ?mechanismURI resex:applies-to-technology akt:Hardware-Platform .
  ?mechanismURI resex:has-application-domain acm:J.2.0 .
  ?mechanismURI rdfs:label ?mechanismName .
  ?mechanismURI resex:has-resilience-metadata ?metadata .
  ?metadata resex:metadata-type id:resilience-metadata-type-de1eddf9 .
  ?metadata resex:metadata-type ?mt . ?mt rdfs:label ?metadataName .
  ?metadata resex:has-value ?metadataValue
}

```

Result	Binding	Value
1	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-e679bd05
	?mechanismName	N-Version Programming/1/1
	?metadataName	Av CFT/CNFT
	?metadataValue	2.25
2	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-267972cd
	?mechanismName	N-Self-Checking Programming/1/1
	?metadataName	Av CFT/CNFT
	?metadataValue	3.01
3	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-7425f52f
	?mechanismName	Recovery Blocks/1/1
	?metadataName	Av CFT/CNFT
	?metadataValue	1.75

Comparison of the operational overheads in determining a fault has occurred

```

SELECT DISTINCT ?mechanismURI ?mechanismName ?metadataName ?metadataValue WHERE {
  ?mechanismURI rdf:type resex:Resilience-Mechanism .
  ?mechanismURI resex:applies-to-technology akt:Hardware-Platform .
  ?mechanismURI resex:has-application-domain acm:J.2.0 .
  ?mechanismURI rdfs:label ?mechanismName .
  ?mechanismURI resex:has-resilience-metadata ?metadata .
  ?metadata resex:metadata-type id:resilience-metadata-type-3443934c .
  ?metadata resex:metadata-type ?mt . ?mt rdfs:label ?metadataName .
  ?metadata resex:has-value ?metadataValue
}

```

Result	Binding	Value
1	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-7425f52f
	?mechanismName	Recovery Blocks/1/1
	?metadataName	Errors op time overheads
	?metadataValue	One variant and acceptance test execution
2	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-267972cd
	?mechanismName	N-Self-Checking Programming/1/1
	?metadataName	Errors op time overheads
	?metadataValue	Possible result switching
3	?mechanismURI	http://resex.rkbexplorer.com/id/resilience-mechanism-e679bd05
	?mechanismName	N-Version Programming/1/1
	?metadataName	Errors op time overheads
	?metadataValue	Usually negligible


Open System

- **RKBExplorer is only one interface**
 - And not a required part
- **Services:**
 - Details for a paper (the right hand pane in RKBExplorer):
 - <http://www.rkbexplorer.com/detail/?uri=http://southampton.rkbexplorer.com/id/eprints-12614>
 - Network of people for a publication (lower pane):
 - <http://www.rkbexplorer.com/network/?uri=http://southampton.rkbexplorer.com/id/eprints-12614&type=publication-person>
 - ...
- **Services**
 - <http://www.rkbexplorer.com/services/>
- **Other Interfaces (using the services)**
 - Personal Web pages
 - iPhone
 - iGoogle Gadget

http://www.rkbexplorer.com/services/

News WRPMO Single (24) And same as sameas Furniture iPhone ECS UoS DH ReSIST MacOS X Football RKB ENT iPhone App

http://www.rkbexplorer.com/ser...



www.rkbexplorer.com

[contact](#)

This page gives convenient access to various useful links and demonstrations associated with RKBExplorer. It is primarily for the use of project members and collaborators, and not intended as a general entry point for other people. It exposes many of the services of the RKB system in RESTful-style manners. One day I will find the time to make a better page, with documentation.

If you are interested in something here and want to explore using it, please contact [Hugh Glaser](#) or [Ian Millard](#).

RKB Explorer application
[ReSIST project, Jean-Claude Laprie, ALRL Paper](#)

iGoogle Gadgets of the RKB Panels
[\[Main Page\]](#)

Complete Co-Reference Information
[\[Main Page\]](#),
or try: [Nigel Shadbolt](#), [Hugh Glaser](#), [Brian Randell](#), [Jean-Claude Laprie](#), [Seungwoo Lee](#)

Ontology Mapping
[\[Main Page\]](#),
or try: [KISTI -> AKT \(RDF, html\)](#);

Networks (Communities of Practice)
[\[Find the Network of a URI\]](#),
or try: [Hugh Glaser](#), [The Semantic Web Revisited](#), [Tim Berners-Lee](#)

Detail Information
[\[Find Information about a URI\]](#),
or try: [Hugh Glaser](#), [The Semantic Web Revisited](#), [Tim Berners-Lee](#)

Why? - Why are two Things Related?
[\[Main Page\]](#),



Google Search I'm Feeling Lucky

Advanced Search Search Preferences Language Tools

New! Add social gadgets to post updates and play games with friends.

Change theme from Classic | Add stuff

- Home
 - Weather
 - Gmail
 - My Gadgets
 - BBC News | News F...
 - Slashdot
 - Search YouTube
 - RKBGadget » People
 - RKBGadget » Project
 - Google Translate

RKBGadgets

- Updates
- Friends

Chat

Search, add, or invite

Hugh Glaser Set status here

Chat with friends in undefined!

Rather stay offline? Sign out of chat.

- Christopher Gutte new splashurl.net
- Valanto Kousetti
- Andrew Landells
- Joyce Lewis

Options Add friends

Google Translate

Enter text to translate here

Detect langu English Translate

[Translate Homepage](#) | [Dictionary Homepage](#)

RKBGadget » People

Berners-Lee

Search Reset

Found 3 results for "Berners-Lee"

[M Berners-Lee](#) [Mary Lee Berners-Lee](#) [Lee](#) [Tim Berners-Lee](#)

Tim Berners-Lee

Full Name: [Tim Berners-Lee](#)

Email Address: timbl@w3.org

Web Address: http://en.wikipedia.org/wiki/Tim_Berners-Lee

My Gadgets

Gadget dictionary.xml Inlined Cached

person.xml

RKBGadget » Project

Search Reset

KNOWLEDGE WEB

Title: Realizing the semantic web

Other Names: KNOWLEDGE WEB

Project Overview: The current World Wide Web (WWW) is, by its function, the syntactic web where structure of the content has been presented while the content itself is inaccessible to computers. The next generation of the Web (the Semantic Web) aims to alleviate such problem and provide specific solutions targeted the

BBC News | News Front Page | World Edition

- Afghan poll media blackout urged
- US Colombia deal 'not a threat'
- Sony cuts price of PS3 consoles
- Honduras expels Argentine envoys
- US journalist Robert Novak dies
- Turnaround 'will not be simple'
- Russia detains ship 'hijackers'
- New Israeli settlements 'on hold'
- Jackson to be buried on birthday

Weather

Southampton, England

13°C Current: Clear Wind: SE at 3 km/h Humidity: 94%

Tue Wed Thu Fri

21° | 13° 24° | 16° 20° | 11° 18° | 9°

Search YouTube

YouTube

Best Silverlight Apps
Zingals uses Silverlight apps to enhance user experience. READ
Ads by Google

Confucius Quotes **Zytu**

Gmail

MyExperiment



Location of Project Members



Details

Names:
MyExperiment

Starts:
01/03/2007

Ends:
31/03/2009

Web Address:
<http://www.myexperiment.org/>

Description:
The myExperiment Virtual Research Environment enables you and your research

Project Members

- [Carole Goble](#) ?
- [Darius Michaelides](#) ?
- [David De Roure](#) ?
- [Frederique VanTill](#) ?

Participating Organisations

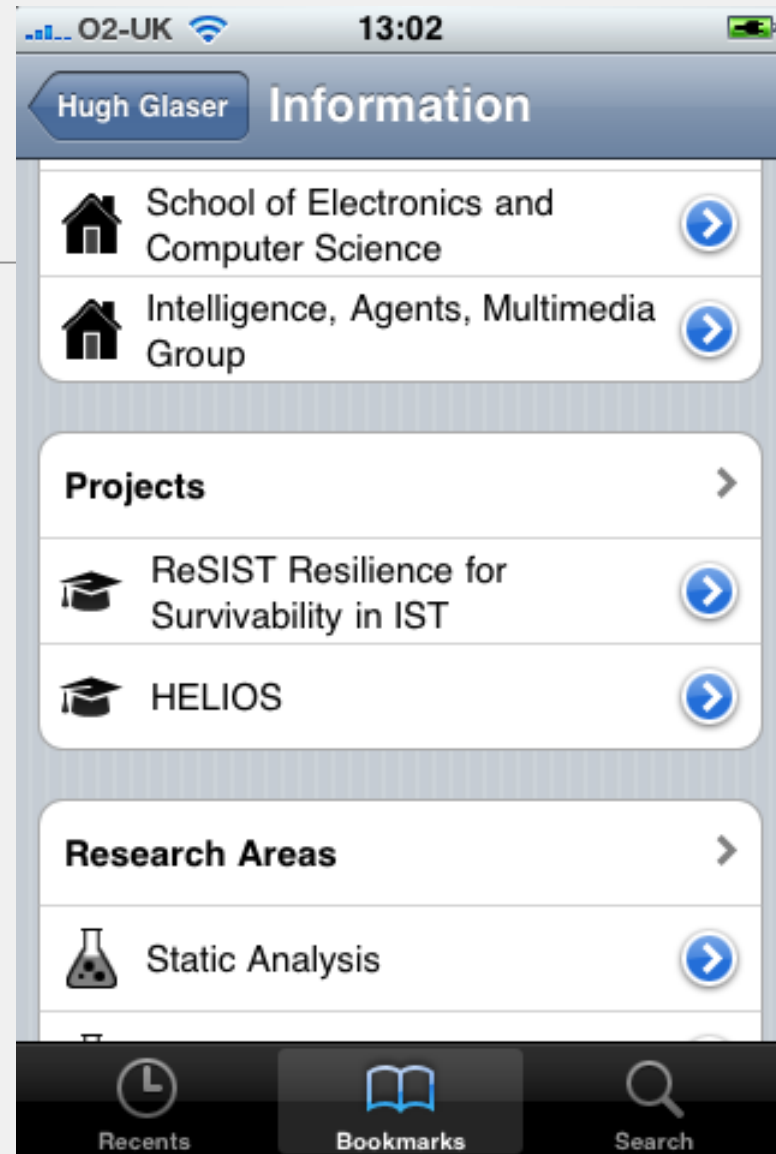
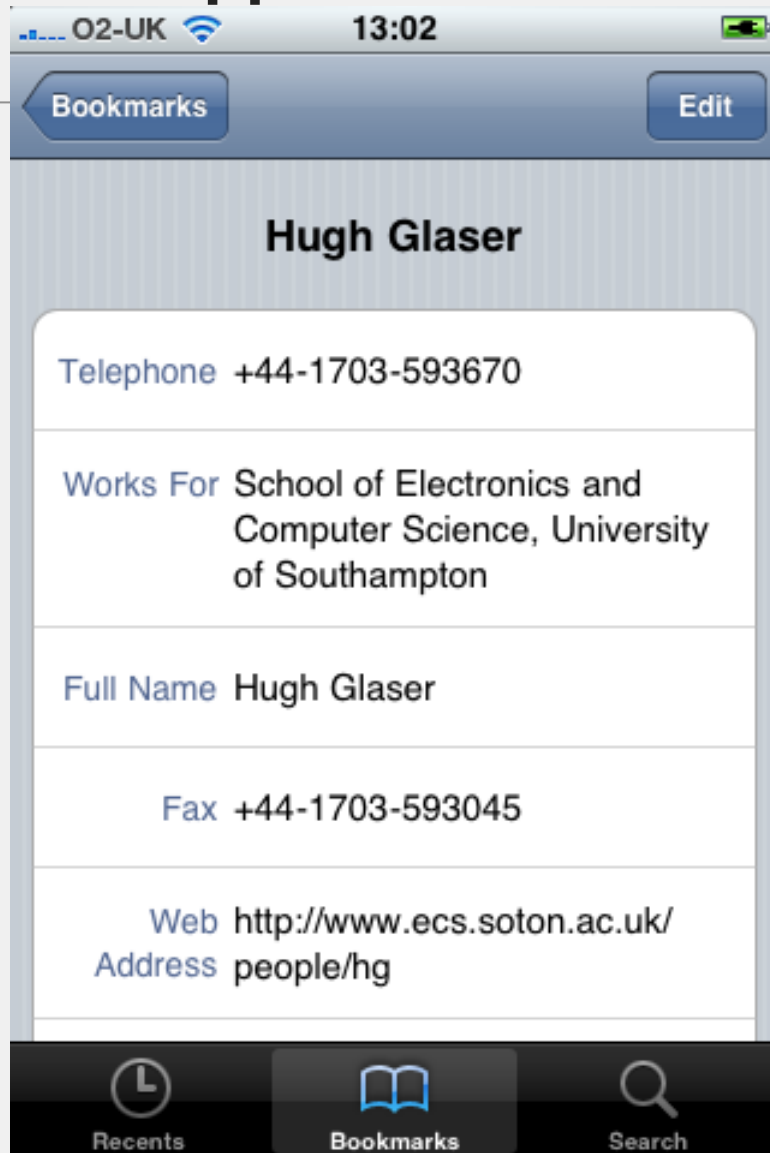
- [University of Southampton](#) ?

Related JISC Projects

- [Meeting Memory Technology Informing Collaboration](#) ?
- [myExperiment Repository Enhancement](#) ?
- [Collaborative Orthopaedic Research Environment](#) ?
- [Internet-Based Behavioural Research](#) ?
- [Virtual Research Integration Collaboration](#) ?
- [Building Research and Innovation Networks](#) ?

Publications

iPhone App



Semantic Web is not “All or Nothing”

UNIVERSITY OF
Southampton
School of Electronics
and Computer Science

Search Enter keywords here

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[Alumni](#) [Contact](#) [Intranet](#)



[University of Southampton](#) > [ECS](#) > [People](#) > [Hugh Glaser](#)

Hugh Glaser

- [Contact](#)
- [Research and Projects](#)
- [Publications](#)
- [Homepage](#)

Search People

Enter a name here

Hugh Glaser
School of Electronics and Computer
Science
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Southampton
SO17 1BJ
United Kingdom

Position: Visiting academic staff in
[Intelligence, Agents, Multimedia Group](#)
Fax: +44 (0)23 8059 3045
Email: hg@ecs.soton.ac.uk
URI: <http://id.ecs.soton.ac.uk/person/21>
[[browse](#)]

Interests: [genetic algorithms](#), [ontology maintenance](#), [semantic grid](#), [semantic squirrels](#), [semantic web](#), [semantic wiki](#), [service composition](#), [ubiquitous computing](#), [web 2.0](#)


The group secretary for the Intelligence, Agents, Multimedia Group is [Jane Morgan](#).

Additional Contact Details

[I may be here](#)

Duties

ECS - Staff Training Budget
ECS - Travel Budget
Staff Teaching allocation (with Mark Zwolinski)



Hugh Glaser

Hugh works with:

- [Dr Ian Millard](#) ([explain](#))
- [Afraz O Jaffri](#) ([explain](#))
- [Professor Nigel B Shadbolt](#) ([explain](#))
- [Dr Nicholas Gibbins](#) ([explain](#))
- [Bene Rodriguez-Castro](#) ([explain](#))
- [Professor David C De Roure](#) ([explain](#))
- [dr_monica_mc_schraefel](#) ([explain](#))
- [Dr Harish Alani](#) ([explain](#))

This list of people is sourced from [RKBExplorer](#), the result of an ECS project. Click on the "explain" link to the right of each person to find out how they are connected.
Note: the explain link requires heavy processing and may take some time to load.

Tel: +44 (0)23 8059 6000 | [Contact ECS](#) | [Intranet](#) | © [University of Southampton](#)

Concluding Remarks

- **Linked Data works for integration**
- **Much added value**
- **Repositories are a rich source of metadata**
- **Need to support the entire research life-cycle**
- **Linked Data works pretty well**
- **RDF works pretty well**
- **A little Ontology goes a long way**
- **Please don't stop at the repository**
- **Drill down to the science**
- **Go on and get the added value of Linked Data**
- **Worry about your co-reference**
 - Do you have IDs in your repository?
 - Can you reliably identify all the papers of a single person?

University of Southampton

- **Since 1862 (Hartley Institution)**
- **Multi-discipline University**
 - Arts, Science, Law, Medicine, Engineering, ...
- **25,000 Students**
- **5,000 Staff**
- **“Russell Group”**



ECS

- **100+ Faculty**
- **1000+ Students (300 Graduate)**
- **Highly-rated**
 - Teaching and Research



Research Groups

- **Communication**
- **Dependable Systems & Software Engineering**
- **Electrical Power Engineering**
- **Electronic Systems & Devices**
- **Information: Signals, Images, Systems**
- **Intelligence, Agents, Multimedia**
- **Learning Societies Lab**
- **Nano**
- **Optoelectronics Research Centre**
- **Pervasive Systems Centre**
- **Science & Engineering of Natural Systems**