

RKB, sameAs and dotAC

at

“2009: Beyond the Repository Fringe”

Edinburgh
30-31 July 2009

Hugh Glaser & Ian Millard



<sameAs>
interlinking the Web of Data



Linked Data

- Tim Berners-Lee

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.

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



Design Issues - Linked Data

Tim Berners-Lee

Date: 2006-07-27, last change: \$Date: 2007/05/02 14:30:56 \$

Status: personal view only. Editing status: imperfect but published.

- <http://www.w3.org/DesignIssues/LinkedData.html>
- Use URIs as names for things
- Use HTTP URIs so that people can look up those names.
- When someone looks up a URI, provide useful information.
- Include links to other URIs. so that they can discover more things.

RDF

- `<subject-uri> <predicate-uri> <object-uri>`

or

- `<subject-uri> <predicate-uri> "String"`

- Eg

`@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .`

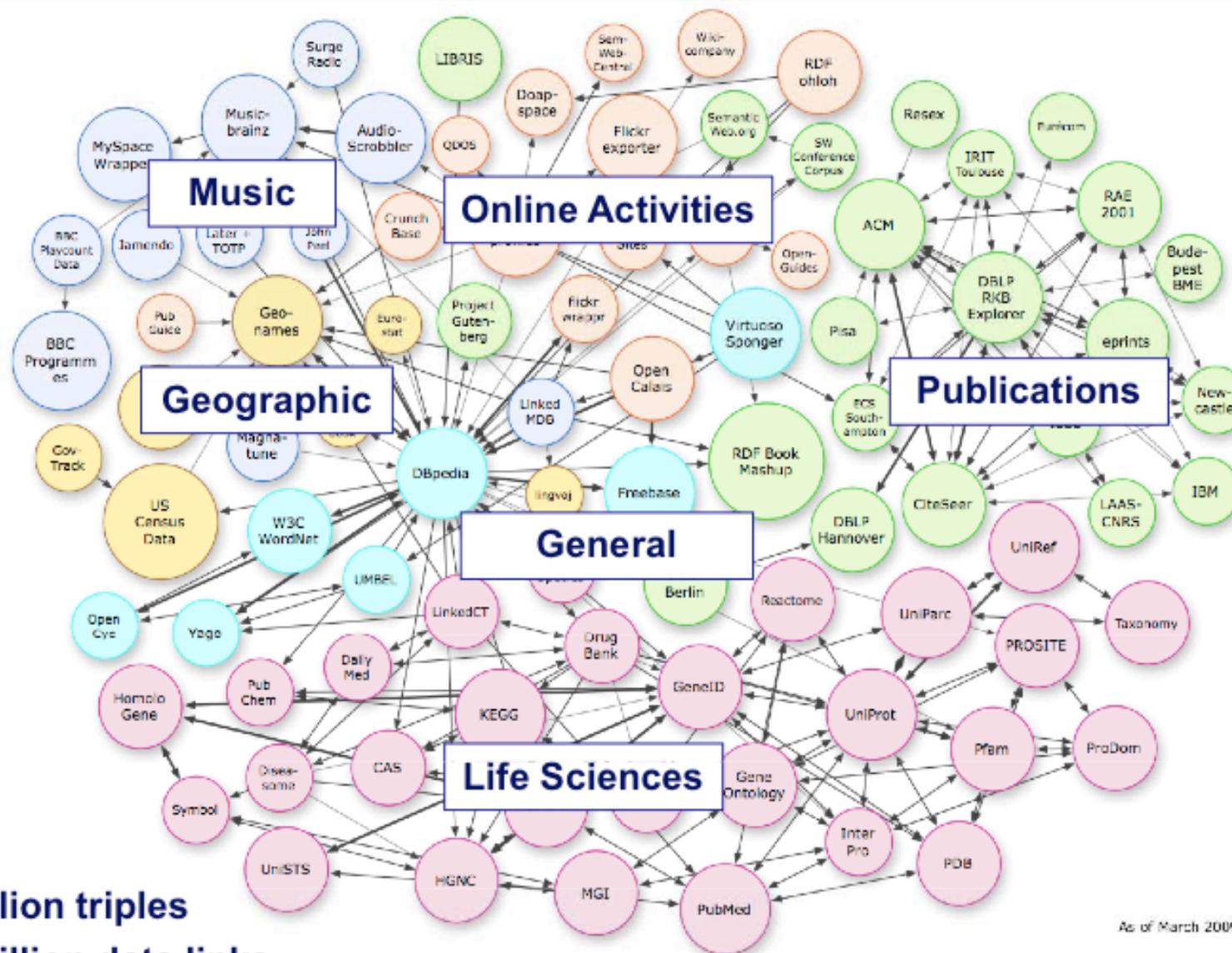
`@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .`

`<http://resex.rkbexplorer.com/id/resilience-concept-de7f20d5> rdf:type <http://resex.rkbexplorer.com/ontologies/resex#Resilience-Concept> .`

`<http://resex.rkbexplorer.com/id/resilience-concept-de7f20d5> rdfs:label "UML model" .`

`<http://resex.rkbexplorer.com/id/resilience-concept-de7f20d5> <http://resex.rkbexplorer.com/ontologies/resex#has-description> "The UML modeling language describes the system architecture and behaviour in a standard way." .`

LOD Datasets on the Web: March 2009



4.5 billion triples
180 million data links

As of March 2009

Knowledge-Enabled Research Support: RKBExplorer.com
 Ian Millard & Hugh Glaser, {icm,hg}@ecs.soton.ac.uk

UNIVERSITY OF Southampton

School of Electronics and Computer Science

Faceted Browser

Alexander Romanovsky is related to R de Lemos

They are linked by 33 relations.

Publications: They have co-authored 32 papers:

- Coordinated Atomic Actions in Modeling Objects Cooperation
- Exception Handling in a Cooperative Object-Oriented Approach
- Integrating COTS Software Components into Dependable Software Architectures

Affiliations: They are both affiliated to NEWCASTLE UNIVERSITY.

Fresnel renderer

Mesh-up

Universidade de Lisboa

People working on ReSIST in Universidade de Lisboa:

- Paulo CARVALHO @ ...
- Paulo VARELA @ ...
- Paulo SOUSA @ ...

Research Projects:

- Resistant to availability in IoT: The development of a process integration baseline for highly efficient quality testing of industrial facilities
- QUALITY AND ON-LINE CONFIDENCE IN SaaS E-BUSINESS PROCESSES: Recently selected Publications: Towards a Cooperating Autonomous Car...

Why?

Community of Practice Analyser

Machine Learning

Semantic MediaWiki

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.

NLP

Manual classification of IEEE DSN papers

Abstracts: The Root Causes of Non-Uniformity in Self-Protection

Self-protecting malware like worms and bots can dramatically impact the availability and reliability of the Internet. Malware for the observation and propagation of Internet worms using common programming and control constructs has been used to cause different points around the Internet.

Data Entry

Manual classification of IEEE DSN papers

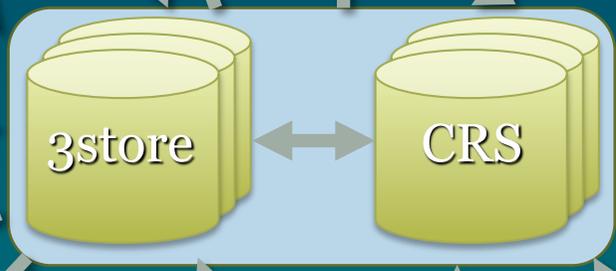
Step 1 of 4: Information regarding the organisation of the course

Name of the course: Introduction to the Design of Embedded Systems

Taught at: University of York, University of Hull, University of Lincoln, University of Northumbria, University of Teesside

Currently being taught: Introduction to the Design of Embedded Systems

Description: This course focuses on recent advances in embedded systems. A set of basic hardware and software design techniques for the design of embedded systems will be presented. The most recent embedded system platforms are presented and analysed.



Coreference Analysis

Offline Conversion & Versioning

Ontology Mapping Service

Ontologies

SPARQL

acm.rkbexplorer.com

browse query cts

SPARQL Query Interface

This interface permits queries to be

Result format: **HTML Table**

Query:

```
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
PREFIX rdfs: <http://www.w3.org/2000/01/rdf-schema#>
PREFIX akt: <http://www.aktors.org/ontology#>
PREFIX akts: <http://www.aktors.org/ontology#>
SELECT * WHERE { ?s ?p ?string }
```

Yannis Kalligou

Identifiers for "Yannis Kalligou" in acm.rkbexplorer.com ...

Other identifiers known by acm.rkbexplorer.com in external repositories:

- http://dbpedia.org/resource/Category:CS:153333
- http://dbpedia.org/resource/Category:CS:153333
- http://dbpedia.org/resource/Category:CS:153333
- http://dbpedia.org/resource/Category:CS:153333

Full co-reference information

View in CSV

Subject	Property	Object	Source
Yannis Kalligou	akt:foaf:name	Yannis Kalligou (English)	act:periodicals:of ...
Yannis Kalligou	akt:foaf:name	Yannis Kalligou (English)	act:periodicals:of ...
Yannis Kalligou	akt:foaf:homepage	http://www.rkbexplorer.com	act:periodicals:of ...
Yannis Kalligou	akt:foaf:homepage	http://www.rkbexplorer.com	act:periodicals:of ...
Yannis Kalligou	akt:foaf:homepage	http://www.rkbexplorer.com	act:periodicals:of ...
Yannis Kalligou	akt:foaf:homepage	http://www.rkbexplorer.com	act:periodicals:of ...
Yannis Kalligou	akt:foaf:homepage	http://www.rkbexplorer.com	act:periodicals:of ...
Yannis Kalligou	akt:foaf:homepage	http://www.rkbexplorer.com	act:periodicals:of ...
Yannis Kalligou	akt:foaf:homepage	http://www.rkbexplorer.com	act:periodicals:of ...
Yannis Kalligou	akt:foaf:homepage	http://www.rkbexplorer.com	act:periodicals:of ...

Linked Data

Resolving URIs
 KISTI, dbpedia, etc.

CiteSeer, CORDIS, DBLP, Partners, UN LoCode, ...

We are pleased to acknowledge the help and work provided by our ReSIST Partners and many others. This work was supported by the ReSIST Network of Excellence, which is sponsored by the Information Society Technology (IST) priority under contract number IST 4 026764 NOE.

Some Underlying Sources

acm.rkbexplorer.com
budapest.rkbexplorer.com
citeseer.rkbexplorer.com
cordis.rkbexplorer.com
courseware.rkbexplorer.com
darmstadt.rkbexplorer.com
dblp.rkbexplorer.com
dbpedia.org
deepblue.rkbexplorer.com
deploy.rkbexplorer.com
epsrc.rkbexplorer.com
eurecom.rkbexplorer.com
ft.rkbexplorer.com
ibm.rkbexplorer.com
ieee.rkbexplorer.com
irit.rkbexplorer.com

italy.rkbexplorer.com
kaunas.rkbexplorer.com
kisti.rkbexplorer.com
laas.rkbexplorer.com
lisbon.rkbexplorer.com
newcastle.rkbexplorer.com
nsf.rkbexplorer.com
pisa.rkbexplorer.com
rae2001.rkbexplorer.com
resex.rkbexplorer.com
roma.rkbexplorer.com
southampton.rkbexplorer.com
ulm.rkbexplorer.com
unlocode.rkbexplorer.com
wiki.rkbexplorer.com
xxx.yyy.zzz

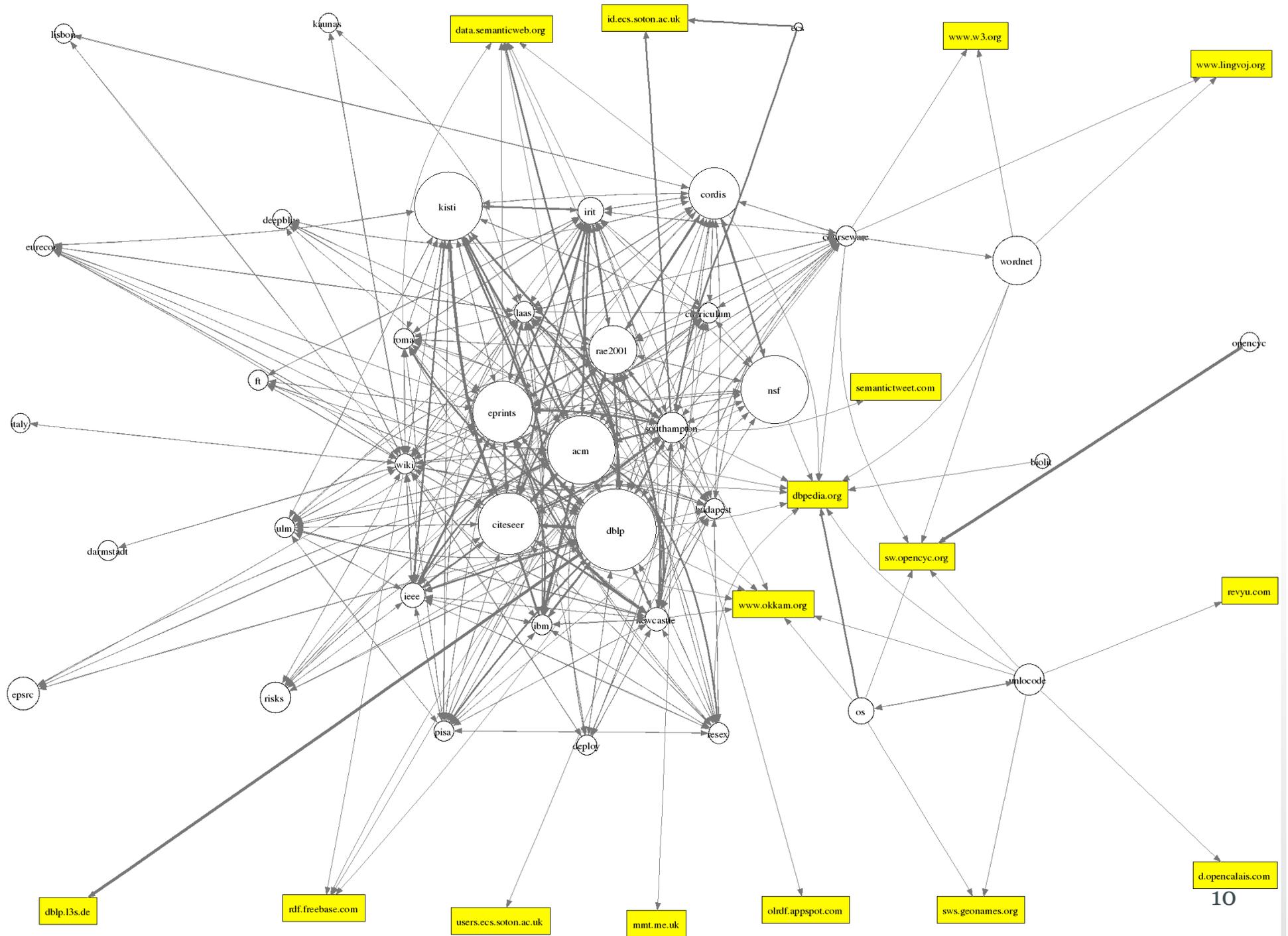
Range from a few 100 to more than 10,000,000 “facts”

Knowledge Sources

- Partners
- Publications
- Funding Agencies
- Project Wiki
- Courseware
- Resilient-Explicit Computing
- Wide range, don't just look where you expect to find

For example

- Statistics for repository kisti.rkbexplorer.com
 - Last data assertion 2008-09-18 17:16:41
 - Number of triples 12815162
 - Number of symbols 3239105
 - Size of RDF dataset 671M



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



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 CRSes¹²

CRS – Consistent Reference Service

- A service to manage and publish co-referent information
- Identify co-referent pairs using a set of tools
- Assert into the CRS
- Query the CRS
 - $URI_i \rightarrow \{ URI_1, \dots, URI_i, \dots, URI_n \}$
- Recommend a Canon

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

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>
 - ...
- Other Interfaces (using the services)
 - Personal Web pages
 - iPhone
 - iGoogle Gadget





Resilience for Survivability in IST

Maximize

21 / 20

Detail

Title:
Resilience for Survivability in IST

Other Names:
ReSIST Resilience for Survivability in IST

Funding:
4500000

Project Leader:
[Jean-Claude Laprie](#)

Leading Organisation:
Centre National de la recherche Scientifique

People

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

Research Areas

Information processing, information systems	?
Development Failure	?
Dependability And Security Analysis	?
Dependability And Security Provision	?

Publications

Revised version in Predictably dependable computing systems	?
ASSERT Automated proof based system and software engineering for real-time applications	?
Guide de la sûreté de fonctionnement	?

Projects

Malicious- and Accidental-Fault Tolerance for Internet Applications	?
The esprit network of excellence in distributed computing systems architectures	?
Design for validation	?
Network of Excellence in	?

Or a Paper

RKBExplorer » 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

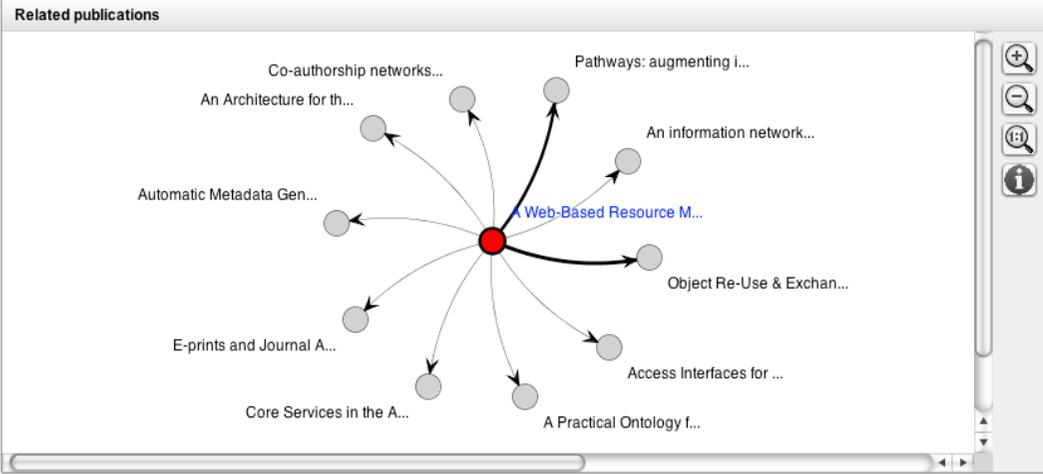
RKBExplorer » Publications » A Web-Based Resource Model for eScience: Object Reuse & Exchange

Search... Search

- about
- help
- contact
- 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.cisist.org/ontology/d4a#20>

People

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

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

Now Look at an Author

RKBExplorer » People » Carl Lagoze

Search...

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

Related people

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:
[Zitist 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 Protocols](#)

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](#)

Or a Couple of People

The screenshot displays the RKBExplorer interface for Carl Lagoze. The main area features a network graph with Carl Lagoze at the center, connected to various other individuals. To the right, a 'Details' panel provides personal information for Carl Lagoze, including his full name and email address. Below the graph, four panels offer further exploration: 'People' (listing other individuals), 'Research Areas' (listing various academic fields), 'Publications' (listing specific research papers), and 'Projects' (listing ongoing or completed projects).

Related people

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

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 Kraftt](#)
- [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?

http://www.rkbexplorer.com/cop/

http://www.rkbexplorer.com/cop/explain.php?type=person-person&source=http%3A%2F%2Fsouthampton.rkbexplorer.com%2Fid' Google

iGoogle IPK iPhone RKB Freqs iPhone Single (46) And Benny Uni DH ECS UoS ReSIST MacOS X Football Air P SWC GPS eprints3



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](#).

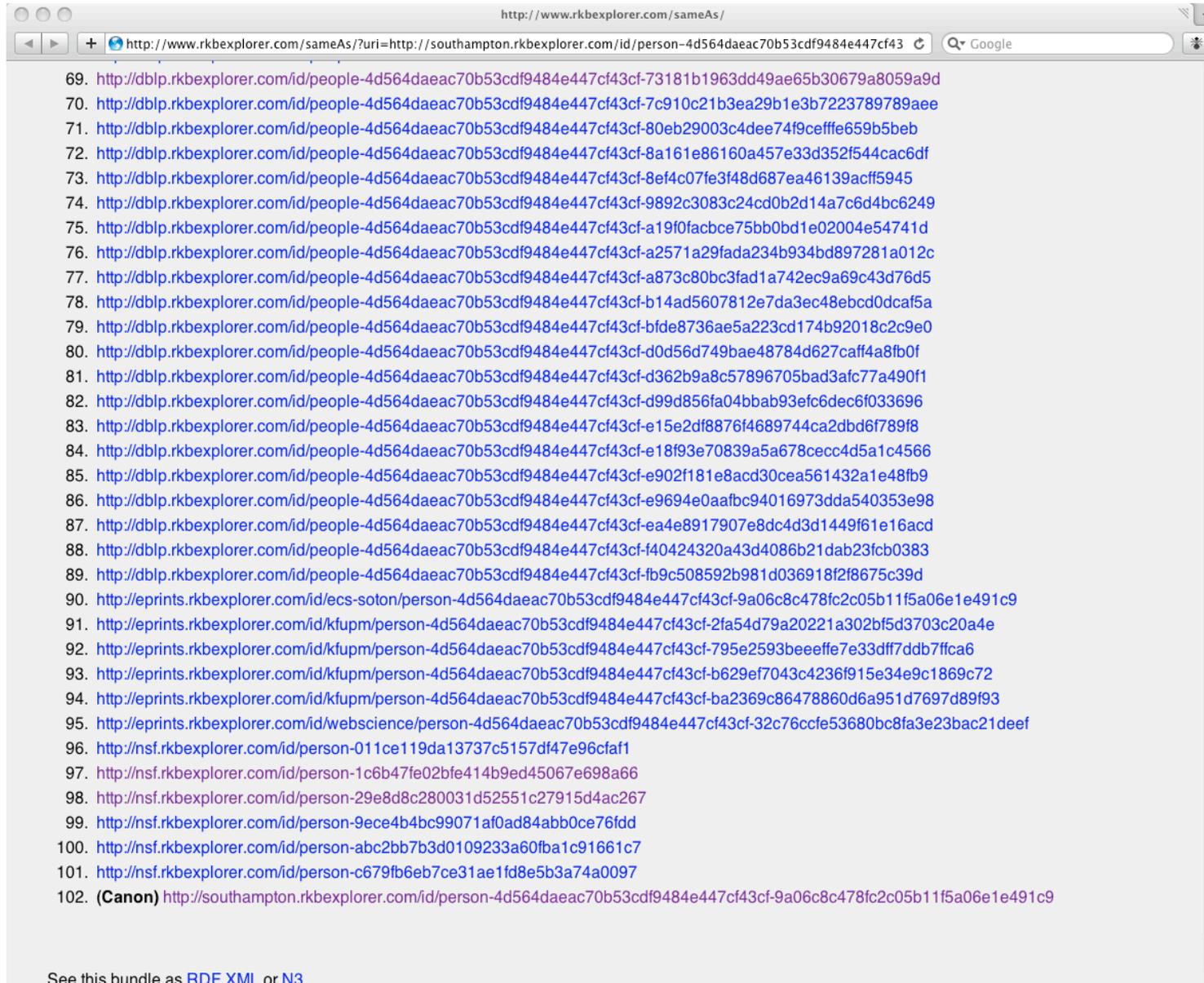
Projects

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](#)

20

Who is Carl Lagoze?



Co-Reference Closure

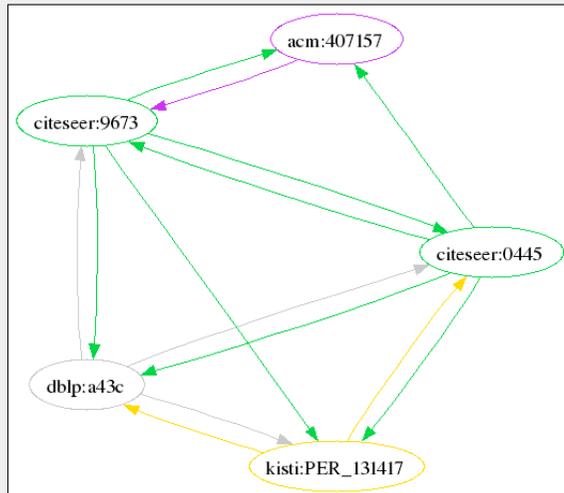
Complete Co-Reference Information

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_000000000000131417

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 Corous-Based Learning Method of Compound Noun			dblp-publications-



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 explaining the service: "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." To the right of this text are two search input fields. The first is labeled "<sameAs>" and contains the text "http://southampton.rkbexplorer.com/". The second is labeled "Sindice" and contains the text "Les Carr". Below the search fields, the text reads "Search results from [Sindice](#), with co-references applied...". There are two search results sections. The first is titled "Sindice 'Les Carr'" and 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`. A "Show 118 more" link is present. Below these is result 122: `http://kisti.rkbexplorer.com/id/PER_0000000000000081787`, with links for "rdf+xml", "n3", "json", and "text". The second search result section is also titled "Sindice 'Les Carr'" and shows result 1: `http://dblp.l3s.de/d2r/resource/authors/Les_Carr`, with links for "rdf+xml", "n3", "json", and "text". At the bottom of the page, it says "Currently serving 23268924 URIs in 8454882 bundles!". There are links for "about" and "contact", and a Creative Commons BY-NC-SA license logo.

Where is it Taught?

UNIVERSITY OF
Southampton

School of Electronics
and Computer Science

The image shows a screenshot of a web browser displaying a map of Europe. The browser's address bar shows the URL `http://resist.ecs.soton.ac.uk/gmap/resist-courses.php`. The map features several red location pins across Europe. A white popup window is overlaid on the map, centered over Budapest, Hungary. The popup contains the following text:

Budapest University of Technology and Economics

Courses taught at [Budapest University of Technology and Economics](#) , Budapest:
[Software Verification and Validation](#) [[hide](#)]
[Istvan Majzik](#)
[Management of Computing Infrastructure](#) [[show instructors...](#)]

At the bottom of the browser window, there is a link that says "Go to the ReSIST Partners Map".

Gadget – find out about people



The image shows three overlapping screenshots of the RKBExplorer application. The top-left screenshot shows a search for 'Carl Lagoze' with one result. The middle screenshot shows a search for 'Les Carr' with a list of names. The rightmost screenshot shows a detailed profile for 'Les Carr' with contact information.

RKBExplorer » Networks (Communities of Practice)

Carl Lagoze

Search Reset

Found 1 result for "Carl Lagoze"

[Carl Lagoze](#)

Carl Lagoze [↗](#)

[Display Metadata](#)

James Allan Massoud Amin Ross Anderson **William Arms** Jeroen Bekaert **Donna Bergmark** **Les Carr** **Tim Cornwell** Lorrie Cranor **James R. Davis** **Pavel Dmitriev** Naomi Dushay Doug Dyer Dea Eckstrom Adam Finkelstein J. French Stone

RKBExplorer » Networks (Communities of Practice)

Les Carr

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Les Carr [↗](#)

Full Name:
[Les Carr](#) [↗](#)

Telephone:
+44 (0)23 8059 4479

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

Web Address:
<http://www.ecs.soton.ac.uk/~lac/> [↗](#)

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

Mark Borkum did this

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]

Concluding Remarks

- ePrints today, other systems tomorrow
 - Other related technologies (such as OAI-ORE)
 - Are they right for this?
- Please don't stop at the repository
- Go on and get the added value of Linked Data
- ePrints has plans to publish RDF
 - Will the schema (ontology) be expressive enough
- Worry about your co-reference
 - Do you have IDs in your repository?
 - Can you reliably identify all the papers of a single person?



And so ...



dotAC: Exploring the UK Research Landscape

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RKBExplorer.com – Try it!

The screenshot shows the RKBExplorer.com website interface. At the top, there is a navigation bar with the 'osist' logo and links for 'people', 'research areas', 'publications', 'projects', and 'search'. A search bar is also present. The main content area features a large network diagram titled 'Resilience for Survivability in IST'. The diagram consists of a central red node connected to numerous peripheral nodes, each representing a related project or publication. A 'Maximize' button is located in the top right corner of the diagram area. To the right of the diagram is a 'Detail' panel for the selected project, which includes the title, other names, funding amount, project leader, and leading organization. Below the main content area, there are four vertical panels: 'People', 'Research Areas', 'Publications', and 'Projects', each listing related items with a question mark icon. At the bottom of the page, there is a footer with links for 'about', 'news', 'system requirements', 'acknowledgements', and 'contact'. A status bar at the very bottom indicates 'Applet eu.resist.rkb.RKBExplorer started'.

<http://eprints.ecs.soton.ac.uk/17732/>