

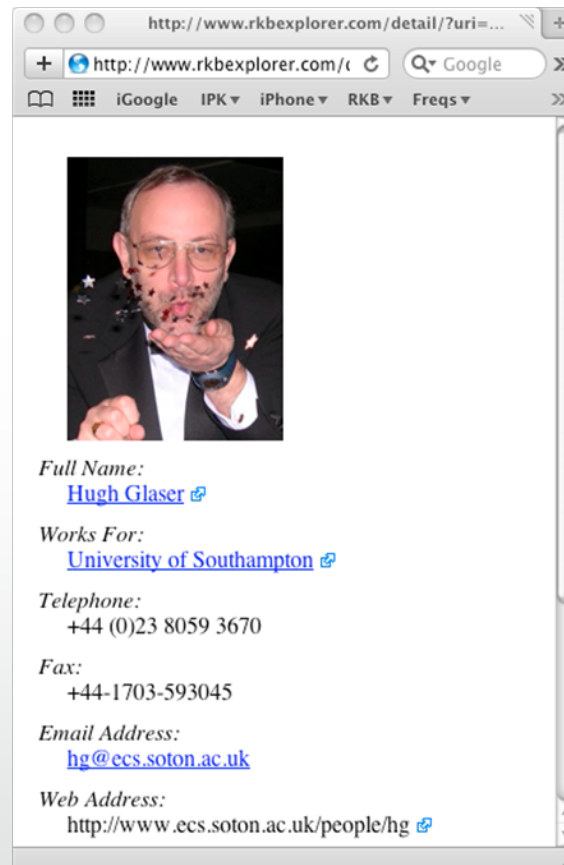
RKBExplorer: Repositories, Linked Data and Research Support

At
Eprints User Group, Open Repositories 2009

Hugh Glaser, Ian Millard & Les Carr



This is me



Background

- Rich resource of Repositories
- Other rich resources (NSF, CORDIS, ResearchIndex, Wikipedia)
- Where is the added value?



Linked Data

- Designed for just this
- “the Semantic Web done right, and the Web done right”
 - Tim Berners-Lee
- An Infrastructure for Naming things and Linking things
- OR can/should join

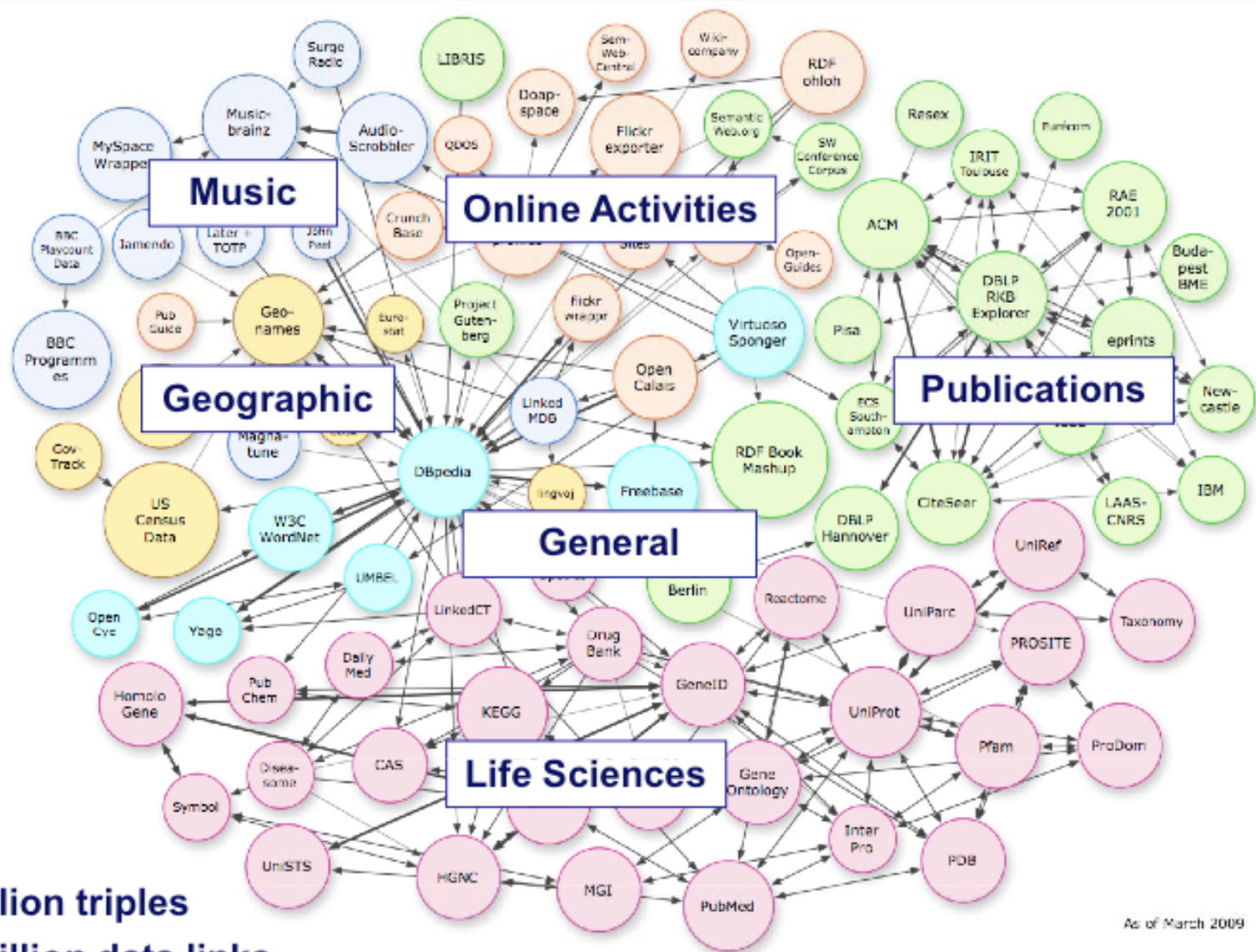


RKB and RKBExplorer

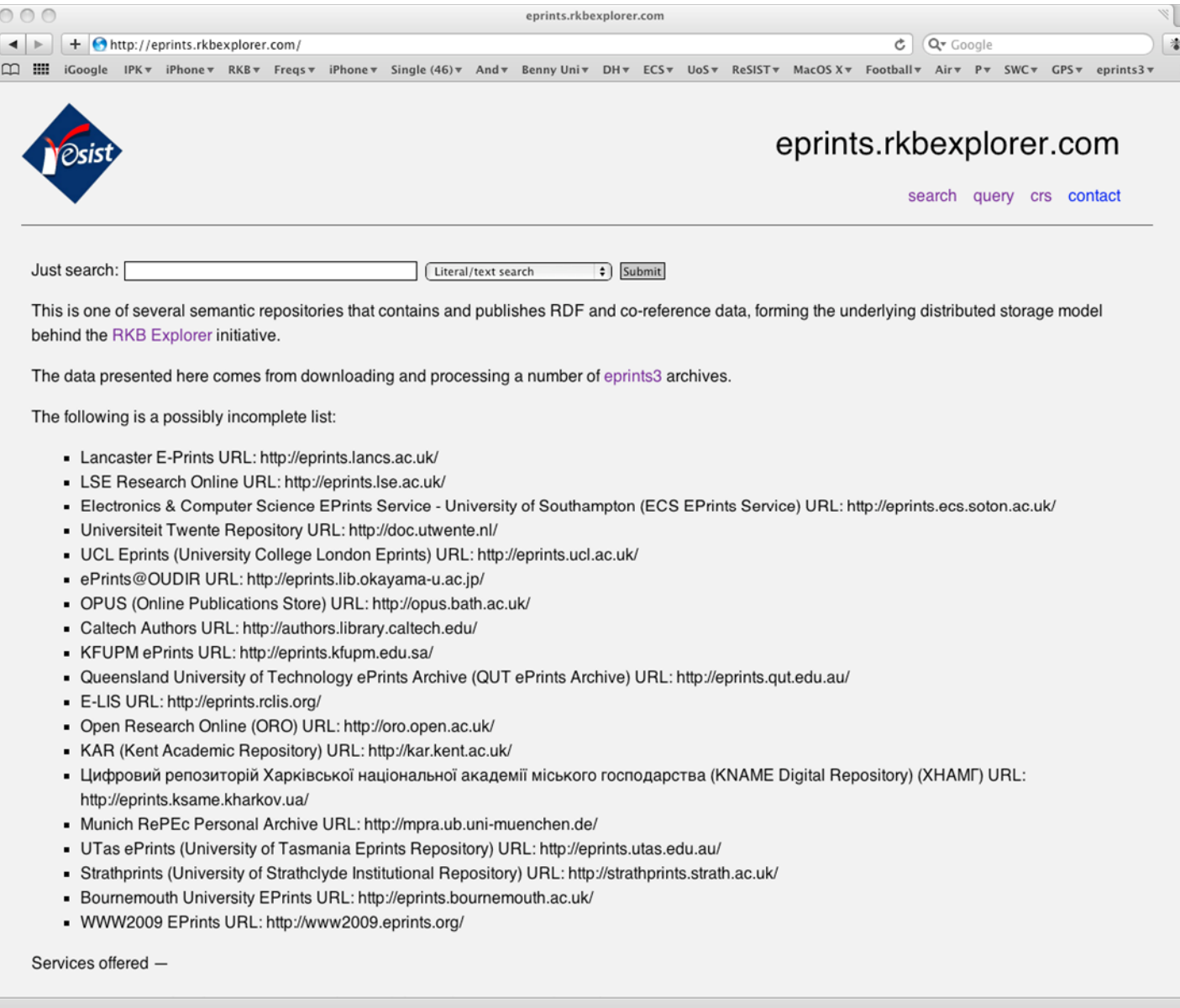
- RKB (ReSIST Knowledge Base) and RKBExplorer
- Knowledge-enabled infrastructure for cooperation in research into resilient systems
- Came out of CS AKTiveSpace
 - (Semantic Web Challenge winner 2003)
- Reasonably mature system and ongoing development



LOD Datasets on the Web: March 2009



Harvest some ePrints repositories



eprints.rkbexplorer.com

Just search: Literal/text search Submit

This is one of several semantic repositories that contains and publishes RDF and co-reference data, forming the underlying distributed storage model behind the [RKB Explorer](#) initiative.

The data presented here comes from downloading and processing a number of [eprints3](#) archives.

The following is a possibly incomplete list:

- Lancaster E-Prints URL: <http://eprints.lancs.ac.uk/>
- LSE Research Online URL: <http://eprints.lse.ac.uk/>
- Electronics & Computer Science EPrints Service - University of Southampton (ECS EPrints Service) URL: <http://eprints.ecs.soton.ac.uk/>
- Universiteit Twente Repository URL: <http://doc.utwente.nl/>
- UCL Eprints (University College London Eprints) URL: <http://eprints.ucl.ac.uk/>
- ePrints@OUDIR URL: <http://eprints.lib.okayama-u.ac.jp/>
- OPUS (Online Publications Store) URL: <http://opus.bath.ac.uk/>
- Caltech Authors URL: <http://authors.library.caltech.edu/>
- KFUPM ePrints URL: <http://eprints.kfupm.edu.sa/>
- Queensland University of Technology ePrints Archive (QUT ePrints Archive) URL: <http://eprints.qut.edu.au/>
- E-LIS URL: <http://eprints.rclis.org/>
- Open Research Online (ORO) URL: <http://oro.open.ac.uk/>
- KAR (Kent Academic Repository) URL: <http://kar.kent.ac.uk/>
- Цифровий репозиторій Харківської національної академії міського господарства (KNAME Digital Repository) (XHAMГ) URL: <http://eprints.ksame.kharkov.ua/>
- Munich RePEc Personal Archive URL: <http://mpa.ub.uni-muenchen.de/>
- UTas ePrints (University of Tasmania Eprints Repository) URL: <http://eprints.utas.edu.au/>
- Strathprints (University of Strathclyde Institutional Repository) URL: <http://strathprints.strath.ac.uk/>
- Bournemouth University EPrints URL: <http://eprints.bournemouth.ac.uk/>
- WWW2009 EPrints URL: <http://www2009.eprints.org/>

Services offered —

One of Many KBs, including other ePrints

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”



Now Look at an Author

RKBExplorer » People » Carl Lagoze

Search... Search

about system requirements
help data sources
contact 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:
[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 Construction](#)

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 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

Search... Search

about system requirements
help data sources
contact 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.sdltem.com/ontology/ldotot#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

Or a Couple of People

RKBExplorer » People » Carl Lagoze

Search... Search

Related people

Details

Full Name: [Carl Lagoze](#)

Email Address: lagoze@cs.cornell.edu

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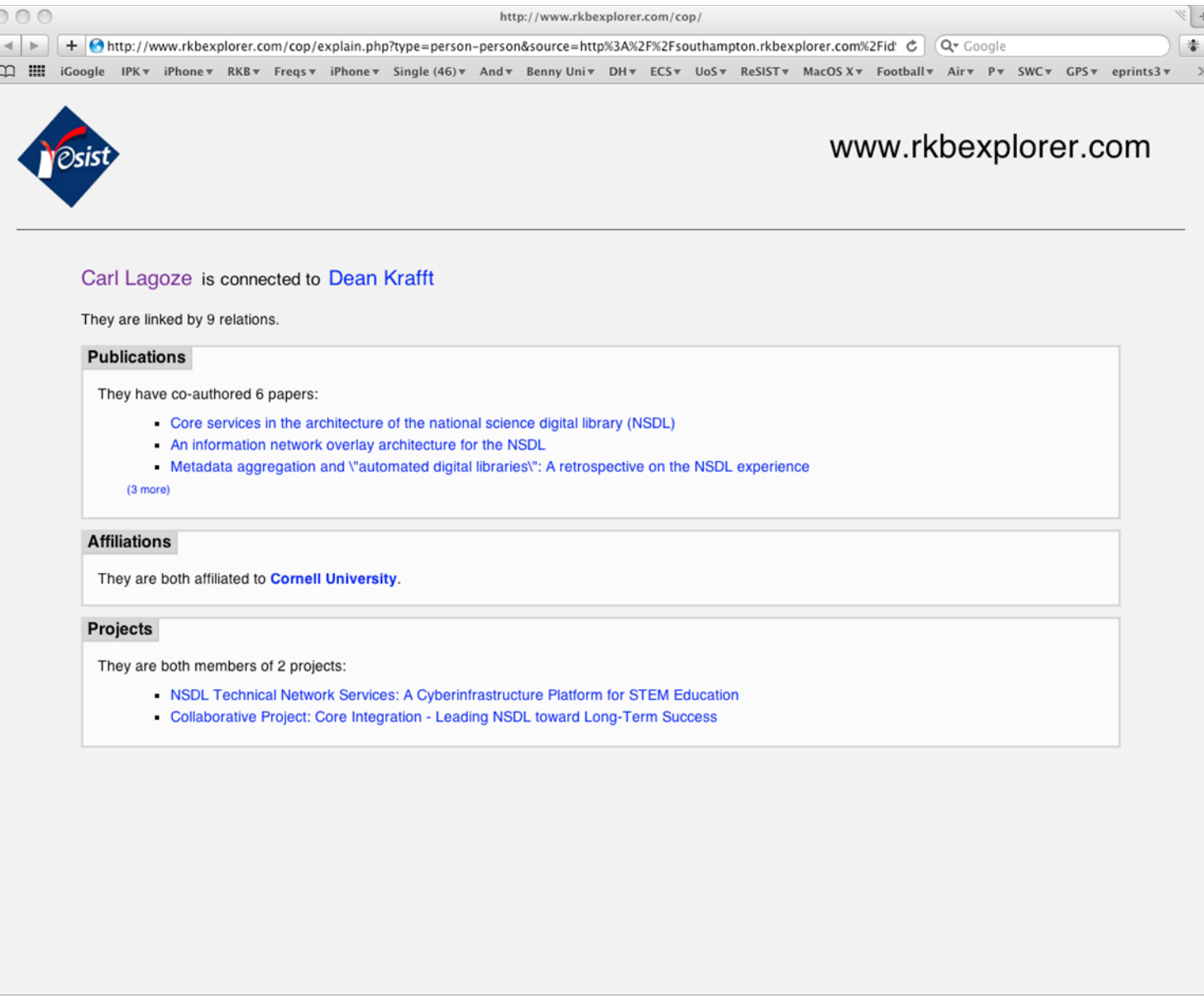
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- [Collaborative Project: Core Integration - Leading NSDL Toward Long-Term Success](#)
- [NSDL Technical Network Services: A Cyberinfrastructure Platform for STEM](#)

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**.

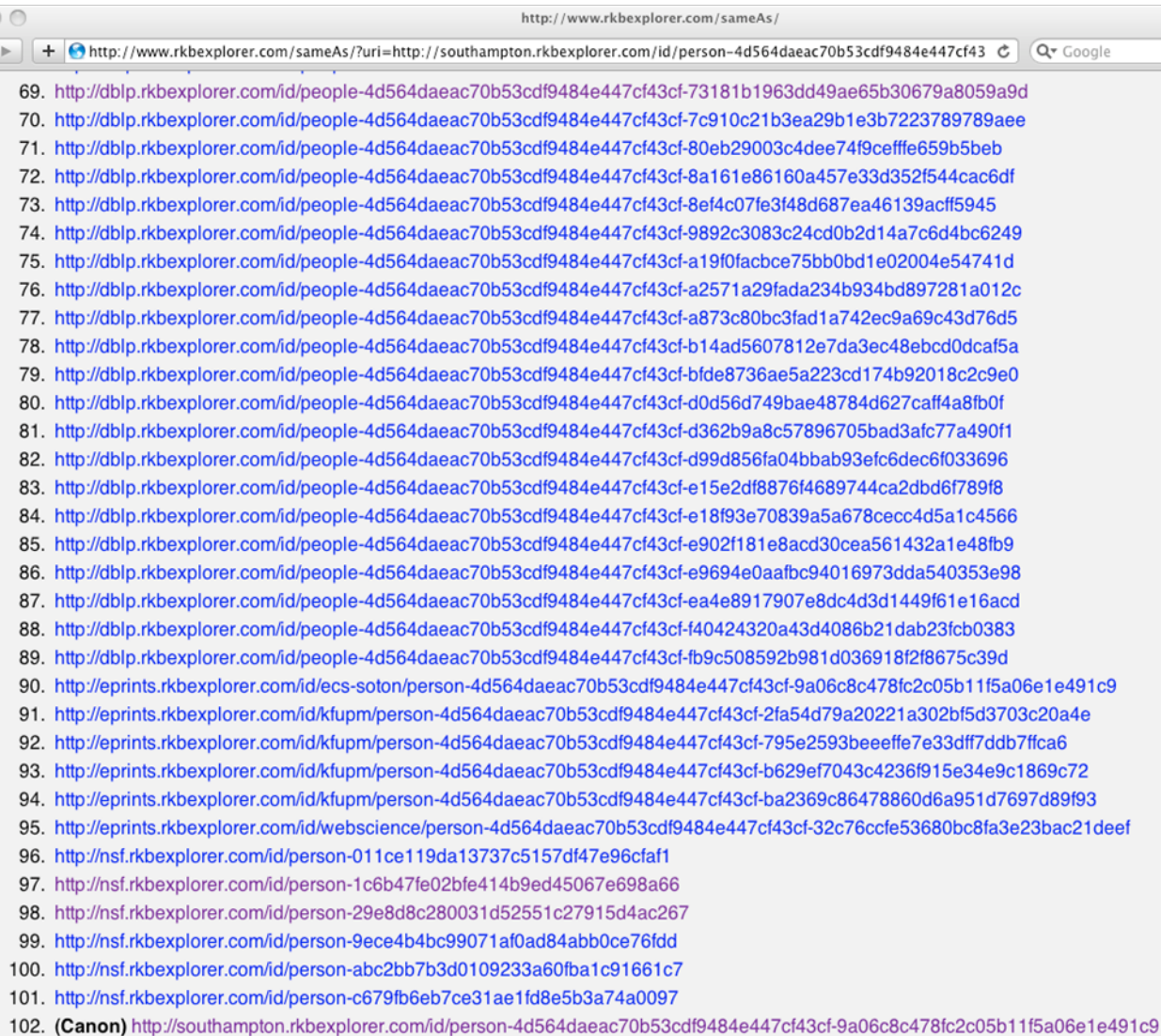
Projects

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



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-b14ad5607812e7da3ec48ebcd0dca5a>

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-011ce119da13737c5157df47e96cfa1f>

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>

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



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



Co-Reference Closure

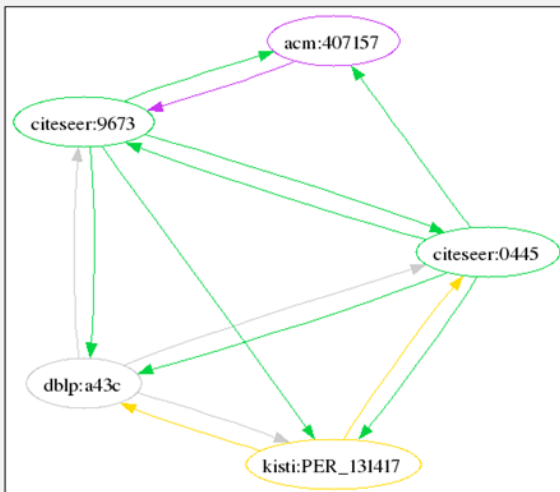
Complete Co-Reference Information

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



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



Gadget – find out about people



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
Ekstrom Adam Finkelstein J. French Stone

RKBExplorer » Networks (Communities of Practice)

Les Carr

Search Reset

Les Carr

[Display Metadata](#)

Christopher Bailey David Barron Sean
Bechhofer Donna Bergmark Tim
Brody Grainne Conole Hugh Davis David
De Roure Samhaa El-Beltagy Quintin
Gee Nicholas Gibbins Lester Gilbert Yves
Gingras Hugh Glaser Carole Goble Simon
Grange Christopher Gutteridge Wendy
Hall Stevan Harnad Stephen
Harris Jessie Hey G Hill Steve
Hitchcock Neil Jefferies Zhuoan
Liao Simon Kamey Carl Lagoze Timothy

RKBExplorer » Networks (Communities of Practice)

Les Carr

Search Reset

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](#)



Update in Action

The image displays two side-by-side screenshots of the RKBExplorer web application, illustrating the impact of adding a new publication to the Southampton ePrints repository. Both screenshots show the profile of Hugh Glaser, with a network graph of related people and lists of people, organisations, and publications.

Left Screenshot (Before): The network graph shows Hugh Glaser (red node) connected to Ian Millard, J M Wild, David De Roure, Nicholas Gibbins, Pieter Hartel, Aftaz Jaffri, Stephen Harris, and Benedicto Rodriguez. The 'People' list includes D Till, Mike Reeve, Tom Anderson, A Salhi, S Cox, Algirdas Avizienis, Chidung Lac, Les Carr, and Srinandan Dasmahapatra. The 'Organisations' list includes University of Southampton, Declarative Systems and Software Engineering, Dependable Systems and Software Engineering Research Group, and School of Electronics and Computer Science. The 'Publications' list includes RKBExplorer, RKBExplorer.com: A Semantic Web Application, RKBExplorer.com: A J-Driven Infrastructure, URI Disambiguation in the Semantic Web, Unraveling Domain Concepts in the Semantic Web, and Whose "Fault" Is This? Domain Concepts in the Semantic Web.

Right Screenshot (After): The network graph shows Hugh Glaser (red node) connected to J M Wild, Nicholas Gibbins, Benedicto Rodriguez, Ian Millard, Nigel Shadbolt, Aftaz Jaffri, David De Roure, Pieter Hartel, Harith Alani, Stephen Harris, and J M Wild. The 'People' list includes D Till, Mike Reeve, Les Carr, Tom Anderson, A Salhi, S Cox, Algirdas Avizienis, Chidung Lac, and Srinandan Dasmahapatra. The 'Organisations' list includes University of Southampton, Declarative Systems and Software Engineering, Dependable Systems and Software Engineering Research Group, and School of Electronics and Computer Science. The 'Publications' list includes A Knowledge Base for Dependability and Security Research, Knowledge-Enabled Research Support: RKBExplorer.com, RKBExplorer: Repositories, Linked Data and Research Support, An Infrastructure for Managing URI Synonymy on the Semantic Web (Poster), An Integrated Knowledge Base for European Dependability Research, Diversity, and Diversity.

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

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?

<http://eprints.ecs.soton.ac.uk/17373/>

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Details

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People

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Publications

- [Facilitating Knowledge Management in Pervasive Health Care Systems](#)
- [A Controlled Natural Language Interface for Semantic Media Wiki Using the Rabbit Language](#)
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- [Contextualising Tags in Collaborative Tagging Systems](#)
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- [On Measuring Expertise in Collaborative Tagging Systems](#)
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