Repositories, "Plugins" & the REF

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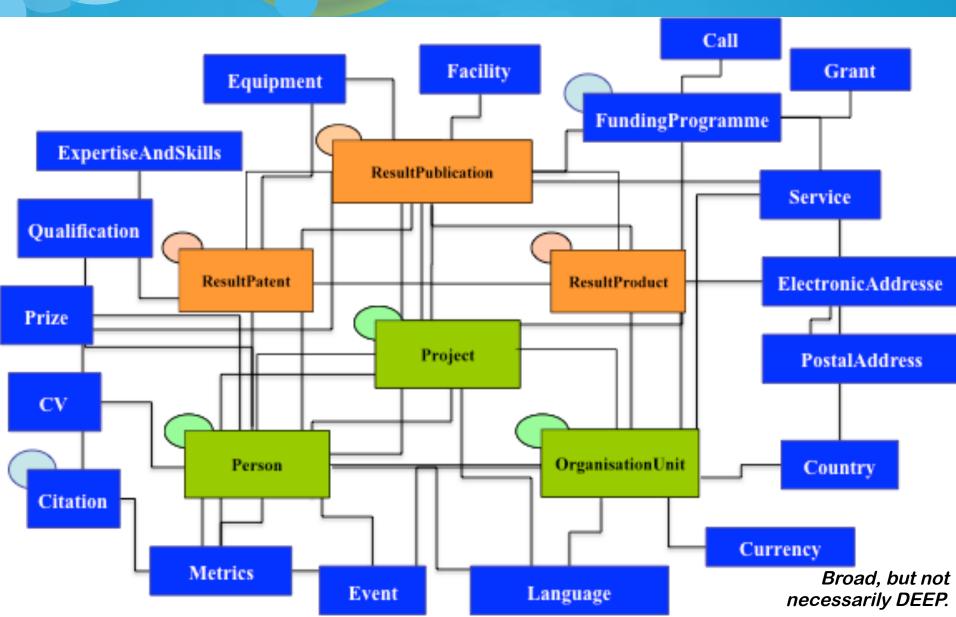
Funding Acknowledgements: JISC Readiness for REF

Current Research Information Systems

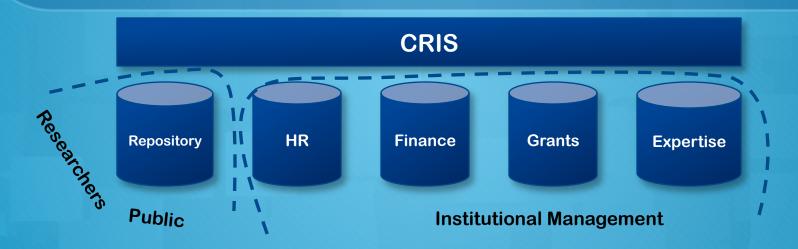
- A CRIS pulls together information from all the research-relevant databases
- Repositories should support the CERIF standard to co-operate as components of a CRIS environment



CERIF Information



CRIS Revisited



CRIS components attempt to provide service to management and researchers

Repository attempts to reach researchers and public, and provide a service to management

Admin View of A Project

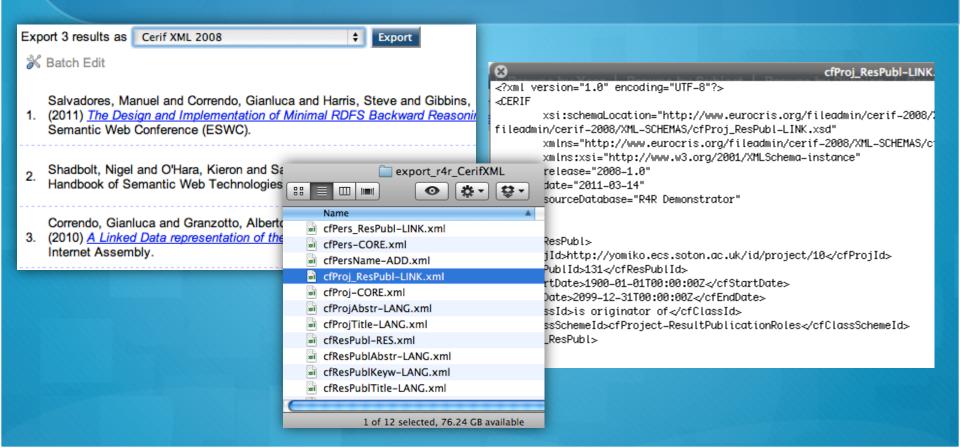
- O Grant ID / Funder / Amount
- O Start date, End Date
- Investigators
- Budget breakdown

"To support Business Analytics"

K Jeffry, Workshop on CRIS, CERIF & Institutional
Repositories, June 2010



CERIF Import/Export Plugins



Researchers' View of A Project

- Project name
- Project aims / objectives
- Project Logo / Website / Blog
- Press releases, news clippings
- Funding



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Enhancement Unit (LATEU).

Repository / CRIS combo

- O Bring new perspective to CRIS
 - Researcher-oriented
 - Publicity-oriented
 - Marketing-oriented
- O Descriptive, narrative
- Complementary to administrative perspective

EPrints / CRIS

- EPrints internally accommodates CERIF data
 - Not just publications but projects and organisations
 - Allows data interchange with external CRIS systems
 - Allows EPrints to act as a simple CRIS, or to provide CRIS-style functions
- CERIFed repositories have many separate datasets, all linked together via explicit relationships
 - a paper doesn't have a project property, it is related to project objects

EPrints Before (sans CERIF)

 Projects and funding organisations were just names typed into the paper's metadata record

Funders		?
	1. EPSRC More input rows	
Projects		?
	1. AgentLink III More input rows	

EPrints After

Now they are objects in their own right

Formate assay in body fluids: application in methanol poisoning.

Makar, A B and McMartin, K E and Palese, M and Tephly, T R (1975) Formate assay in body fluids: application in methanol poisoning. Biochemical medicine, 13 (2). pp. 117-26. ISSN 0006-2944



PDF - Published Version

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Abstract

A sensitive and specific assay for formic acid in body fluids has been developed. The assay is based on the reaction of formate with bacterial formate dehydrogenase coupled to a diaphorase-catalyzed reduction of the nonfluorescent dye resazurin to the fluorescent substance resorufin. Formate concentrations of 0.5 µg/ml of reaction mixture can be accurately measured. Small volumes of body fluids can be used for the analysis of both methanol and formate. The procedure described is simple and allows for the economical and rapid determination of formate. It can be used in studies concerned with the disposition of formate, as it relates to methanol metabolism. Also, it may be useful in studies where formate might exist as a metabolic intermediate of certain drugs or chemicals.

Projects

[118] Performance of Nonlinear Controllers
[428] High Performance and Robust Systems

Item Type: Article

Performance of Nonlinear Controllers

We are concerned with controlling uncertain nonlinear systems via adaptive techniques. We are particularly interested in evaluating the performance of adaptive controllers, and comparing them against eg. robust designs. This has involved developing techniques which allow lower and upper bound estimates to be made of eq. LO performance. Uniquely in adaptive control theory, we are accounting for the control effort in the cost. Our original focus of attention is in controlling systems containing significant static functional uncertainties (as opposed to the more standard set-up where the uncertainties considered are parametric). The approach considered involves the introduction of function approximators for on-line modelling of the static uncertainties. We have developed a framework for describing the classes of uncertainties for which such controls are valid -- contrasting to the robust theory, uncertainties are measured by spatial L2 weighted norms contrasting to usual static uncertainty models which are formed by pointwise bounds. The interest in performance arose as we tried to quantify which function approximator structures are `best'. This wonderfully ill-posed question is very rich. Currently we have been able to exhibit some structures whose associated LQ performance scales badly as the resolution of the approximator is increased, and also to construct controllers and approximator structures which scale well. Unfortunately, the class of approximator based controllers scale poorly includes some of the standard designs. Our focus of attention is now on using the framework developed for addressing the above question to compare the performances of more classical designs.

Contributors

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Grant Reference

GR/R27594/01

nders [21] Engineering and Physical Sciences Research Council

Commencement Date 01 April 2001 Completion Date 31 May 2004

http://www.isis.ecs.soton.ac.uk/control/projects/adaptive/adaptive.htm

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 A paper links to its affiliated projects, instead of just mentioning them

Concluding Remarks

- ⊘ Available from EPrints v3.3 (summer 2011)
- Repositories have a history of engagement with grassroots / public
 - o providing services (portfolios, collections, reports)
 - collecting/managing/preserving information and knowledge products
- These engagements can enrich CRIS products
- CRIS ontological breadth can enrich repositories
- Distinction between CRIS / repository starts to blur.

PS What is a Repository?

- A repository is not just a piece of information management software
- It is a socially embedded technological phenomenon that promotes new relationship to research information
 - O International programs of 'advocacy'
 - Institutionally embedded, with teams of librarians trained to use, and to train researchers to use, repositories
 - Personal engagement with end-users