



Citation Services (Overview)

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International Workshop on Co-operation on Citation
Services and Repositories
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JISC

Decades of Achievement

Internet (packets)

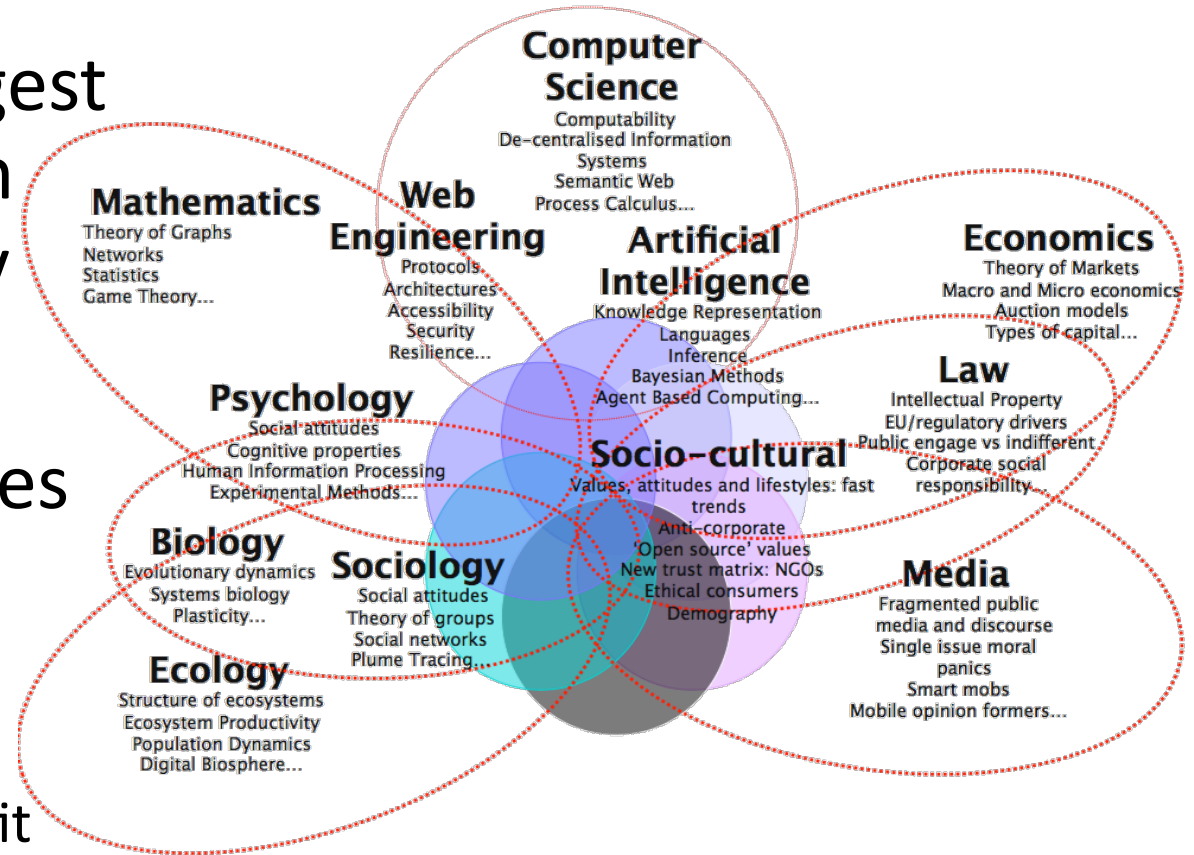
Web (documents)

Repository (preservation)



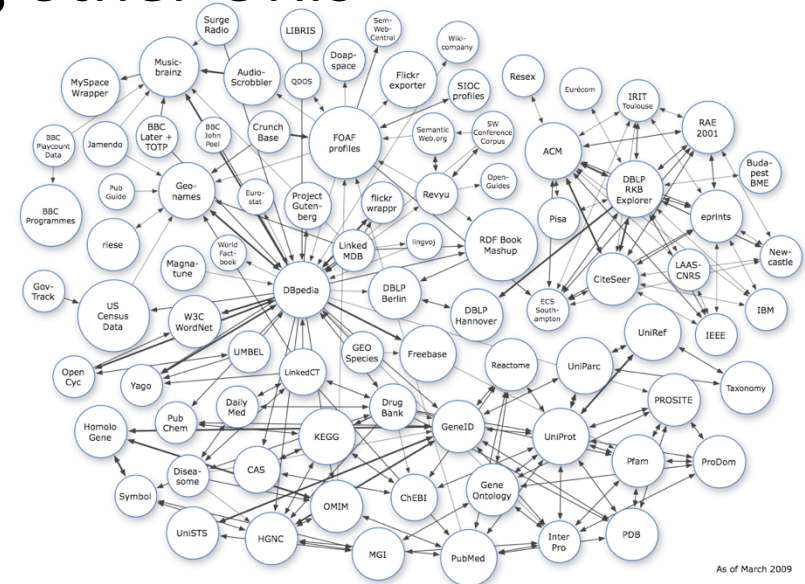
Web Science

- The Web is the largest human information construct in history
- Web Science enables us to
 - Understand what it is
 - Engineer its future
 - Ensure its social benefit
- What is the impact of the Web on society?



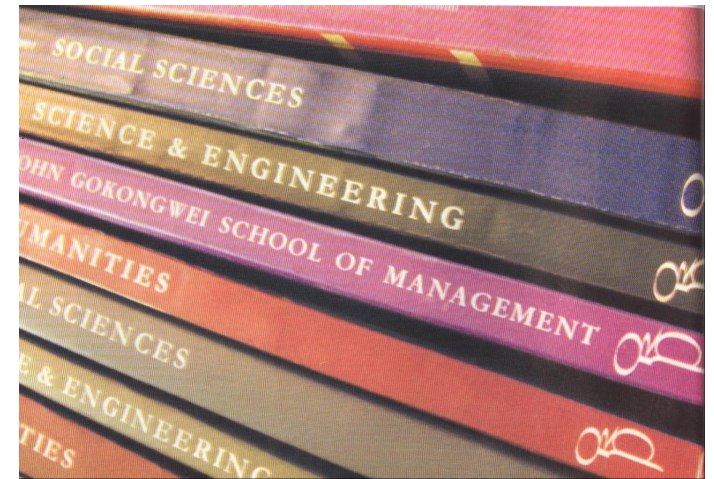
Four principles of Linked Data

- Four principles of linked data
 1. Every thing has a URID
 2. Publish information about that thing at that URI
 3. Use standard, open formats
 4. Mention other things using other URIs
- Result
 - An open web of open information



Four principles of scholarly comms

- Four principles of scholarly comms
 1. Every paper has a DOI
 2. Publish information at the DOI
 3. Use a standard format
 4. Reference other papers
- Result
 - The literature - a private web of licensed information that is not free to use
 - Even using the metadata is problematic



Aims of Citation Services

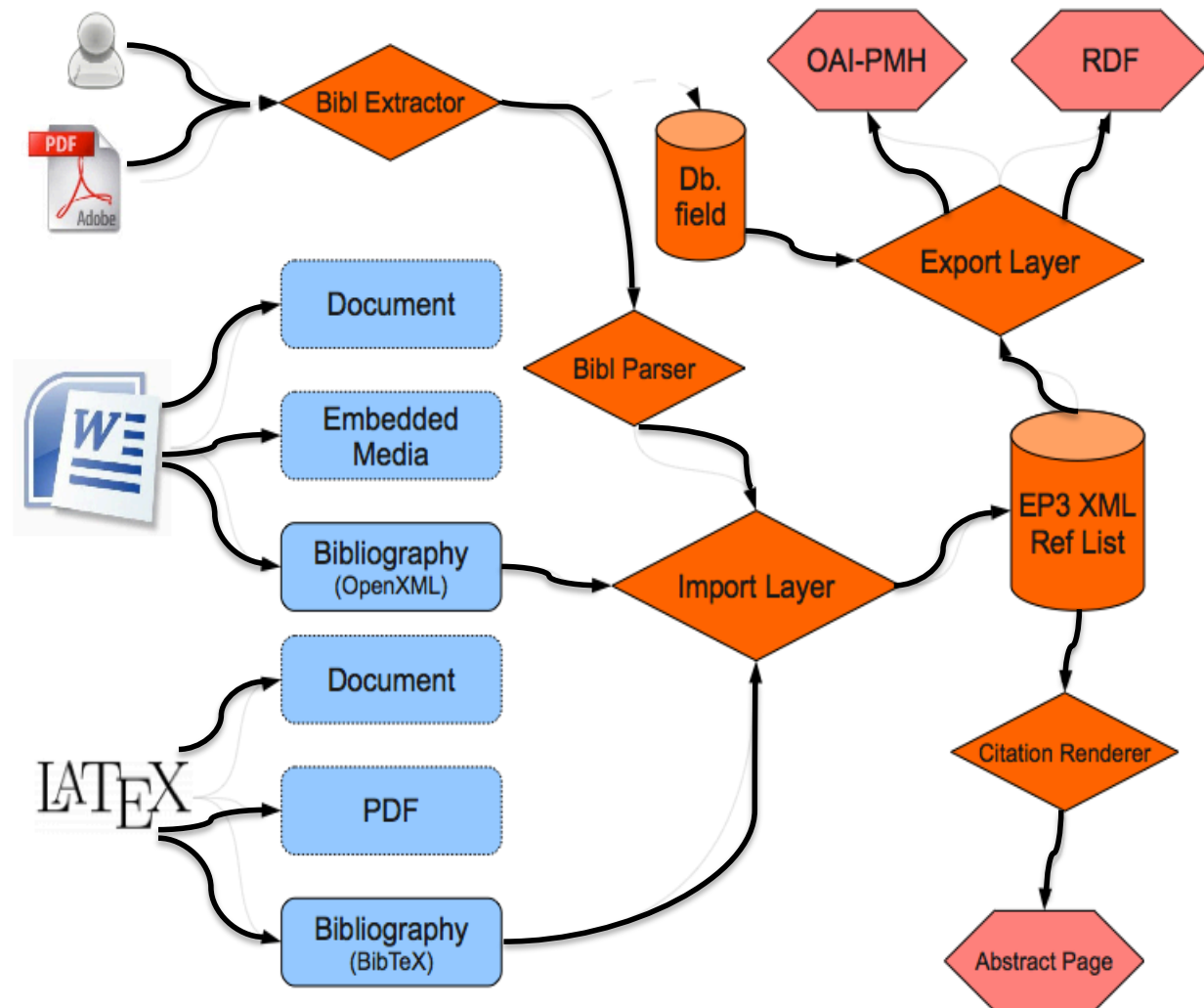
- improve the ways in which citation data relating to open access research documents are identified and shared
- current services and bibliographic research is restricted to a small number of commercial actors
 - insufficiently developed for the academic community
- citation information needs to be recognized as a part of the Commons
 - a freely shared citation infrastructure
 - format-agnostic
 - transdisciplinary,
 - international
- used by a wide variety of services

Project Outline

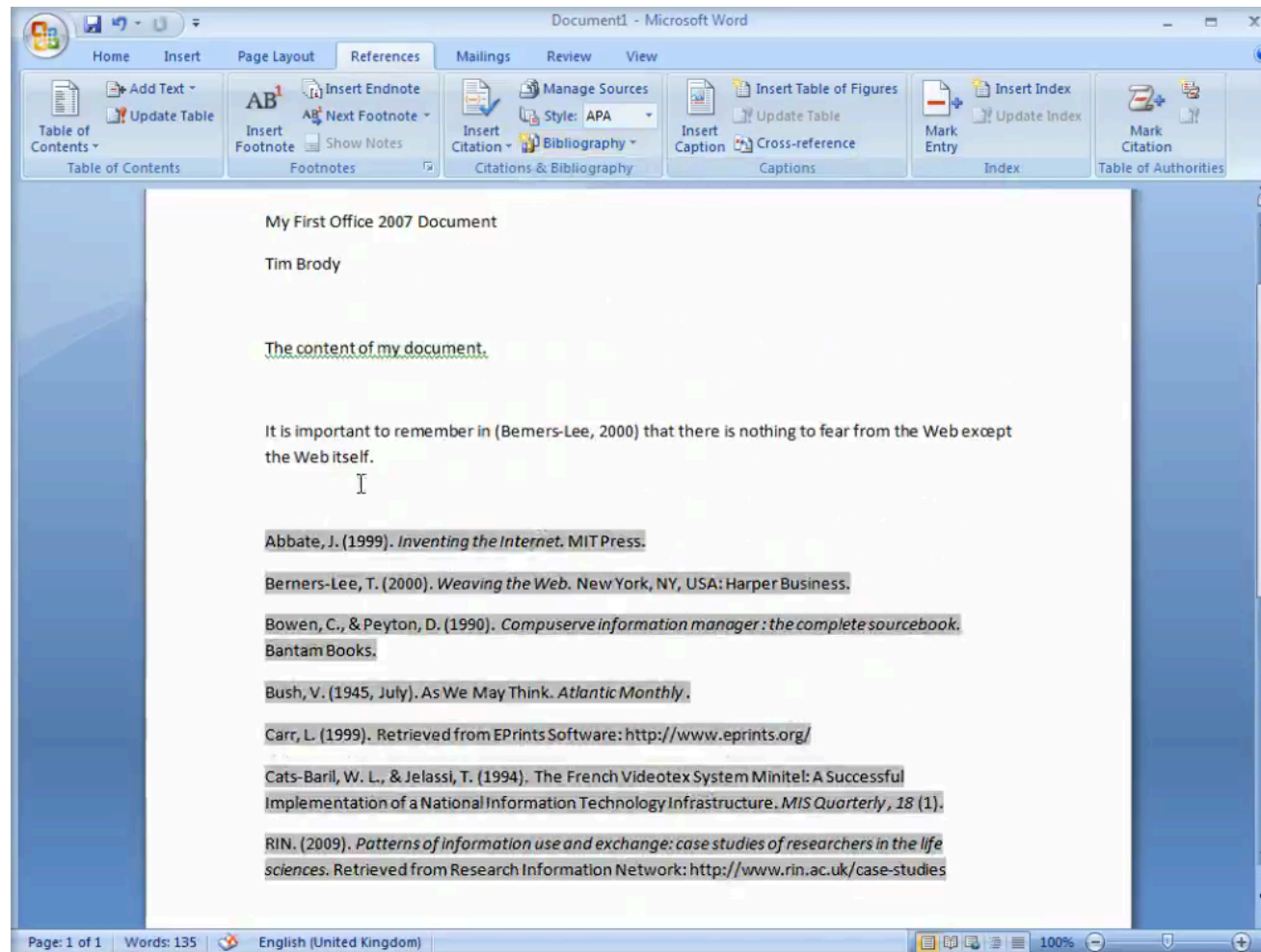
- 1) Author support tools: for Microsoft Word and BibTeX
- 2) Reference list deposit in repository metadata for general repository deposit workflow
- 3) OAI-PMH citation schema and protocol extension
- 4) Reference extractor (Perl)
 - extracts bibliographies from a research work (PDF, HTML, Office)
- 5) Reference deconstructor
 - breaks down a reference list into basic constituent parts for later analysis.
- 6) Large testbed of representative documents
- 7) One or more basic services (citation databases) which can collect, combine and disambiguate (recognise eliminate duplicate) citations
 - building on citebase
- 8) Exemplar advanced value-added services: examples of such services might be citation graph visualisation, network visualisation and trackback (track back through the literature using citation links) services
- 9) Infrastructure for auditing and quality assurance services

Citation Workflow

- Opportunities to obtain citation data
 - manually from author
 - explicit bibliography data (Office or BibTeX)
 - automated data scraping



Demo



Next Stages

- Build testbed
- Collect citation extraction software
 - Open source projects
 - Citebase, Citeseer etc
- Evaluate software against testbed

Building Testbed

- Previous solutions have not been general
- Reference Testbed
 - Interdisciplinary collection of documents
 - Wide-ranging exemplars
 - International scope
- A collection of material that is donated and curated by a community of people
 - ie a repository

Final Stages

- Build example services

Search Citebase Information and Help Impact Health Warning Login/Regis

Anti De Sitter Space And Holography

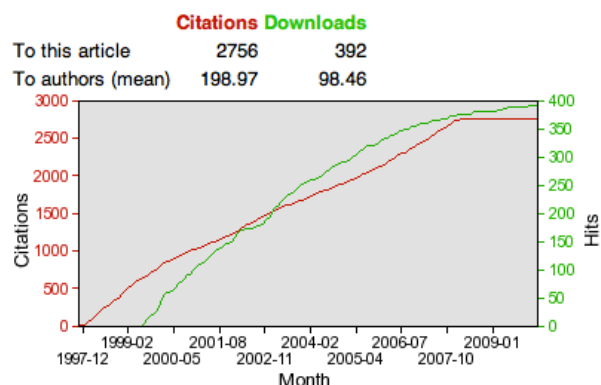
Authors: [Witten, Edward](#)

Recently, it has been proposed by Maldacena that large N limits of certain conformal field theories in d dimensions can be described in terms of supergravity (and string theory) on the product of d+1-dimensional AdS space with a compact manifold. Here we elaborate on this idea and propose a precise correspondence between conformal field theory observables and those of supergravity: correlation functions in conformal field theory are given by the dependence of the supergravity action on the asymptotic behavior at infinity. In particular, dimensions of operators in conformal field theory are given by masses of particles in supergravity. As quantitative confirmation of this correspondence, we note that the Kaluza-Klein modes of Type IIB supergravity on $AdS_5 \times S^5$ match with the chiral operators of $N=4$ super Yang-Mills theory in four dimensions. With some further assumptions, one can deduce a Hamiltonian version of the correspondence and show that the $N=4$ theory has a large N phase transition related to the thermodynamics of AdS black holes.

Comment: 40 pp.; additional references and assorted corrections

Full-text available from: [Cached PDF](#)
[Linked PDF \(experimental\)](#)
 Adv.Theor.Math.Phys.2:253-291,1998
<http://arxiv.org/abs/hep-th/9802150>

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1461 [Aharony, O.](#); [Gubser, S. S.](#); [Maldacena, J. et al](#) (1999-05-14) oai:arXiv.org:hep-th/9905111

We review the holographic correspondence between field theories and string/M theory, focusing on the relation between compactifications of string/M theory on Anti-de Sitter spaces and conformal field theories. We review the background for this correspondence and discuss its motivations and the evidence ... Comment: 261 pages, 42 post-script figures. Please send any comment to jmaldac@fas.harvard.edu. v2: added references and small corrections. v3: minor changes and corrected discussion of SU(3)-invariant supergravity solution

[Strings in flat space and pp waves from \$N=4\$ Super Yang Mills](#) [[Abstract](#), [983 Cites](#), [Pre-print PDF](#)]

983 [Berenstein, David](#); [Maldacena, Juan](#); [Nastase, Horatiu](#) (2002-02-04) In *JHEP 0204 013 (2002)*


We explain how the string spectrum in flat space and pp-waves arises from the large N limit, at fixed g^2_{YM} , of $U(N)$ $N=4$ super Yang Mills. We reproduce the spectrum by summing a subset of the planar Feynman diagrams. We give a heuristic argument for why we can neglect other diagrams. We also d ... Comment: 36 pages, 5 figures. v3: minor typos corrected, references added

[Anti-de Sitter Space, Thermal Phase Transition, And Confinement In Gauge Theories](#) [[Abstract](#), [838 Cites](#), [Pre-print PDF](#)]


838 [Witten, Edward](#) (1998-03-16) oai:arXiv.org:hep-th/9803131

The correspondence between supergravity (and string theory) on AdS space and boundary conformal field theory relates the thermodynamics of $N=4$ super Yang-Mills theory in four dimensions to the thermodynamics of Schwarzschild black holes in Anti-de Sitter space. In this description, quantum phe ... Comment: 28 pp., added references and minor corrections

Final Stages: Linked Citation Data

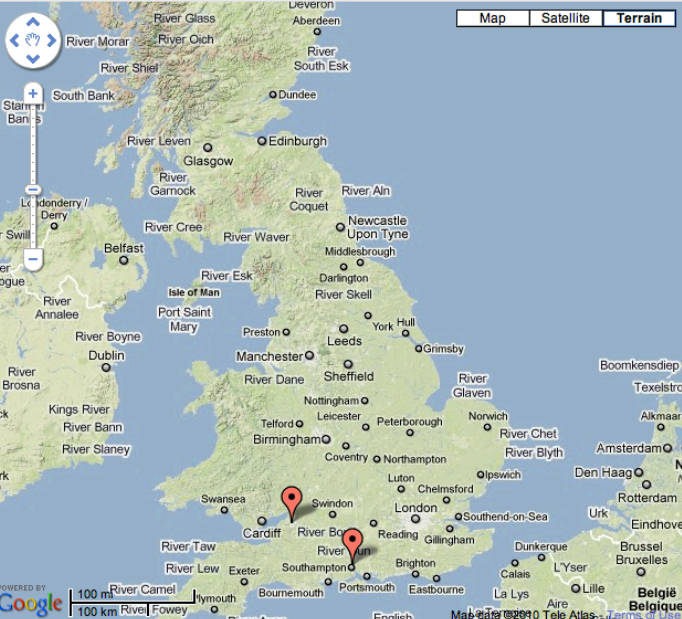
**dotAC: Exploring the UK research landscape**

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Location of Project Members

Map Satellite Terrain



Details

Names:
dotAC: Exploring the UK research landscape
[dotAC](#)

Starts:
01/06/2009

Ends:
30/11/2009

Web Address:
<http://www.dotac.info/>

Description:

Project Members

- [David Flanders\(JISC\)](#)
- [Dr Nicholas Gibbons](#)

Participating Organisations

- [University of Southampton](#)

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dotAC Explorer

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Related people

Details

Full Name: [Hugh Glaser](#)

People

- [Ian Millard](#)
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Publications

- [Linked Data, Publishing and Computing in the Semantic Web](#)
- [Managing Coreference in the Semantic Web](#)
- [dotAC Explorer: Reasoning, Linked Data and Research Support](#)
- [Research on Linked Data and Co-reference Resolution](#)

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