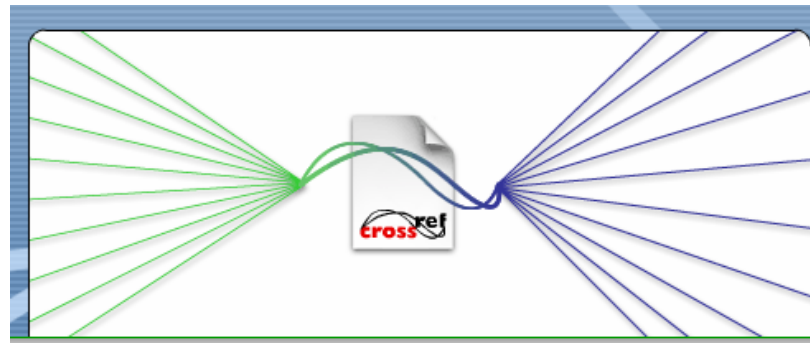


CrossRef Annual Meeting



1 November 2006

Technical Operations Review

- Statistics

By the numbers, how things are running

- Updates

Current info about on-going initiatives

- News

Features, services and initiatives started this past year

- Plans

Things on the “to-do” list

Chuck Koscher
Director of Technology
ckoscher@crossref.org

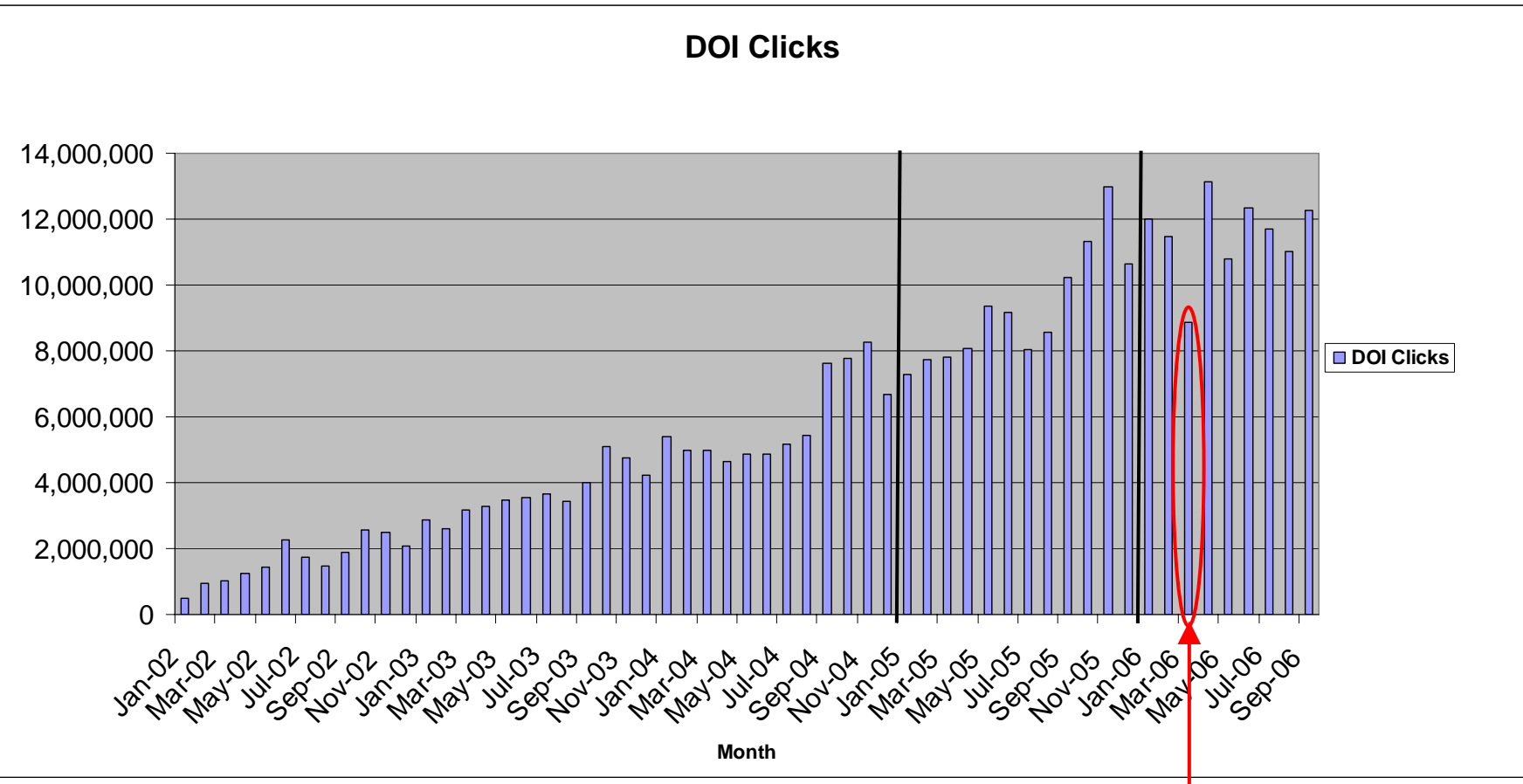


Statistics

- Query response times single query/single request (HTTP)
Avg: 400-800 mSec Min: 350 mSec, Max: 2.75 Seconds (has increased)
- Query load down slightly but matching rate is up
2005 ➡ 13-16 million/month 2006 ➡ 8-15 million/month
2005 ➡ 26% 2006 ➡ 33%
Stored query volume : 12 million in Oct (36M yet unresolved), 3.7% matching rate
- Deposit response time has slowed, but transaction volume is up
Deposits taking more than 12 hrs as grown: 2005 ➡ 1%, 2006 ➡ 1-3%
Deposit volume is up: 2005 ➡ 4,521,578, 2006(to Oct 29) ➡ 4,618,751
- Forward linking continues to grow:
42,267,546 'cited-by' links

Statistics

➤ DOI resolutions are stable to up



Lost log data



Updates

Simple Text Query

- Currently open to the public, no fee and no account required.
- Usage has exceeded our original estimates (Jan 1- Oct 19)

Transactions=103907, # refs=201455, # refs parsed=160038,#DOIs found=136698



This form allows you to retrieve the reference list into the box below if references are formatted in a standard style.

Clow GD, McKay CP, Simmons J Hoare, Antarctica. Journal of Climate

To test the interface, simply cut and paste the reference list into the box below.

Please separate individual references by a line. When submitting multiple references, please check the accuracy of a reference.

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[a] T. Hudlicky, G. Seoane, T. Pettus, J. Org. Chem. 1989, 54,4239.

doi:10.1021/jo00278a052

<http://dx.doi.org/10.1021/jo00278a052>

[b] T. Hudlicky, C. H. Boros, E. E. Boros, Synthesis 1992,174.

doi:10.1055/s-1992-34161

<http://dx.doi.org/10.1055/s-1992-34161>

[c] G. Butora, A. G. Gum, T. Hudlicky, K. A. Abboud, Synthesis 1998, 275.

doi:10.1055/s-1998-4529

<http://dx.doi.org/10.1055/s-1998-4529>

[d] J. Zezula, T. Hudlicky, I. Ghiviriga, Coll. Czech. Chem.Comm. 2001, 66, 1269.

doi:10.1135/cccc20011269

<http://dx.doi.org/10.1135/cccc20011269>



Enter text in the box below:

[6] [a] T. Hudlicky, G. Seoane, T. Pettus, J. Org. Chem. 1989, 54,4239.
[b] T. Hudlicky, C. H. Boros, E. E. Boros, Synthesis 1992,174.
[c] G. Butora, A. G. Gum, T. Hudlicky, K. A. Abboud, Synthesis 1998, 275.
[d] J. Zezula, T. Hudlicky, I. Ghiviriga, Coll. Czech. Chem.Comm. 2001, 66, 1269.

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Article Views

Science 28 February 1997:
 Vol. 275, no. 5304, pp. 1320 - 1323
 DOI: 10.1126/science.275.5304.1320

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REPORTS

Isolation of a Common Receptor for Coxsackie B Viruses and Adenoviruses 2 and 5

Jeffrey M. Bergelson,^{*} Jennifer A. Cunningham, Gustavo Droguett, Evelyn A. Kurt-Jones, Anita Krithivas, Jeong S. Hong, Marshall S. Horwitz, Richard L. Crowell, Robert W. Finberg

A complementary DNA clone has been isolated that encodes a coxsackievirus and adenovirus receptor (CAR). When transfected with CAR complementary DNA, nonpermissive hamster cells became susceptible to coxsackie B virus attachment and infection. Furthermore, consistent with previous studies demonstrating that adenovirus infection depends on attachment of a viral fiber to the target cell, CAR-transfected hamster cells bound adenovirus in a fiber-dependent fashion and showed a 100-fold increase in susceptibility to virus-mediated gene transfer. Identification of CAR as a receptor for these two unrelated and structurally distinct viral pathogens is important for understanding viral pathogenesis and has implications for therapeutic gene delivery with adenovirus vectors.

J. M. Bergelson, J. A. Cunningham, E. A. Kurt-Jones, A. Krithivas, R. W. Finberg, Division of Infectious Diseases, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA 02115, USA.
 G. Droguett and M. S. Horwitz, Departments of Microbiology-Immunology, Cell Biology, and Pediatrics, Albert Einstein College of Medicine, Bronx, NY 10461, USA.
 J. S. Hong, Department of Cell Biology and Anatomy, Gregory Fleming James Cystic Fibrosis Research Center, University of Alabama at Birmingham, Birmingham, AL 35294, USA.

Updates

Multiple resolution

- > Interim
- > Ove
- > IET
- > Tem
- > <http://www.crossref.org>
- > Full
- > Requires
- > Insta
- > When is
- > If y
- > A 3

Current Links for doi: 10.1049/ip-cdt:20030829 - Mozilla Firefox

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The Institution of Engineering and Technology is a new institution which has been formed by joining the IEE (Institution of Electrical Engineers) and the IIE (The Institution of Incorporated Engineers).

Schedulability analysis and optimisation for the synthesis of multi-cluster distributed embedded systems

Pop

IEE Proceedings - Computers and Digital Techniques (2003), 150(5):303

doi:10.1049/ip-cdt:20030829

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Updates

Everything else...

➤ Support services



Web deposit form: easy non-VMI form based method of depositing DOIs.

| | | | | | | | | | | | |
|--|------------|------------|------------|------------|---------|------------|-----------|------------|------------|--------------------|------------|
| Months | 2006-09 | 2006-08 | 2006-07 | 2006-06 | 2006-05 | 2006-04 | 2006-03 | 2006-02 | 2006-01 | 2005-12 | 2005-11 |
| By Owner | 2,114,616 | 1,811,364 | 1,895,193 | 2,025,744 | na | 2,003,177 | 1,191,023 | 1,854,368 | 1,874,767 | 1,544,328 | 2,363,470 |
| By Prefix | 2,087,194 | 1,785,496 | 1,868,382 | 1,996,050 | na | 1,972,031 | 1,175,109 | 1,809,020 | 1,849,803 | 1,522,043 | 2,333,594 |
| | | | | | | | | | | | |
| All members | 12,272,886 | 11,007,980 | 11,709,041 | 12,348,559 | na | 13,123,477 | 8,853,495 | 11,471,379 | 11,994,163 | 10,654,812 | 12,973,206 |
| | | | | | | | | | | | |
| Top 10 DOIs | | | | | | | | | | Resolutions to DOI | |
| 10.1002/(ISSN)1097-0142 | | | | | | | | | | 55129 | |
| 10.1002/wcm.27 | | | | | | | | | | 3779 | |
| 10.1002/asi.20221 | | | | | | | | | | 440 | |
| 10.1002/eat.20305 | | | | | | | | | | 436 | |
| 10.1002/1521-3773(20010601)40:11<2004::AID-ANIE2004>3.0.CO;2-5 | | | | | | | | | | 436 | |
| 10.1002/14651858.CD003362 | | | | | | | | | | 434 | |
| 10.1002/art.22025 | | | | | | | | | | 402 | |
| 10.1002/hep.21321 | | | | | | | | | | 395 | |
| 10.1002/jssc.200600189 | | | | | | | | | | 394 | |
| 10.1002/cncr.22205 | | | | | | | | | | 369 | |
| Resolutions attempts | | | | | | | 2114616 | | | | |
| Resolved at Handle | | | | | | | 2039858 | | | | |
| Handle Failures | | | | | | | 70587 | | | | |
| Resolved at local link server | | | | | | | 4171 | | | | |

➤ M

➤ Sy

➤ Improved multiple_mts function. list all possible DOIs

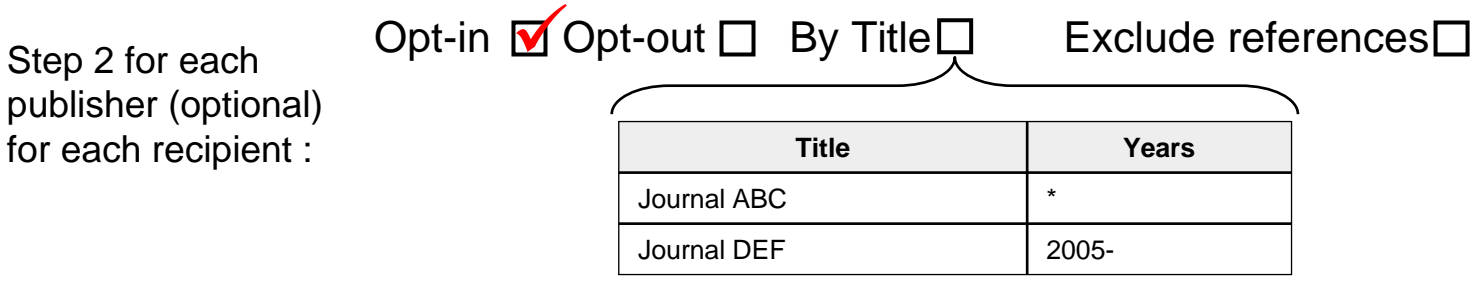
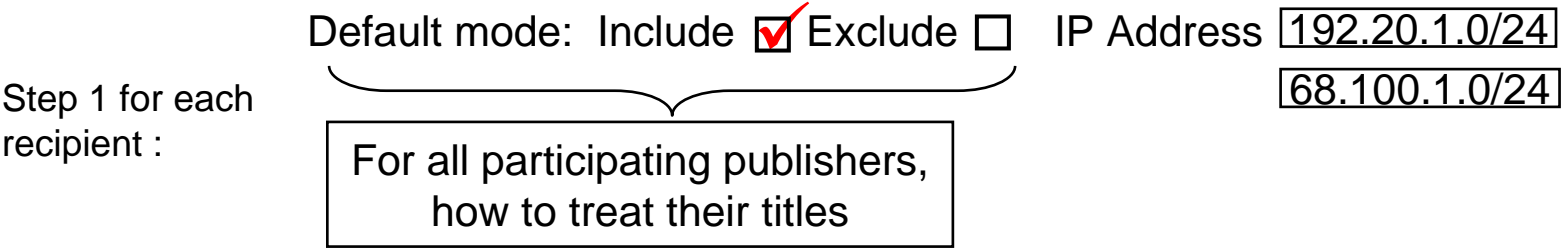
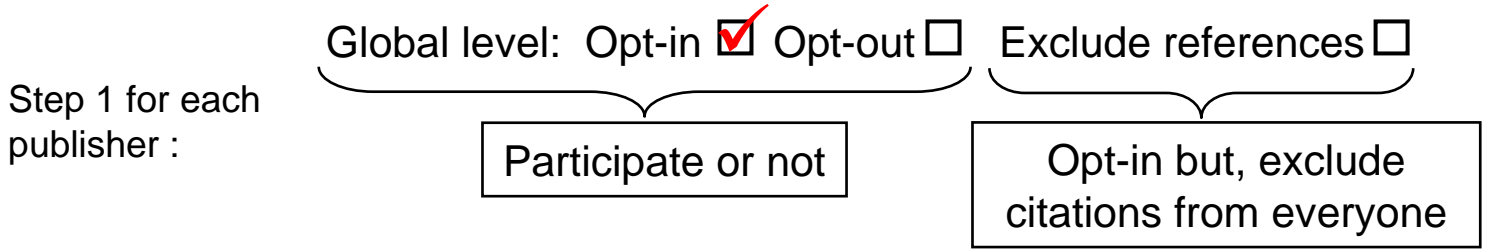
➤ ECT deposit of type database/dataset



- Primary implementation of CrossRef Web Services initiative
 - Provide a central point for the distribution of metadata for millions of identifiers from 100s of publishers,
 - Utilize common/existing distribution protocols and technology
- Targeted at consumers of mass quantities of metadata.
- While based on OAI-PMH, there are differences
 - Uses IP authentication for access control (2 IP address ranges per recipient)
 - Distributes XML per CrossRef schema, no DC support (yet)

| % CrossRef Publisher participation | revenue <\$1 m | revenue \$1 -10 m | revenue > \$10 m |
|------------------------------------|----------------|-------------------|------------------|
| <50% | \$2,500 | \$10,000 | \$50,000 |
| 51-75% | \$2,750 | \$11,000 | \$55,000 |
| 76-100% | \$3,000 | \$12,000 | \$60,000 |

- CrossRef is offering an interface to harvesters for retrieval of all metadata
- Follows PMH v2.0, but has access control based on 'recipient' IP addresses
- Hierarchical management structure for data inclusion (opt-in/opt-out)



| Verb | Use | Example |
|----------------------|---|--|
| Identify | Ask a repository about itself. | oai.crossref.org/OAIHandler?verb=Identify |
| ListMetadata Formats | Ask which formats (XML schemas) data is available in. Compliant repositories support Dublin Core. | oai.crossref.org/OAIHandler?verb=ListMetadata Formats |
| ListSets | Ask to list the hierarchical structure it uses to organize itself | oai.crossref.org/OAIHandler?verb=Identify |
| ListIdentifiers | Ask to list the identifiers in the whole repository or a particular set | oai.crossref.org/OAIHandler?verb=ListIdentifiers |
| ListRecords | Ask to return the metadata for all records in the repository or those in a given set | oai.crossref.org/OAIHandler?verb=ListRecords&SetSpec=10.1002:300:1999 |
| GetRecord | Ask for the metadata of a given identifier. | oai.crossref.org/OAIHandler?verb=GetRecord &metadataPrefix=cr_unixml &identifier=info:doi/10.1002/jnr.490010101 |

- Development is complete, testing is underway.
 - Internal testing will continue until the end of November
 - Trial use by external users is taking place
 - Two recipients are currently enabled and able to test (MS, Scirus)



- Confirm that DOIs are still working and point to a valid landing page
 - Article title, DOI, bibliographic data, no error messages
- Low sampling rate: 10%, max 50 DOIs per title, 6-12 month interval

The screenshot shows a web browser window with a 'Crawler Status Report' overlay. The background is the website for The Haworth Press Inc., featuring a search bar and a navigation menu. The report overlay contains the following information:

- STEP 1**: Search for an article
- STEP 2**: Add it to the cart
- STEP 3**: Check out
- Product:** Structural and Strategic Family Therapy Techniques: Application to Chemically Dependent Families
- Status:** This Article is not available for sale at this time. Please contact docdelivery@haworthpress.com for further information.
- Action:** Done / Continue

On the left side of the browser, a list of journals is visible, with 'Journal of Chemical Education' circled in red. At the bottom left, there is a 'crossref.org' logo with the text 'DOIs FOR RES'. At the bottom right, there is a 'crossref <enabled>' logo.

- System changes
 - Enhanced query on just article title and/or author name (supports need for non-duplicative deposits from institutional repositories)
 - Move DB to Oracle on Linux (from Solaris)
 - Performance improvements:
hardware upgrades, possible implementation of system back-end redesign
 - Solve the metadata change notification problem (a forward linking issue)
- Supporting services changes
 - Modify DOI crawler title matching function and begin full operation
 - Consolidate member reports (My CrossRef)
 - Find more ways to surface & repair quality issues.