

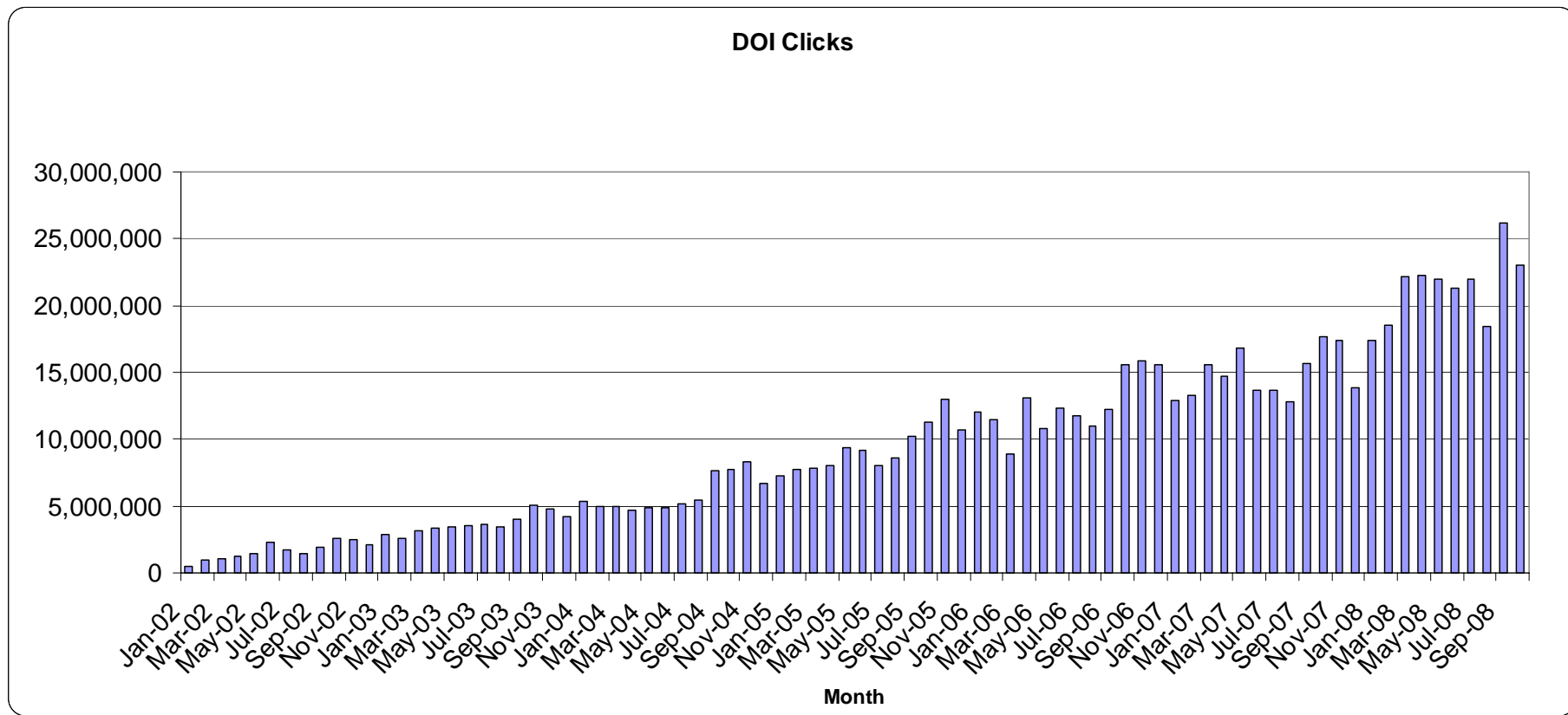
System Update

Chuck Koscher

Director of Technology

ckoscher@crossref.org

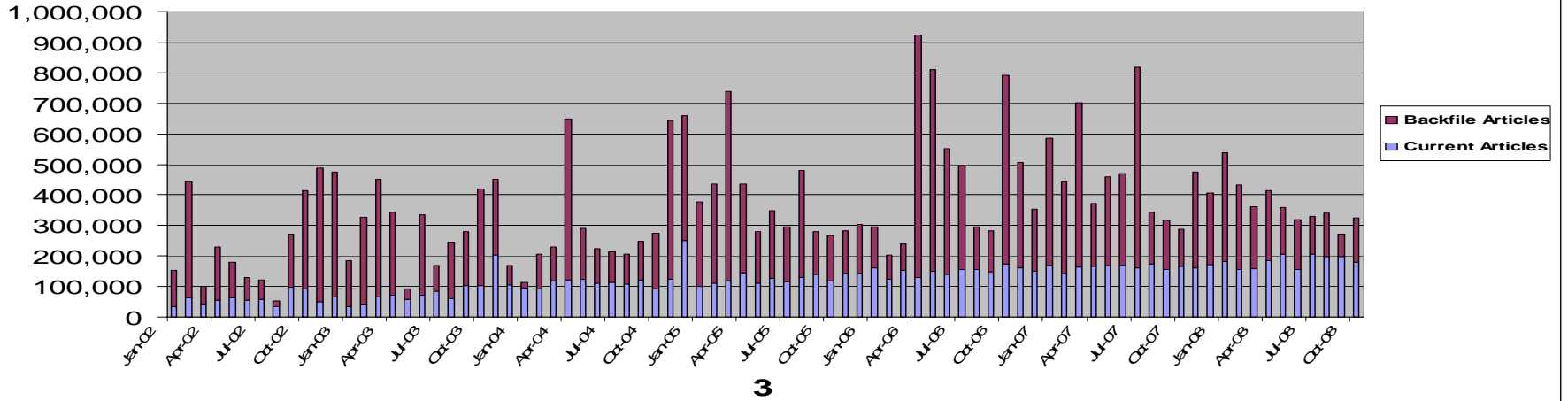
DOI use remains very strong



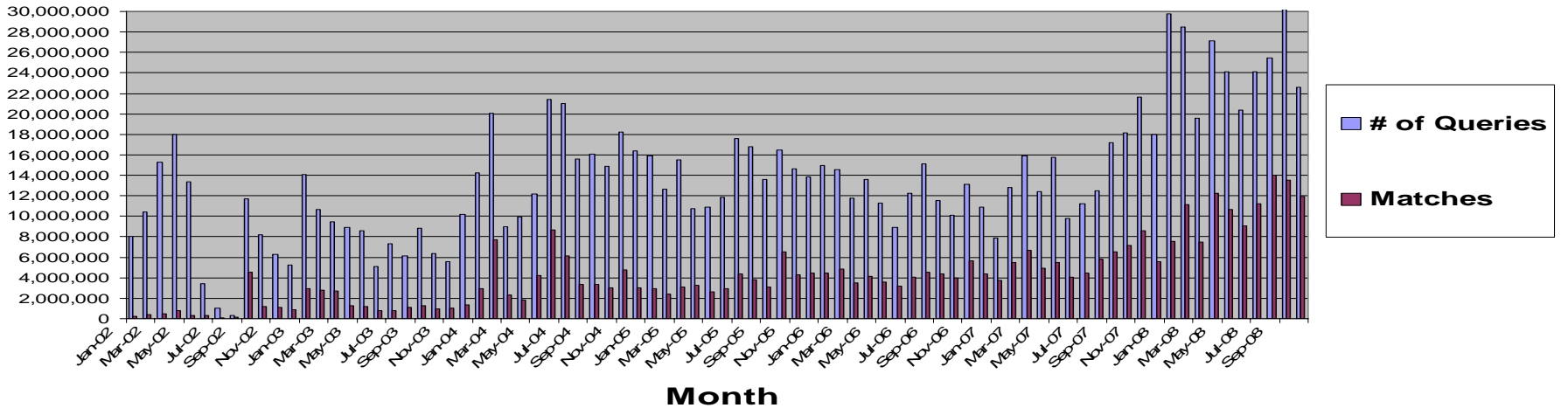
On top of these numbers ~20million/month resolutions done by search engines

CrossRef activity is stable

DOI Deposits



Queries



System performance

- Availability > 98.9%
- Query response times have slowed a bit (from 400msec to 850msec)
 - Prune and archive database data (early December)
 - Change transaction load per query (code change by the end of 2008)
- Deposit processing time still very good

	June	July	August	Sept	October
Less than 5 mn:	104330(75 %)	75293(87 %)	71503(84 %)	84785(61 %)	141473(91 %)
Less than 1 hr:	26164(19 %)	6044(7 %)	12081(14 %)	22006(15 %)	9404(6 %)
Less than 6 hr:	6673(4 %)	3540(4 %)	1120(1 %)	27886(20 %)	1493(0 %)
Less than 12 hr:	330(0 %)	626(0 %)	325(0 %)	614(0 %)	238(0 %)
Less than 18 hr:	205(0 %)	212(0 %)	5(0 %)	942(0 %)	200(0 %)
Less than 24 hr	0(0 %)	88(0 %)	0(0 %)	599(0 %)	297(0 %)
More than 24 hr:	0(0 %)	53(0 %)	0(0 %)	706(0 %)	1066(0 %)
Total deposits:	137703	85857	85034	137538	154221

Deposit statistics

➤ 84,520,393 cited-by links established
52,425,920 waiting to resolve

➤ DOI counts:

Number of Journals	21,481
Number of Books	72,798
Number of Conference Proceedings	14,288
Number of Journal DOIs	30,415,738
Number of Book DOIs	1,493,045
Number of Conference DOIs	1,812,762
Number of Components	167,430

➤ 11 million stored queries evaluated per month

System development

- Significant improvements, changes or notable problems
 - Multiple resolution (new)
 - Book/series title change – ISSN and ISBN (change)
 - Cited-by counts in query results (change)
 - Deposit logs being lost (bug)

- 10-12 minor bugs correct in last 12 months
 - A couple associated with significant changes mentioned above
 - ECT titles not included in author/article-title index
 - Stored query error when ISSN present and no title

- Ongoing issues
 - Problem processing large (>1.5Meg) deposit files
 - Obscure Java VM error (state=FLUSHED)

- System changes
 - Improved query matching for books
 - Integration of simple text queries
 - Better title management

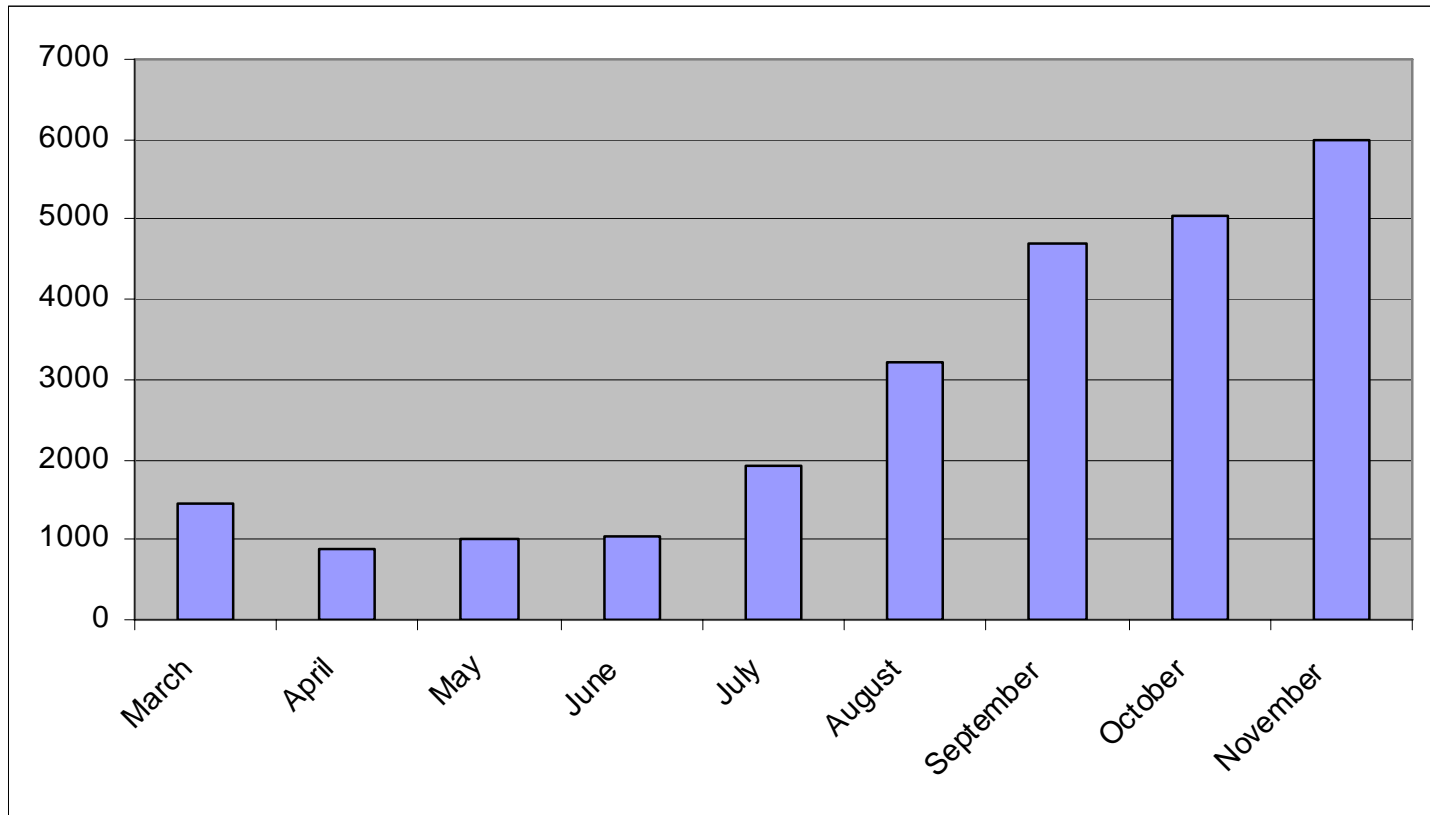
- Consolidated access to CrossRef reports

- Schematron reports (weekly email) which identify questionable metadata:
 - No first name, multiple spaces in surname, dashes in first page, all upper case titles ... etc

- Upcoming change (December 2008), allowed characters in a DOI
 - Per the Quality Committee, only use:
"a-z", "A-Z", "0-9" and "-. _ ; () /"

Issues to monitor

DOI Errors reported by end users



DOI Errors reported by end users

Since March 2008:

21,712 reported

10,135 fixed

7,215 expired

From: support@crossref.org [<mailto:support@crossref.org>]
Sent: Wednesday, November 12, 2008 2:49 PM
To: jstark@crossref.org
Subject: DOI issues for prefix 10.1111 for Nov 12, 2008

The attached .csv file contains problematic DOIs reported to CNRI and CrossRef by end users. CrossRef reviews reports to confirm that problems exist, then sends this report to members owning the DOI or prefix.

DOI errors are reported for a number of reasons:

- a DOI has been published but not deposited
- the published DOI does not match the deposited DOI
- a DOI has been deposited but does not resolve to the correct item
- the end user misinterpreted or mistyped a DOI (i.e. confusing 1 for l or 0 for O)

Please review the DOIs included in the report and deposit or correct DOIs as necessary.

--REPORT LEGEND-----

DOI = DOI as reported by the user

URL = referring page or URL where DOI was found (if available)

ISSUE TYPES

- 1 = DOI incorrect or not yet registered
- 2 = Registered URL points at error page
- 3 = DOI in CrossRef but not yet in Handle
- 4 = DOI in Handle but not in Crossref

REPORTED DATE = date problem was reported by the user

USER EMAIL = the user email is included if you wish to respond with corrections. If the user has reported an undeposited DOI, CrossRef will email the user once the DOI has been deposited.



1	DOI	URL	REPORTED-DATE	USER-EMAIL	USER-COMMENTS
2	10.1111/j.1365-2133.2008.08871.x	http://ezproxy.umassmed.edu/login	11/12/2008		
3	10.1111/j.1365-2141.2008.07084.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008	soniabeaini@hotmail.com	please need to read this review
4	10.1111/j.1365-2141.2008.07098.x	http://www.ncbi.nlm.nih.gov/pubmed/18	9/1/2008		
5	10.1111/j.1365-2141.2008.07126.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008	supertizio@fastwebnet.it	
6	10.1111/j.1365-2486.2007.01473.x	http://www10.tdnet.com/Search/Search	11/12/2008		
7	10.1111/j.1365-2516.2008.01910.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/6/2008		
8	10.1111/j.1365-2842.2008.01892.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008		
9	10.1111/j.1365-2923.2007.02947.x	http://www10.tdnet.com/Search/Search	11/12/2008		
10	10.1111/j.1365-3156.2008.02172.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008		
11	10.1111/j.1399-3038.2008.00822.x	http://www.scopus.com/scopus/record	11/12/2008	jauqueline@hotmail.com	I couldn't find the full text file.
12	10.1111/j.1399-6576.2007.01553.x		9/26/2008		
13	10.1111/j.1399-6576.2008.01601.x	http://www.ncbi.nlm.nih.gov/sites/entre	9/1/2008		
14	10.1111/j.1399-6576.2008.01721.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008		
15	10.1111/j.1399-6576.2008.01760.x	http://www.ncbi.nlm.nih.gov/pubmed/18	10/11/2008		
16	10.1111/j.1420-9101.2008.01627.x	http://www.doi.org/	11/12/2008	xavier.thibert-plante@ma	Actually the referring page is: htt
17	10.1111/j.1432-2277.2008.00785.x	http://www.ncbi.nlm.nih.gov/bibliosan.c	11/6/2008		
18	10.1111/j.1439-0264.2008.00899.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/7/2008		
19	10.1111/j.1439-0531.2007.01058.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008		
20	10.1111/j.1439-0531.2007.01058.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008	as.vanlaere@ulg.ac.be	
21	10.1111/j.1440-169X.2008.01019.x	http://www.scopus.com/scopus/results	11/11/2008		sharr_azni@yahoo.com
22	10.1111/j.1464-410X.2008.08124.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008		
23	10.1111/j.1468-0424.2008.00532x		11/12/2008		
24	10.1111/j.1472-4642.2007.00433.x	http://www.scopus.com/scopus/results	11/12/2008		
25	10.1111/j.1478-3231.2008.01867.x	http://www.ncbi.nlm.nih.gov/pubmed/18	10/16/2008		
26	10.1111/j.1523-1739.2008.01084.x	http://www.forestrynepal.org/journal/350	11/12/2008	zafeersaqib@yahoo.com	havent found the doc
27	10.1111/j.1526-100X.2008.00465.x	http://www3.interscience.wiley.com/rss	11/12/2008	mtupper-goebel@dep.nyc	I went through to add the rdss w
28	10.1111/j.1537-2995.2008.01948.x		11/12/2008		
29	10.1111/j.1600-0420.2007.01088.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008		
30	10.1111/j.1600-0560.2007.00760.x	http://www.ncbi.nlm.nih.gov/sites/entre	9/2/2008		
31	10.1111/j.1600-0838.2008.00857.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008		
32	10.1111/j.1610-0387.2008.06889.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008		
33	10.1111/j.1741-4520.2007.00175.x	http://www.ncbi.nlm.nih.gov/sites/entre	11/12/2008	cabo@med.uva.es	
34	10.1111/j.1743-6109.2007.00662.x	http://www.ncbi.nlm.nih.gov/pubmed/18	11/12/2008		

CrossRef's DOI Checker results

➤ Since September 19, 2008


- 3912 journal titles having 7,017,158 DOIs
- 100,286 where checked
- 78,021 passed
- 20,219 not confirmed
- 1376 HTTP problem
- 591 BAD

22.2%

http://www.crossref.org/06members/51depositor.html

Springer (Kluwer Academic Publishers - Biomedical Engineering Society (BMES))	1	3129		▶
Springer (Kluwer Academic Publishers)	840	1144899		▶
Journal	# DOIs	File Size	Last Crawl Date	
APOPTOSIS	1172	33889		
ASA Bulletin	22	661		
Acta Applicandae Mathematicae	1738	45297		
Acta Biotheoretica	1029	24925		2008-10-09
Acta Juridica Hungarica	166	4817		2008-09-26
Acta Linguistica Hungarica	219	6489		
Acta Mathematica Hungarica	2456	62676		
Administration and Policy in Mental Health	848	21907		2008-11-04
Adsorption	716	20013		
Advances in Computational Mathematics	650	17727		
Advances in Contraception	678	15564		
Advances in Health Sciences Education	456	13168		
Aerobiologia	947	23653		2008-10-07
African Archaeological Review	160	4604		
Agriculture an Human Values	60	1702		
Agriculture and Human Values	1137	28975		2008-11-02
Agroforestry Systems	1727	42927		
Agroforestry Systems (in cooperation with ICRAF)	132	5055		2008-10-21
Air and Space Law	95	2637		
Algebra and Logic	1794	42038		
Algebras and Representation	9	325		2008-09-19
Algebras and Representation Theory	300	8871		
American Journal of Community Psychology	1843	45778		
American Journal of Dance Therapy	436	10944		
Analog Integrated Circuits and Signal Processing	1539	42351		2008-10-15
Analysis Mathematica	724	17138		2008-10-16
Angiogenesis	376	10966		
Angiogenesis (incorporating Angiogenesis Research)	10	375		
Annals of Clinical Psychiatry	1185	33911		2008-10-17
Annals of Global Analysis and Geometry	781	20595		
Annals of Mathematics and Artificial Intelligence	849	22151		
Annals of Operations Research	2937	75860		2008-10-19
Annals of Software Engineering	205	5498		2008-10-18

<http://www.crossref.org/06members/51depositor.html>

Ovid Technologies (Wolters Kluwer) - Lippincott Williams & Wilkins		285	1003403	
Journal	# DOIs	File Size	Last Crawl Date	
AACN Advanced Critical Care	20	802		
AACN Clinical Issues Advanced Practice in Acute & Critical Care	85	3182		
AACN Clinical Issues Advanced Practice in Acute and Critical Care	729	26364	2008-10-13	
ACSM s Health & Fitness Journal	629	23132	2008-10-04	
AIDS	7997	288842		
AIDS Supplement	32	1222		
ASA Refresher Courses in Anesthesiology	133	4882		
ASAIO Journal	6884	261048		
Academic Medicine	16711	601057		
Addictive Disorders & Their Treatment	191	6964	2008-11-03	
Advances in Anatomic Pathology	1753	63216		
Advances in Skin & Wound Care	990	36204		
Adverse Drug Reaction Bulletin	207	7515		
Alcoholism Clinical and Experimental Research	9239	363359	2008-10-21	
Alzheimer Disease & Associated Disorders	1579	60224		
Alzheimer Disease and Associated Disorders	64	2401		
American Journal of Clinical Oncology	3653	132373		
American Journal of Clinical Oncology Cancer Clinical Trial	26	1050	2008-11-02	
American Journal of Clinical Oncology Cancer Clinical Trials	23	943		
American Journal of Dermatopathology	1329	47935		
American Journal of Forensic Medicine & Pathology	682	24660		
American Journal of Geriatric Psychiatry	1021	32744	2008-10-30	
American Journal of Physical Medicine & Rehabilitation	5011	180708		
American Journal of Surgical Pathology	1968	70941		
American Journal of Therapeutics	1213	43869	2008-09-25	
Anesthesia & Analgesia	25798	935935		



Wolters Kluwer Health - Article Landing Page - Mozilla Firefox


File Edit View History Bookmarks Tools Help del.icio.us

http://pt.wkhealth.com/pt/re/lwwgatev Google

Select a Wolters Kluwer Source

The article you have selected is available through multiple Wolters Kluwer Health sources.


Select your preferred full-text source by clicking one of the buttons below:



OvidSP
eduserv athens

Institutional subscribers and Athens users can access their full-text articles by clicking the OvidSP and Athens button below:

OvidSP & Athens >>



**Lippincott
Williams & Wilkins**

Society and individual subscribers can access their full-text articles by clicking the LWW Journals button below:

LWW Journals >>

Remember this selection in the future

Done

Computers in Physics is no longer being published. It was replaced in January 1999 by [Computing in Science and Engineering](#).

[[Previous](#) / [Next](#) Abstract | [Issue Table of Contents](#) | [Bottom of Page](#)]

Computers in Physics -- November 1993 -- Volume 7, Issue 6, pp. 701-709

[Order](#)


The DOM4 database system



Options for selected Articles View MyArticles

Choose an action

Select up to 20 articles at a time.

 YOUR CART

[P. C. van Haren](#)

FOM-Instituut voor Plasmafysica Rijnhuizen, Association Euratom-FOM, P.O. Box 1207, 3430 BE Nieuwegein, The Netherlands

(Received 10 March 1993; accepted 23 April 1993)

The DOM4 database system is designed to manage experimental bulk data, i.e., raw measurements, from large pulsed research devices such as tokamaks. Data containing all data from a single measuring point. All objects from an experimental pulse are stored in a single file, the so-called pulse file. For the Rijnhuizen Tokamak Project, the size of a typical pulse file is a few MBytes and such a file contains in the order of 800 objects. The DOM4 software is optimized for exploiting the peculiarities of its application field. The data acquisition takes place using a heterogeneous, distributed computer system, comprising DEC VAXes, workstations, and a variety of MC680x0 embedded systems. The data in a pulse file are commonly accessed following a nearly Write-Once-Read-Many scenario. During data acquisition cycle in the on-line phase of the experiment, the contents of the pulse file are rarely modified or deleted.

[doi:10.1063/1.168478](https://doi.org/10.1063/1.168478)

FACS: 89.80 +h. 06.50.Mk



Journal	# DOIs	File Size	Last Crawl Date
Artificial intelligence for engineering design analysis and manufacturing	308	9068	
Artificial intelligence for engineering design analysis and manufacturing	8	368	2008-10-04
AJS Review	433	12702	2008-09-24
Acta Numerica	47	1439	
Acta Numerica 2000	4	189	
Ageing and Society	960	27921	2008-09-30
American Journal of Alternative Agriculture	46	1176	
American Political Science Association	16	557	
American Political Science Review	760	22136	
Ancient Mesoamerica	384	11218	
Anglo-Saxon England	543	15828	
Animal Health Research Reviews	115	2859	2008-11-06
Animal Science	188	4229	2008-09-25
Annual Review of Applied Linguistics	137	4072	
Antarctic Science	1498	43558	
Applied Psychology	36	12615	
Arabic Science and Technology	1	1	
Archaeological Dialogues	1	1	
Architectural Research Quarterly	61	1864	2008-09-25
Austrian History Yearbook	49	1509	
Behavioral and Brain Sciences	4412	128112	
Behavioural and Cognitive Psychotherapy	548	15994	
Bilingualism	32	1003	
Bilingualism Language and Cognition	262	7696	
BioSocieties	126	3729	
Biofilms	72	2159	
Bird Conservation International	296	8678	
Breast Cancer Online	201	5912	
British Journal Of Nutrition	8457	202700	2008-10-09

DOI Checker being rejected!

Issues to monitor

Report for Publisher: American Physiologic Resolution failures

Resolutions by Owner and Prefix for last 12 months.

We continue to filter out known search engine crawlers and certain other single IP addresses that account for unreasonably heavy traffic if we have reason to s

Months	2007-07	2007-06	2007-05	2007-04	2007-03	2007-02	2007-01	2006-12	2006-11	2006-10	2006-09
By Owner	8,489	7,733	9,317	8,815	7,648	7,966	9,049	7,044	14,706	13,722	6,148
By Prefix	8,489	7,733	9,317	8,815	7,648	7,966	9,049	7,044	14,706	13,722	6,148

All members	13,632,997	13,628,017	16,853,427	14,670,125	15,594,390	13,290,774	13,165,808	15,609,517	15,825,541	15,593,696	12,272,886
-------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------

The overall resolution failure rate for all publishers is 3% and your failure rate is 5%. These failures may result from deposit errors by the publisher or from link end users. If your rate is significantly above zero or the overall average please investigate to determine the cause.

Resolutions attempts	8489
Resolved at Handle	7986
Handle Failures	478
Resolved at local link server	25
Unique DOIs attempted	4233
Unique DOIs resolved at handle	3942
Unique DOIs that failed at handle	283
Unique DOIs resolved at local link server	8

Resolution failures

➤ What causes this?

#4 A crawler trying to guess at DOIs

#3 Someone doing some crazy testing

#2 Having a terrible suffix that's hard to work with

#1 Not depositing DOIs that are made public!

Please help keep DOI links alive

Thank You!

www.crossref.org/help