

A Better Data Partnership

5 Keys to
Cleaner Data &
Fewer Problems

The Main Pieces

- Metadata

- DOI

 - DOI itself

 - Current URL

Most Common Issues

1. Missing Metadata
2. Title Transfers
3. Conflicting DOIs
4. Conflicting Titles
5. Unresolved DOIs

6. Education

Missing Metadata

- The fields most likely to cause conflict:

journal | author | volume | issue | page | year | article-title

- The more data missing, the greater the possibility of conflicts.

Missing Metadata Examples

- (examples taken from conflict reports)

author, volume, issue, page, year, title

MD: null, 3, null, null, 1953, null

MD: null, 10, 11, 878, 1918, null

MD: null, 172, 4372, 269, 1953, [Book Reviews]

Missing Metadata Journals

- 15,267 journals
- % journals >10% missing authors 24%
- % journals >10% missing titles: 11%
- % DOIs missing authors: 9%
- % DOIs missing titles: 7%

Missing Metadata Books

- 25,737 books
- % books >10% missing authors: 29%
- % books >10% missing titles: 51%
- % DOIs missing authors: 36%
- % DOIS missing titles: 15%

Missing Metadata Proceedings

- 9,272 proceedings
- % procs >10% missing authors: <1%
- % procs >10% missing titles: 1%
- % DOIs missing authors: <1%
- % DOIs missing titles: <1%

Status Web Page

- <http://www.crossref.org/06members/53status.html>

status

Status Page: Updated on Oct 26, 2006

MetaData Deposit

Total Records in Database	23,264,116
Total Prefixes	751
Number of Journals	15,267
Number of Books	25,737
Number of Conference Proceedings	9,272
Number of Journal DOIs	21,373,460
Number of Book DOIs	614,711
Number of Conference DOIs	1,220,807
Number of Components	55,130

Monthly Deposit Data

Month	Total Records Added	Total Current Deposits	Total BackFile Deposits	Total Records Updated
(2003)	3,482,748	1,012,848	2,469,900	3,040,216
(2004)	3,956,196	1,471,426	2,484,770	3,816,909
(2005)	4,521,578	1,499,224	3,022,354	2,105,898
Sep	278,999	138,551	140,448	148,018
Oct	265,821	118,960	146,861	142,125
Nov	282,826	142,601	140,225	183,435
Dec	304,174	141,428	162,746	371,810
Jan	294,762	159,768	134,994	333,381

Title Transfers

1. Name and prefix for both publishers.
2. Document from previous publisher relinquishing ownership.
3. Name of every journal being transferred.
4. Date the transfer should occur.
5. Contact email for both publishers.
6. If new URLs are known at the time of transfer...

10.1111/j.1574-6968.1999.tb13575.x	http://www.crossref.org/example1
10.1111/j.1574-6968.1999.tb13575.1	http://www.crossref.org/example2
10.1111/j.1574-6968.1999.tb13575.2	http://www.crossref.org/example3

Conflicting DOIs

- Not enough metadata given to distinguish DOIs
- Same data uploaded to different DOIs (can be same publisher or occur with title transfer)

Intentional Duplicates

- Errata
- Book Reviews
- News in Brief
- Notices
- Corrigendum
- Etc.

How to Differentiate

`<item_number type='sequence-number'> tag`

```
<journal_article publication_type="full_text">
  <titles>
    <title>Phys. Rev. A</title>
  </titles>
  <contributors>
    <person_name sequence="first" contributor_role="author">
      <given_name>Petr O.</given_name>
      <surname>Fedichev</surname>
    </person_name>
  <publication_date media_type="online">
    <month>04</month>
    <year>2004</year>
  </publication_date>
  <publisher_item>
    <item_number item_number_type="sequence-number">PhysRevA.69.049902</item_number>
  </publisher_item>
  <doi_data>
    <doi>10.1103/PhysRevA.69.049902</doi>
    <timestamp>20040412120604</timestamp>
    <resource>http://link.aps.org/doi/10.1103/PhysRevA.69.049902</resource>
  </doi_data>
</journal_article>
```

Conflicting DOIs - checking

- Review Conflict Report

→ <http://www.crossref.org/06members/59conflict.html>

- Combined vs individual reports

- # journal conflicts 37,337

(currently, only journal conflicts reported)

- Examples

1. Title Transfer
2. Duplicate Metadata – expected
3. Duplicate Metadata – not expected

Conflict Report

conflict report

Click the publisher below. A list of Journals will appear below the publisher name.

This page requires you to use a recent browser (Internet Explorer 5+ or Netscape Navigator 7.0)

last updated on Oct 23,2006

Name	PubData File	PubData Size	Journal Count	Total Conflicts
AAPG/Datapages	10.1306_conflicts.txt	74754347	4	3037
Akademiai Kiado RT	10.1556_conflicts.txt	1146	1	3
American Association for the Advancement of Science (AAAS)	10.1126_conflicts.txt	1277	1	4
American Association of Mental Retardation	10.1352_conflicts.txt	2243	1	5
American Chemical Society (ACS)	10.1021_conflicts.txt	874092	36	2595
American Fisheries Society	10.1577_conflicts.txt	7705	2	16
American Geophysical Union (AGU)	10.1029_conflicts.txt	3236	3	10
American Psychiatric Publishing	10.1176_conflicts.txt	3386	1	10
American Psychological Association (APA)	10.1037_conflicts.txt	101223	18	252

Journal	# DOIs	File Size
American Psychologist	18	7047
Analysis of behavior (continued)	1	272
Consulting Psychology Journal Practice and Research	12	1596
Cultural Diversity & Ethnic Minority Psychology	39	15535
Developmental Psychology	1	422
Emotion	9	3339

Conflict Report #1

conflict #

Created: 2006-10-12 19:31:19.0

ConfID: 306595

CauseID: 291511765

OtherID: 1158104,

JT: Journal of Communication

MD: Jones, 52 ,3,499,2002,Research on the Relationship Between
Verbal and Nonverbal Communication: Emerging Integrations

DOI: [10.1093/joc/52.3.499](https://doi.org/10.1093/joc/52.3.499) (306595-null)

DOI: [10.1111/j.1460-2466.2002.tb02559.x](https://doi.org/10.1111/j.1460-2466.2002.tb02559.x) (306595-null)

submission #

journal title

metadata

DOIs in conflict

Conflict Report #2

```
=====
Created: 2005-08-01 12:11:59.0
ConfID: 199052
CauseID: 201125767
OtherID:
JT: Nature
MD: null, 245 ,5422,226,1973,Erratum
DOI: 10.1038/245226b0 (199052-null )
DOI: 10.1038/245226c0 (199052-null )
=====
```

Conflict Report #3

=====

Created: 2004-02-04 14:46:59.0

ConfID: 62525

CauseID: 49516680

OtherID: 29217552,

JT: Journal of Applied School Psychology

MD: Gravois, 19 ,1,5,2002,A Multi-Dimensional Framework for
Evaluation of Instructional Consultation Teams

DOI: 10.1300/J370v19n01_02 (62525-null)

DOI: 10.1300/J008v19n01_02 (62525-null)

=====

DOI History



The screenshot shows the crossref website interface. At the top left is the crossref logo. To the right, it says "Software developed by" followed by a small logo. Below the logo is a horizontal navigation bar with buttons for "Home", "Users", "Submissions", "Queries", "Reports", and "Metadata Admin". The "Reports" button is highlighted. Below this is a sub-navigation bar with buttons for "Query Report", "Metadata Report", "Monthly Report", and "Misc. Reports". The "Misc. Reports" button is highlighted. The main content area contains the text "Please provide a DOI to view its history". Below this is a text input field containing the DOI "10.1111/j.1460-2466.2002.tb02559.x" and a "Show" button. Below the input field are two buttons: "Download MDDB.XML" and "Download MDDB.XML (version 2.0)".

crossref Software developed by 

Home Users Submissions Queries **Reports** Metadata Admin

Query Report Metadata Report Monthly Report **Misc. Reports**

Please provide a DOI to view its history

DOI:

DOI History (cont'd)



Software developed by  atypon

[Home](#)

[Users](#)

[Submissions](#)

[Queries](#)





[Reports](#)

[Metadata Admin](#)

[Help](#)

DOI History Report for 10.1111/j.1460-2466.2002.tb02559.x

Date	Event	Detail	By Whom
13-Oct-06 12:08:39	Add Back Year	Submission: 291511765	blackwell
24-Oct-06 11:35:39	Marked as Primary	Conflict: 306595	Super Admin Group

Legend: =Content =Note =Detail =Save

Correcting Conflicts

- Send us an email instructing how to resolve the conflict
 - Make one DOI prime, all others into aliases

Primary DOI	DOI to be aliased to primary	Conflict IDs
10.1016/j.clindermatol.2003.11.001	10.1016/S0738-081X(03)00103-2	104155
10.1016/j.clindermatol.2003.12.026	10.1016/S0738-081X(03)00150-0	104157
10.1016/j.clindermatol.2003.12.031	10.1016/S0738-081X(03)00153-6	104159

- Resolve the conflict without doing anything

Conflict ID
101115
103044
103048

- Resend in one of the DOIs with new (different) metadata
- Login to doi.crossref.org and resolve them yourself
- Upload your own file to resolve the conflicts

Conflicting Titles

- Multiple ISSNs in database
 - Title changes, same ISSN
 - Title ownership not resolved in db
 - Typo or variation in title data

Conflicting Titles (cont'd)

- These are not the same:
 - The Red, White, and Blue
 - The Red, White, & Blue
 - The Red, White, & Blue
 - Red, White, and Blue
 - Red, White and Blue

Conflicting Titles (cont'd)

- Recently emailed 102 publishers
- 42 responded with corrections

Unresolved DOI Discovery

- doierror report –
 - end users complaining they can't find resolve the DOI
- DOI Crawler –
 - CrossRef looking for broken DOIs

DOI Error Page



Error - DOI Naming Authority [DOI] Not Found

The DOI you requested --

DOI

-- cannot be found in the Handle System.

Possible reasons for the error are:

- the DOI has not been created
- the DOI is cited incorrectly in your source
- the DOI does not resolve due to a system problem

If you believe you have requested a DOI that should be found, you may report this error to doi-help@doi.org. Please include information regarding where you found the DOI in your message: <http://www.google.com/search?hl=en&q=doi+error>

Unresolved DOIs

- Incorrect URL given
- DOI was never officially registered
- DOI transferred without updating URL
- Linking service pointing to wrong place
- Web site is down

Summary

- Review your submission logs and conflict reports
- Make sure key data (such as titles) are exact
- Include all possible metadata
- Help keep our contact records up-to-date

CrossRef Resources

- Dealing with Conflicts

http://www.crossref.org/02publishers/how_to_faq.html#Anchor-Dealin-60673

- Special characters in deposits and queries

http://www.crossref.org/02publishers/how_to_faq.html#Anchor-Deletin-8937

- DOI Ownership Transfer Policy

<http://www.crossref.org/06members/61ownership.html>

- Common Error Messages

http://www.crossref.org/02publishers/24upload_spec.html#upload

- Querying

http://www.crossref.org/02publishers/25query_spec.html

Ask Questions

I'm here to help!

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