

Preserving Electronic Journals/Serials

Office of Strategic Initiatives
Repository Development Center



Journal preservation.....

2



eJournal Preservation at the Library

- Efforts began in 2000 to start preserving electronic serials/journals that publishers would send to library through the copyright mandatory deposit demand mechanism.
- A new interim regulation was published in Feb 2010 allowing the Library to demand the electronic journals from publishers.
- More and more publishers were starting to publish electronically; some publishers are becoming paperless by only publishing electronic-only journals.

eDeposit and DMS

- The eDeposit program led to a library wide effort across various divisions: Copyright, Library Services, ITS, OSI, and the Law Library.
- The eDeposit program led to the development of a new System -- DMS -- and Integration of DMS with eCO (electronic Copyright System), CTS (Content Transfer Service) and the Voyager ILS (Integrated Library System)

DMS

LIBRARY OF CONGRESS eDeposit *UAT Master* Welcome, **Anupama**. [Documentation](#) / [Help](#) [Log out](#)

Site administration

Recent Deliveries	
1-767088156-0002	6 days, 9 hours (unassigned)
1-766573785-0008	1 week, 2 days (unassigned)
1-764203808-0009	1 week, 2 days (unassigned)
1-486063768-0011	1 week, 4 days (unassigned)
1-767848478-0004	1 week, 4 days (unassigned)
1-765678024-0004	2 weeks, 3 days (unassigned)
1-765677900-0005	2 weeks, 3 days (unassigned)
1-766573785-0007	2 weeks, 3 days (unassigned)

My Assigned Tasks
My Deliveries
You have no assigned deliveries.

Core

- Publishers** [Change](#)
- Journals** [Change](#)
- Service Requests** [Change](#)
- Deliveries** [Change](#)
- Issues** [Change](#)
- Articles** [Change](#)
- Files** [Change](#)
- Authors** [Change](#)
- Cases** [Change](#)
- Statuses** [Change](#)
- Volumes** [Change](#)
- ITs**

Done | Slide 5 of 5 | Default Design | Internet | 100%

Start | Inbox - Microsoft Outlook | 1 Reminder | Microsoft PowerPoint - [...] | eDeposit | Site admin... | 9:44 AM

DMS Stacks Viewer for eJournals

The screenshot shows a Windows Internet Explorer browser window displaying the DMS Stacks Viewer for eJournals. The address bar shows the URL <https://dms.loc.gov/stacks/ejournal/102/>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The Favorites bar shows several sites, including NDSA Storage Report, CIP & ONIX, and the current page. The browser's toolbar includes icons for home, search, print, and other functions. The main content area displays the Library of Congress logo and the title "ACM journal of experimental algorithmics". Below the title, the ISSN (1084-6654) and publisher (Association for Computing Machinery) are listed. The volume number is 13, and a link to the PDF file is provided. The article title is "A Backtracking-Based Algorithm for Hypertree Decomposition" by Georg Gottlob and Marko Samer. The abstract discusses hypertree decompositions of hypergraphs and their application to NP-hard decision and computation problems. The categories and subject descriptors are listed at the bottom of the article. The browser's taskbar shows several open applications, including the Start menu, Internet Explorer, and several Microsoft Office Word documents. The system tray shows the time as 8:56 AM.

ACM journal of experimental algorithmics | Stacks | Library of Congress - Windows Internet Explorer

https://dms.loc.gov/stacks/ejournal/102/

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NDSA Storage Report: Refle... CIP & ONIX: The Future of B... ACM journal of experime... x

LOC Stacks: eJournals Admin About Stacks

LIBRARY OF CONGRESS

eJournals | Stacks

ACM journal of experimental algorithmics

ISSN: 1084-6654
Publisher: Association for Computing Machinery

Volume 13

.PDF File

1 / 19 64.9%

Tools Sign Comment

1.1

A Backtracking-Based Algorithm for Hypertree Decomposition

GEORG GOTTLÖB
University of Oxford
and
MARKO SAMER
University of Durham

Hypertree decompositions of hypergraphs are a generalization of tree decompositions of graphs. The corresponding hypertree-width is a measure for the acyclicity and therefore an indicator for the tractability of the associated computation problem. Several NP-hard decision and computation problems are known to be tractable on instances whose structure is represented by hypergraphs of bounded hypertree-width. Roughly speaking, the smaller the hypertree-width, the faster the computation problem can be solved. In this paper, we present the new backtracking-based algorithm *det-k-decomp* for computing hypertree decompositions of small width. Our benchmark evaluations have shown that *det-k-decomp* significantly outperforms *opt-k-decomp*, the only exact hypertree decomposition algorithm so far. Even compared to the best heuristic algorithm, we obtained competitive results as long as the hypergraphs are sufficiently simple.

Categories and Subject Descriptors: F.2.2 [Analysis of Algorithms and Problem Complexity]: Nonnumerical Algorithms and Problems—Computations on discrete structures; G.2.1 [Discrete Mathematics]: Combinatorics—Combinatorial algorithms; G.2.2 [Discrete Mathematics]: Graph Theory—Hypergraphs, Trees; I.2.8 [Artificial Intelligence]: Problem Solving, Control Methods and Search. *Backtracking; heuristic methods.*

« Previous File | Next File » Press [esc] to close

data/jea-v13-15/data/1412228/a1_6-bar-noy.pdf
data/jea-v13-15/data/1412228/a1_7-larsson.pdf

Local intranet 100%

Start 6 Micr... ACM jo... OSI- ITS... Window... 3 Micr... 2 Ado... 2 Pidgin 2 Wind... 8:56 AM

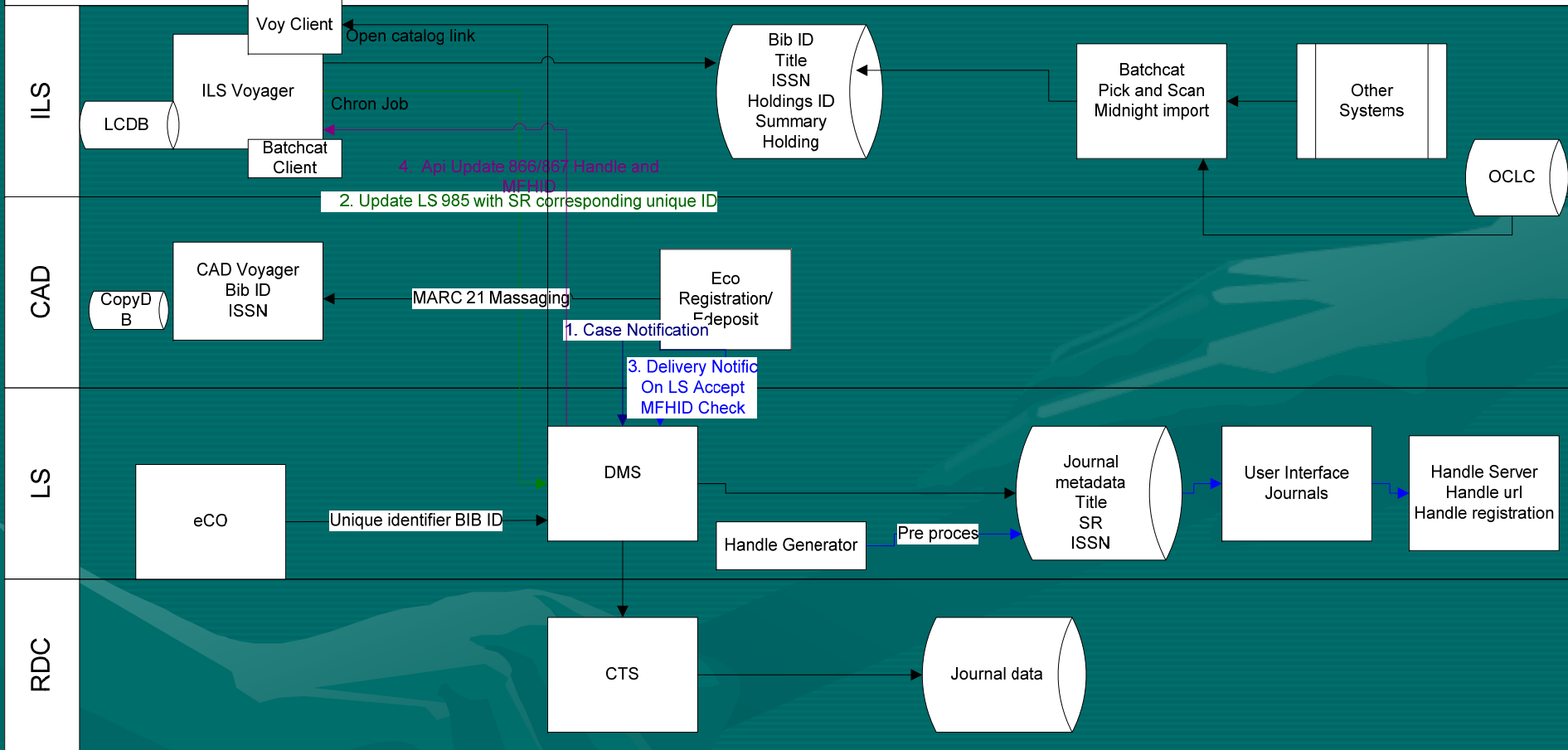
Complex Business WorkFlow

DMS

The DMS system was designed to manage configuration, workflow, access, and the steps within the DMS necessary to view, assign and edit metadata to, and accept or reject a delivery in compliance with a Copyright demand.

Automated End to End Flow

ILS DMS System Interaction Diagram

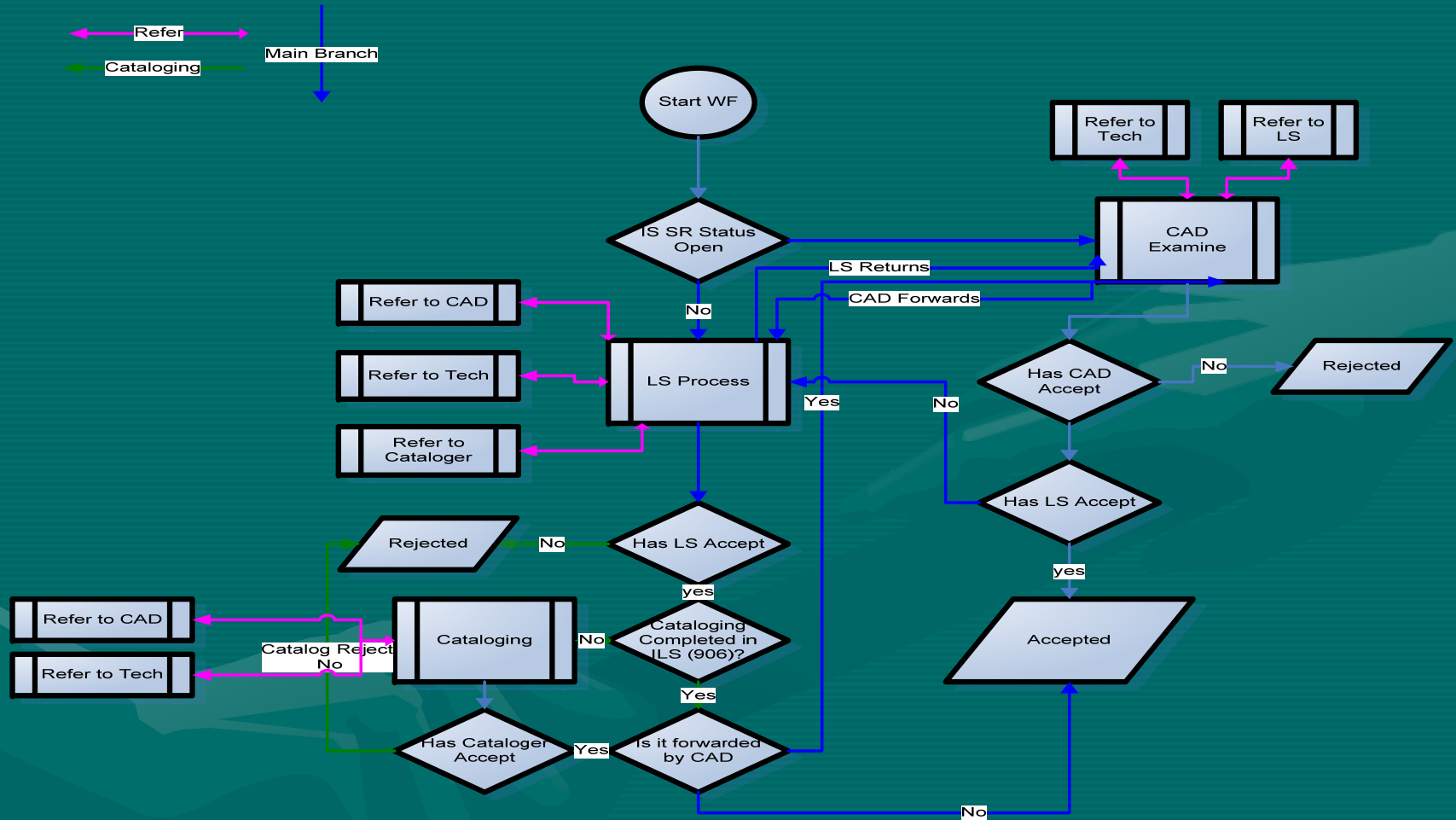


Note Summary Holding Generator is out of scope of this Release

eDeposit 3

Edeposit 3 Workflow

Wednesday, April 03, 2013



Facts/Challenges on Metadata Extraction for eJournals

- Lack of common descriptive metadata
- Lack of structural metadata
- Poor data quality
- Continuous publication model
- Learning curve

For further details on this please contact Tong Wang at twan@loc.gov

DMS Demo

by Laura Graham

Thanks

- Questions ?
- Our Contact Info
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- lgrah@loc.gov