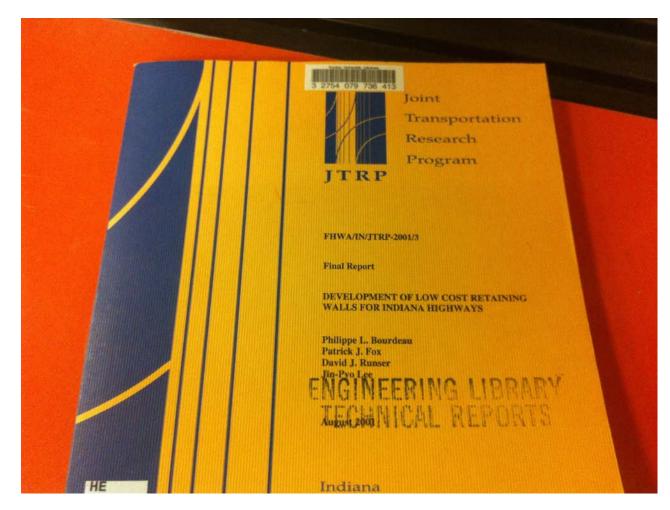
The Joint Transportation Research Program & Purdue Library Publishing Services

Presentation at the March 2011 Road School West Lafayette, Indiana

Paul Bracke Associate Dean, Purdue University Libraries Mark Newton Assistant Professor, Purdue University Libraries Charles Watkinson Director, Purdue University Press

Technical Report Publishing (the old way)



Moving to Digital JTRP Reports

- Looking at the library's collection today
- Looking Backward: Building a Retrospective Archive of JTRP Reports
- Looking Forward: Establishing Publishing Procedures for New Reports

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JOINT TRANSPORTATION RESEARCH PROGRAM

Technical Reports from 2008

FHWA/IN/JTRP-2008/06, Assessment of Axially-Loaded Pile Dynmaic Design Methods and Review of INDOT Axially-Loaded Design Procedure, Dimitrios Loukidis, Rodrigo Salgado, and Grace Abou-Jaoude

FHWA/IN/JTRP-2008/09, <u>Traffic Signal System Real Time Performance Measures</u>, Christopher M. Day, Edward J. Smaglik, Darcy M. Bullock, and James R. Sturdevant

FHWA/IN/JTRP-2008/11, Earthquake Resistance of Integral Bridges, Robert J. Frosch, Michael E. Kreger, and Aaron M. Talbott

FHWA/IN/JTRP-2008/12, <u>Performance-Based Contracting for Highway Preservation and Maintenance</u>, Bob G. McCullouch, Kumares C. Sinha, and Panagiotis Anastasopoulos Anastasopoulos

http://docs.lib.purdue.edu/jtrp/



JOINT TRANSPORTATION RESEARCH PROGRAM

Evaluation of the Cost-Effectiveness of Pavement Surface Maintenance Activities

<u>Ibrahim Moussa Mouaket</u> <u>Abdullah Al-Mansour</u>

Kumares C. Sinha

Date of Submission

1-1-1990

Report Number

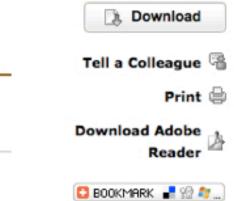
FHWA/IN/JHRP-90/12

Keywords

cost-effectiveness evaluation, surface routine maintenance, chip and sand seal coating, life cycle costing

Abstract

This study covers pavement surface maintenance on three surface types: rigid, flexible and composite (asphalt overlay on rigid pavement). It addresses 3 main issues as follows: 1) Do routine maintenance activities make a difference in terms of pavement serviceability? If yes, how much? 2)



Uploading Reports

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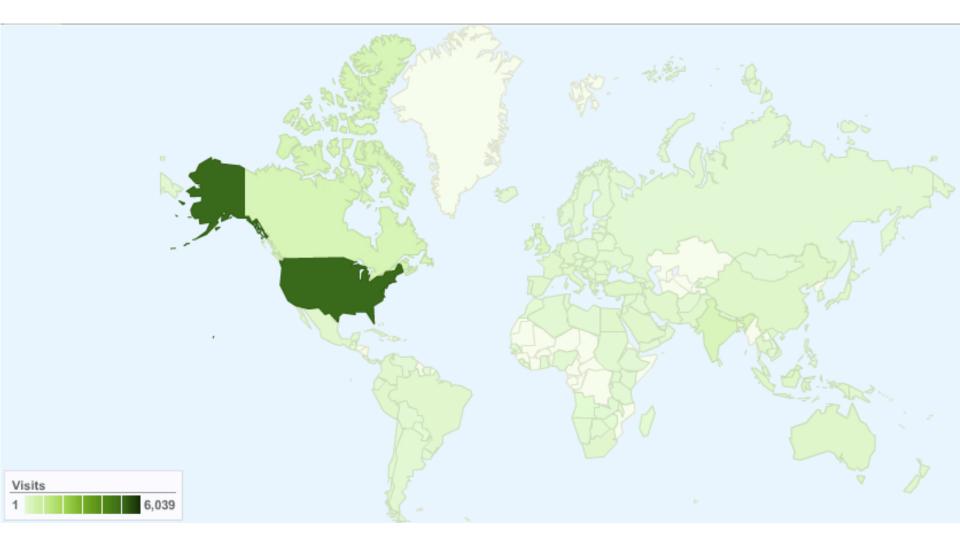
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<u>chnical Reports</u> upload XML upload Excel revise Excel cal Report details w Technical Report	Title: Life and Cost Comparison of Three Rehabilitation Techniques on I-65 Between SR-2 and SR-114 Authors: Sedat Gulen, John Weaver, Samy Noureldin Last Event: Revision uploaded (Mon Jan 4 2010) Walting for Administrator: No + Locked by Administrator: No + Administrator: No administrator assigned Manuscript: #1826											
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istrator report	subject to reflection crackin trucks. Concrete overlays h relatively, limited compared	halt (HMA) overlays on top of o g related to the movement of the ave the advantage of being rut to HMA overlays. In addition, of red closing the road to traffic for	ne old concrete slab. In addi resistant compared to HMA doubts are often raised abou	tion, these overlays may also to overlays. However, the current at the cost effectiveness of these	be vulnerable to rutting when a at national experience of the p	subjected to large traffic volum performance of these overlays	nes of I is still,					
	This report presents an eva	luation of three concrete paver	ment rehabilitation technique	es employed on interstate high	way I – 65;							

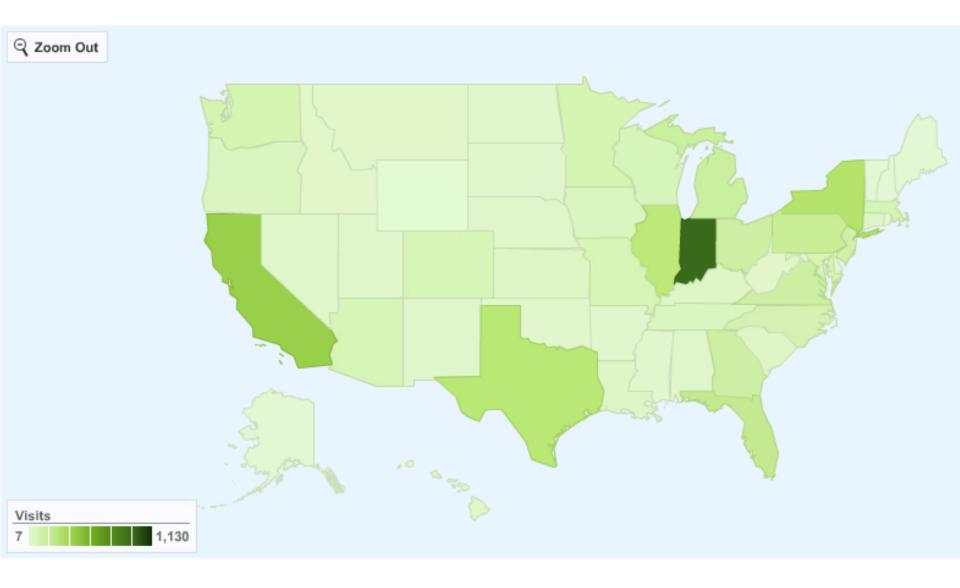
JTRP Report Usage

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- 360 reports in the current collection
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- Top document downloaded over 7,900 times
- Median of 290 downloads per report
- 30 reports with over 1,000 downloads
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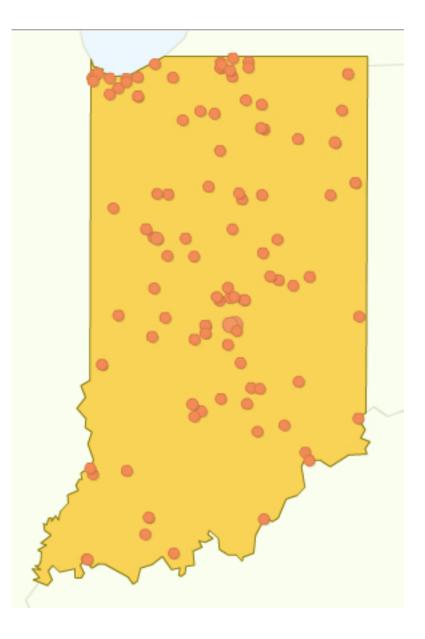
Google Analytics -> Global Access



National Reach



Access in Indiana



Google Analytics / Traffic Sources

Top Traffic Sources

Sources	Visits	% visits	Keywords	Visits	% visits
google (organic)	8,060	74.27%	dynamic cone penetration test	301	3.31%
(direct) ((none))	1,089	10.04%	dcpt	75	0.82%
yahoo (organic)	467	4.30%	dynamic cone penetration	56	0.62%
bing (organic)	252	2.32%	dynamic cone penetrometer	54	0.59%
search (organic)	99	0.91%	crack and seat	46	0.51%

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[CITATION] Final Report: SPR-2201, Real-Time Determination of Soil Type, Water Content, and Density Using Electromagnetics, FHWA/JTRP VP Drevich, CP Lin, Q Yi, J Lovell - 2001 - IN-2000/20 <u>Cited by 3</u> - <u>Related articles</u>	
[PDF] Effect of fine aggregate angularity on asphalt mixture performance C Lee, TD White, TR West - Federal Highway Administration,, 1999 Cocs.lib.purdue.edu http://docs.lib.purdue.edu/jtrp/104 Page 2. JOINT TRANSPORTATION RESEARCH PROGRAM FHWA/IN/JTRP-98/20 Final Report Page 3. Final Report FHWA/INDOT/JTRP-98/20 EFFECT OF FINE AGGREGATE ANGULARITY ON ASPHALT MIXTURE PERFORMANCE by Cited by 7 - Related articles - All 3 versions	<u>purdue.edu</u> (PDF)
[PDF] The effectiveness of maintenance and its impact on capital expenditures S Labi, KC Sinha - JTRP Final Report, FHWA/IN/JTRP-2002/27, docs.lib.purdue.edu 3. Recipient's Catalog No. FHWA/IN/JTRP-2002/27 4. Title and Subtitle THE EFFECTIVENESS OF MAINTENANCE AND ITS IMPACT ON CAPITAL EXPENDITURES 7. Author(s) Samuel Labi and Kumares Sinha 8. Performing Organization Report No. FHWA/IN/JTRP-2002/27 Cited by 10 - Related articles - All 3 versions	<u>purdue.edu</u> [PDF]
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A model for the mechanics of jointed rocks

RE Goodman, RL Taylor, TL Brekke - J. of Soil Mechanics and ..., 1968 - pubsindex.trb.org ... Behavior; Classification; Deformation curve; Discontinuity; Dislocation (Geology); Failure; Finite element method; Finite elements; Joint; Jointing of rock; Joints (Engineering); Mathematical models; Matrices (Mathematics); Mechanics; Models ... Transportation Research Board. ... Cited by 740 - Related articles - Cached - All 2 versions

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Sources, Measurements, and Effects of Segregated Hot Mix Asphalt Pavement RC Williams, G Duncan, T White - ... Transportation Research ..., 1996 docs.lib.purdue.edu There are several factors that lead to segregation. Segregation can occur during stockpiling and handling of aggregate and during mixing, storage, transport and lay down of the asphalt mixture. Sometimes segregation may result from a single source or from a combination of ... purdue.edu [PDF]

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Looking Backward

Why Digitize?

- Enhance *access* to important resources
 - Accessible wherever there is a web browser and internet connection
 - Integrated into research collections and search engines (e.g., Google Scholar)
- *Preservation* of at-risk materials
 - Create digital surrogates for materials
 - Reduce handling and wear & tear on print

Steps Toward Digital Collections



Metadata and Indexing

- Descriptive information about each individual report
 - Author(s), Title, Report Number, Data of Publication, Keywords, etc.
- Enhances findability of reports
- DOIs
- Name Authority

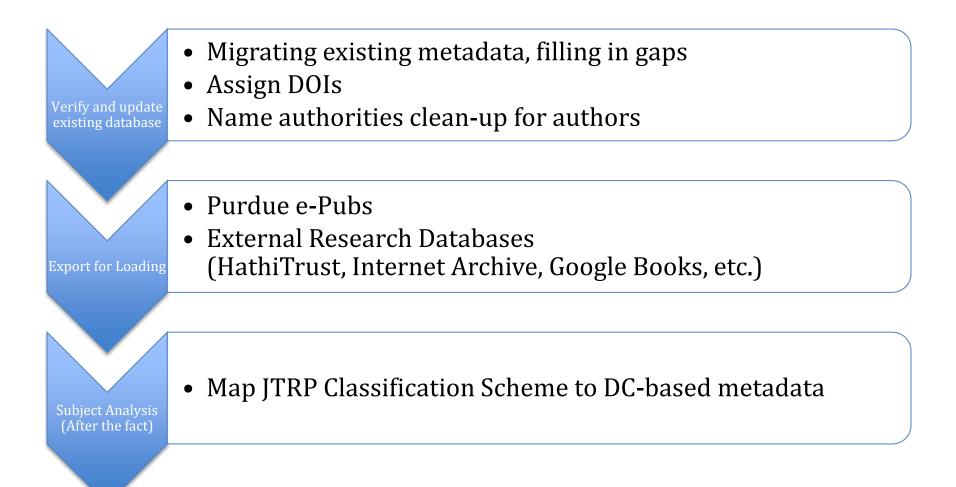
DOIs

- DOI = Digital Object Identifier
- Publishing industry standard for creating unique, persistent identifiers for content
- Used for:
 - Citation doi:10.3141/1634-17
 - Persistent link
 (<u>http://dx.doi.org/10.3141/1634-17</u>)
 - Dynamically linking content

Name Authority

- Practice of using consistent forms of names in indexing
- Allows for consistent retrieval of all works by an author
- For example:
 - John Smith, John M. Smith, J. Smith, JM Smith
 - Selecting one form and consistently using it enables consistent retrieval

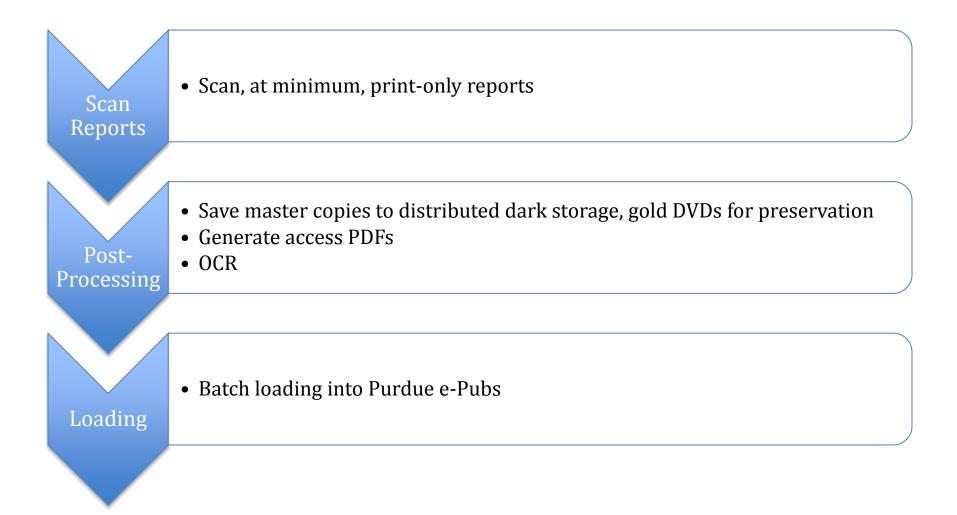
Metadata and Indexing Steps



Scanning

- Scanned to archival standards, following best practices for long-term preservation
 - High resolution TIFF master (Preservation, Print-on-Demand)
 - Converted to PDF for dissemination
- All scans go through OCR to generate full-text transcript and enable full-text search
- Issues:
 - Paper Quality
 - Print Quality
 - Photographic Inserts
 - Oversized Inserts (e.g., maps)

Scanning and Loading

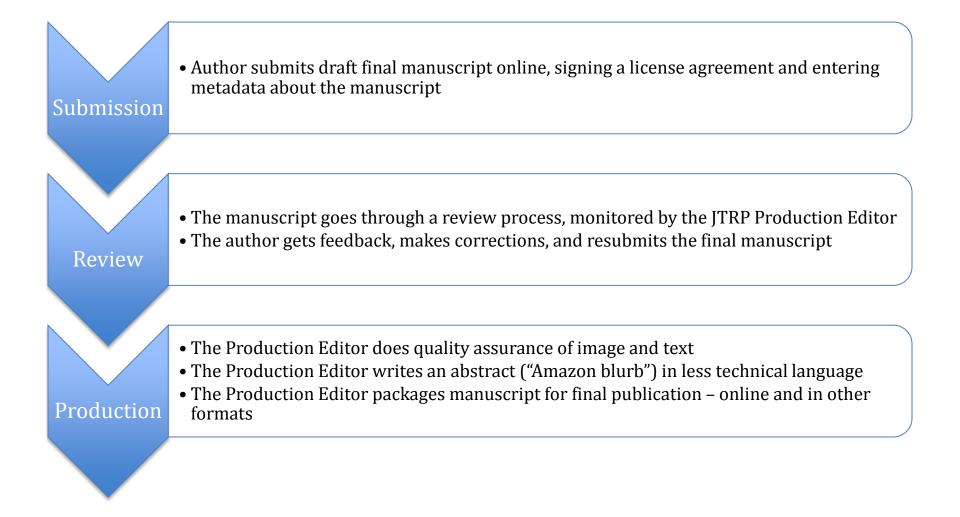


Dissemination

- JTRP Reports would be available to the public
 - As a browsable and searchable collection in Purdue e-Pubs
 - Through Google Scholar
- They could also be made available
 - Transparently through through the JTRP website, or other websites
 - In other research databases (e.g., Internet Archive, HathiTrust)
 - As print-on-demand through Amazon

Looking Forward

Publishing Workflow



Submission

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Before you begin, please be sure you have the following information at hand:

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- (e.g., Microsoft Word)
- A Technical Summary (Word template available here)
- The project title
- The full names and institutional affiliations of the authors
- An abstract of about 250 words
- A list of descriptive keywords
- The project SPR number

The upload process consists of the following steps:

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- 2. Enter information collected in the steps above
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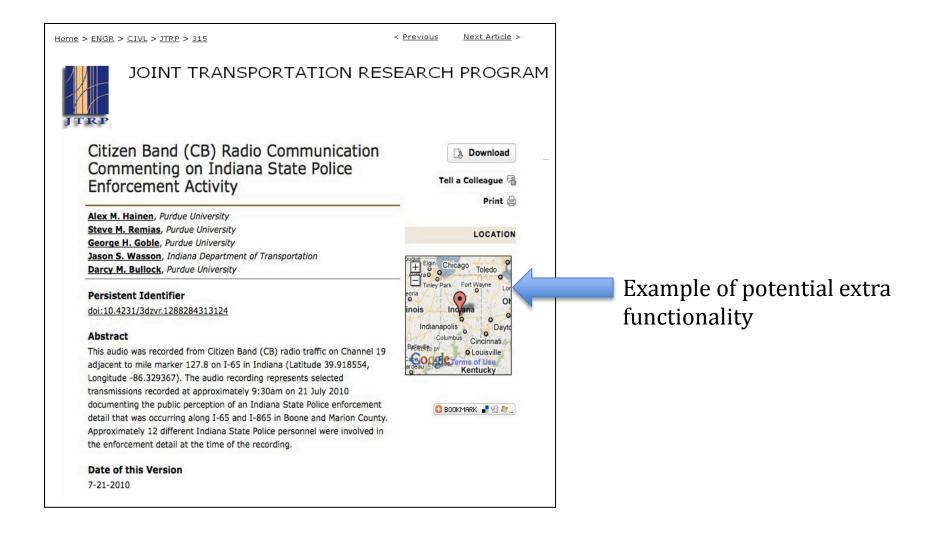
Review

▼ <u>ID</u>	Author	Title	Last Event	Date of Last Event	Waiting for Editor	Type Locked by Editor	Issue	Editor	Submitted	Reminder
1182		Call: Research on Current Deve	Editor assigned	Mon Jul 12 2010	•	Article	Assign	Gilroy	2010-07-12	
1181	Grainne O'Donoghue	Problem Based Learning in prof	Initial submission	Wed Jul 7 2010	•	Article	Assign	Assign	2010-07-07	
1180	Marjahan Begum	Book Review: Research on PBL P	Editor assigned	Tue Jul 6 2010		Article	Assign	Gilroy	2010-07-06	
1179	Brent K. Jesiek Ph.D.	Guest Editor's Introduction	Editor assigned	Tue Jul 6 2010		Article	Assign	Gilroy	2010-07-06	
1178	Mike Burns	Navigating the Change Process:	Major revisions required	Tue Jul 6 2010		Article	Assign	Assign	2010-06-14	
1176	Judith C. Williams	Do Students' Observations Of T	Review completed	Mon Jul 12 2010	•	Article	Assign	Assign	2010-06-01	
1175	Christina De Simone	Problem-Based Learning in Teac	Review completed	Tue Jul 20 2010	•	Article	Assign	Assign	2010-05-31	
1170	Anila Asghar Dr	Supporting STEM Education in S	Major revisions required	Fri Jun 4 2010		Article	Assign	Assign	2010-04-16	
1166	Päivi Hakkarainen	Promoting Meaningful Learning	Editor assigned	Mon Apr 19 2010	•	Article	Assign	Gilroy	2010-03-27	
1142	Kacey D. Beddoes	Identifying Opportunities for	Editor assigned	Tue Jun 29 2010	•	Article	Assign	Gilroy	2009-10-16	
1135	Nachamma Sockalingam	Characteristics of Problems fo	Minor revisions requested	Wed Jun 2 2010		Article	Assign	Assign	2009-09-01	
1134	Lyanda Vermeulen	Influence of Different Learnin	Major revisions required	Sun Jan 24 2010		Article	Assign	Assign	2009-08-12	
1125	Jennifer Turns	I thought this was going to be	Editor assigned	Mon Jul 12 2010	•	Article	Assign	Gilroy	2009-07-17	
1120	Xun Ge	An Investigation of an Open-So	Editor assigned	Tue Jun 29 2010		Article	Assign	Gilroy	2009-07-16	
1103	Olga Pierrakos	Understanding Undergraduate Re	Editor assigned	Tue Jun 29 2010	•	Article	Assign	Gilroy	2009-07-01	
1091	Christopher Mong	Editorial Board and Reviewer I	Editor assigned	Sun Jan 11 2009		Article	Assign	Gilroy	2009-01-11	

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Free Availability Online



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 - Scanning and Indexing older reports
 - Implementing publishing workflows in Purdue e-Pubs for new reports
- **Impact:** Increased, measurable exposure for JTRP reports by
 - Providing exposure in venues ranging from Google Scholar to Amazon.com
 - Integrating with publishing industry infrastructure through the use of ISBNs and DOIs

Thank You

Questions?

Project Contact: Mark Newton, newton@purdue.edu