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Preservation Policies of the Purdue University Research Repository (PURR)

Lisa Zilinski
Purdue University, ldz@andrew.cmu.edu

PRESERVATION POLICIES OF THE PURDUE UNIVERSITY RESEARCH REPOSITORY (PURR)

[PANEL] TRANSFORMING THE DATA LANDSCAPE: CONNECTING DATA, POLICIES, AND COMMUNITIES

Lisa Zilinski **@l_zilinski**
Data Specialist, Assistant Professor of Library Science, Purdue University

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CONNECTING COLLECTIONS, CULTURES, AND COMMUNITIES

77TH ASIS&T ANNUAL MEETING
October 31 – November 5, 2014
Sheraton Seattle Hotel, Seattle, WA

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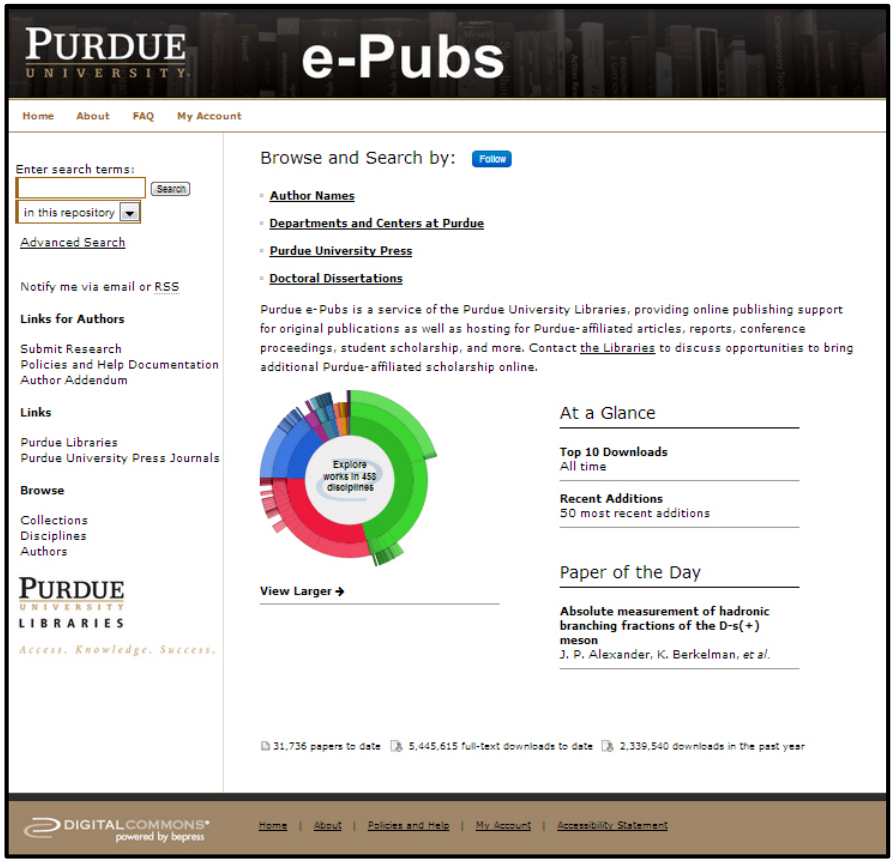
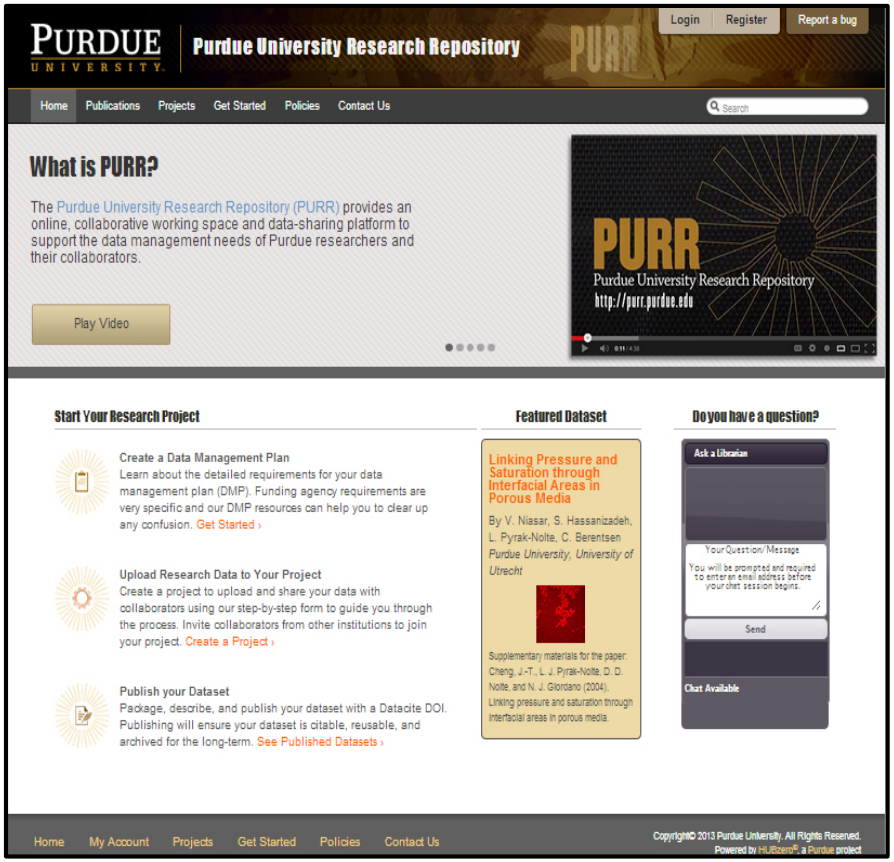
A SERVICE MODEL OF COLLABORATION

Purdue e-Pubs and the Purdue University Research Repository (PURR)

Publications



Data



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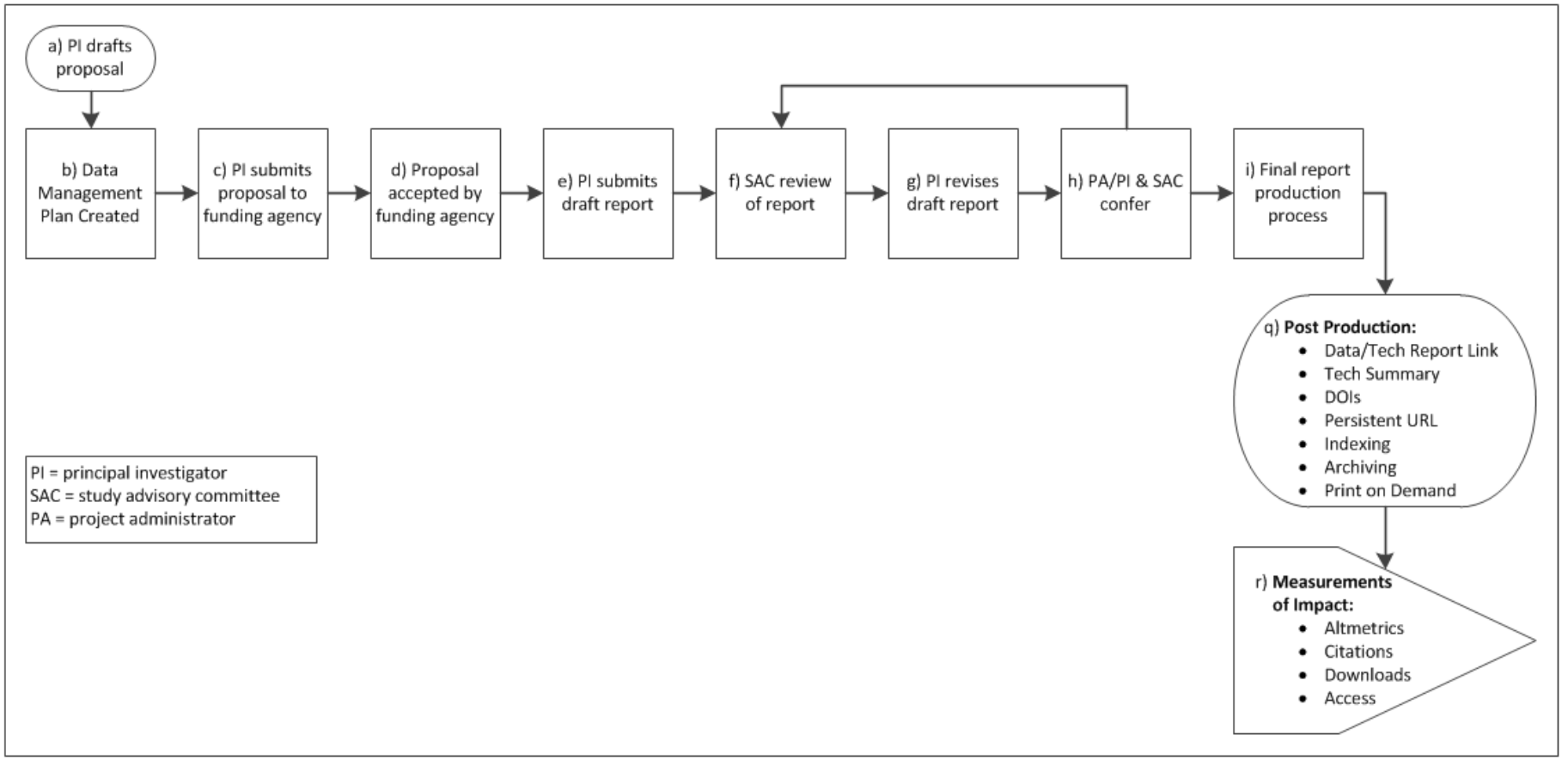
TRADITIONAL SCHOLARLY PUBLICATIONS

PURDUE UNIVERSITY PRESS/PURDUE E-PUBS/JTRP



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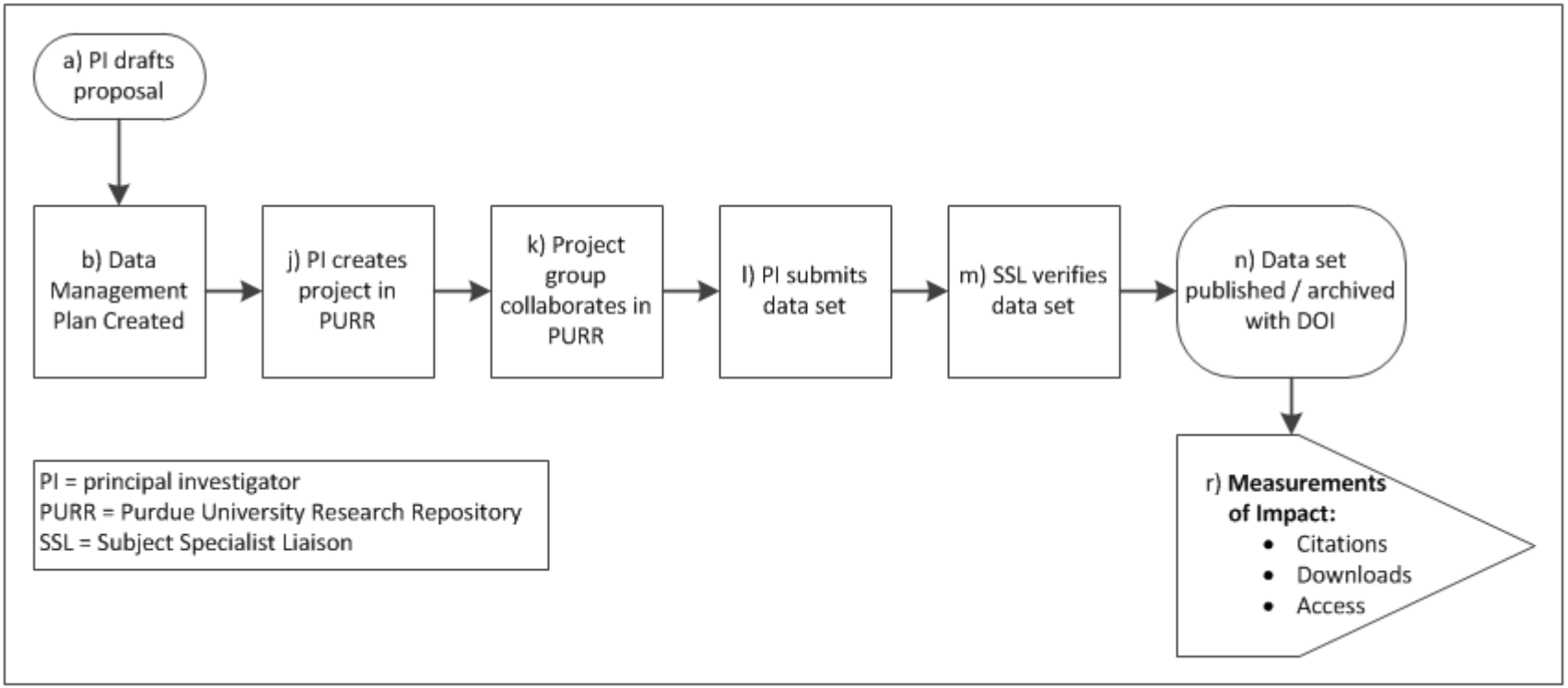
PURR WORKFLOW

DATA MANAGEMENT PLANNING , COLLABORATION, PUBLISHING, & PRESERVATION



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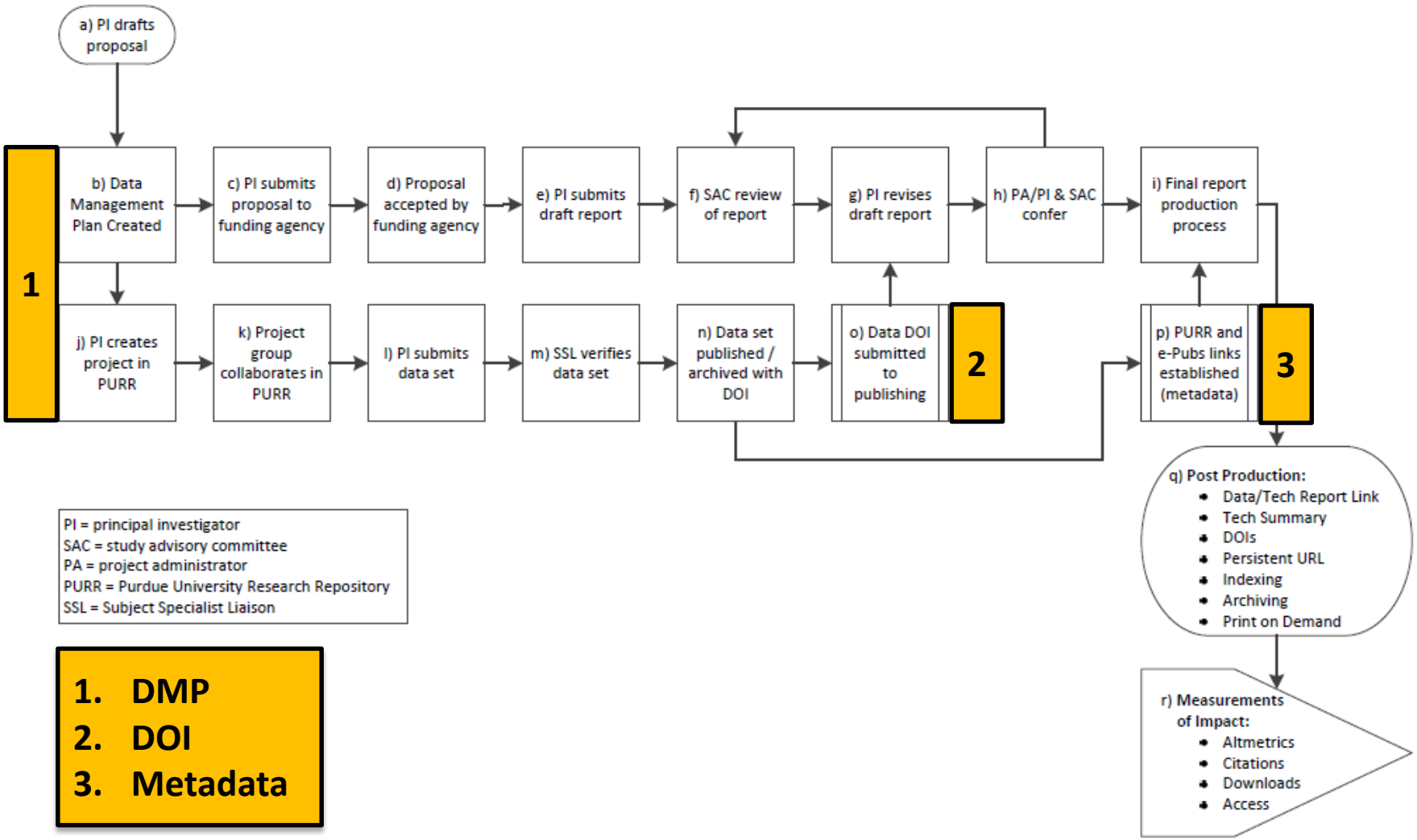
COHESIVE PUBLICATION WORKFLOW



PI = principal investigator
SAC = study advisory committee
PA = project administrator
PURR = Purdue University Research Repository
SSL = Subject Specialist Liaison

1. **DMP**
2. **DOI**
3. **Metadata**

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JTRP LINKED PUBLICATIONS

TECHNICAL REPORT

- Varma, A. H. and Y. Sohn, "Effects of Realistic Heat Straightening Repair on the Properties andServiceability of Damaged Steel Beam Bridges," Publication FHWA/IN/JTRP-2013/03, Joint Transportation Research Program, Indiana Department of Transportation and Purdue University, West Lafayette, Indiana, 2013. (DOI: 10.5703/1288284315184).

DATA

- Amit Varma, Youngmoo Sohn, (2013), "ADJUSTING FORCE - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3SF2MC0W)
- Amit Varma, Youngmoo Sohn, (2013), "DAMAGED GIRDER - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3X63B541)
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 1 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3NS0KX8Z)
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 2 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3J09W45G)
- Amit Varma, Youngmoo Sohn, (2013), "FORCE SYSTEM 3 - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D30Z70W9F)
- Amit Varma, Youngmoo Sohn, (2013), "N-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3W66984S)
- Amit Varma, Youngmoo Sohn, (2013), "N-2 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D38G8FH7Z)
- Amit Varma, Youngmoo Sohn, (2013), "S-1 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3RJ48V2G)
- Amit Varma, Youngmoo Sohn, (2013), "S-2 Span Damage - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D34Q7QQ3T)
- Amit Varma, Youngmoo Sohn, (2013), "TEMPERATURE - Supplementary Materials for the Report: Effects of Realistic Heat Straightening Repair on the Properties and Serviceability of Damaged Steel Beam Bridges": (DOI:10.4231/D3D795B1Q)

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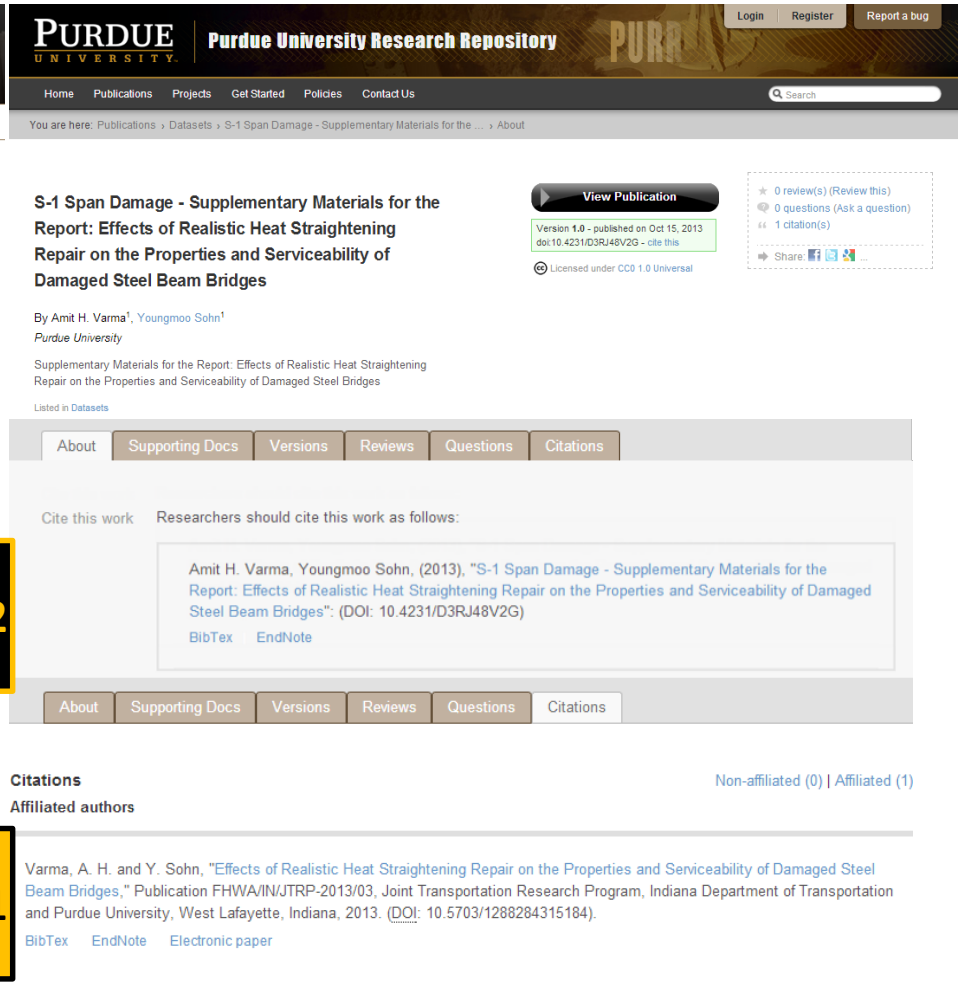
LINKING DATA

PURDUE E-PUBS AND PURR



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PURR PRESERVATION POLICY

Purdue University Research Repository PURR

PURR Digital Preservation Policy

Purdue University Research Repository (PURR)
Digital Preservation Policy

Purpose

The Purdue University Research Repository (PURR) serves as Purdue's institutional data repository through providing resources and services to promote the management, dissemination and preservation of research data generated by researchers affiliated with Purdue or in association with Purdue researchers. The Purdue University Libraries is responsible for preserving content in PURR. The Libraries is committed to preserving and maintaining all PURR content for a period of ten years after it is published in PURR. Long-term preservation of PURR content beyond the ten year retention period is subject to the Libraries' selection criteria for long-term retention, pending budget approval for staffing and related resources needed to accomplish this goal.

The following PURR Digital Preservation Policy describes how Purdue University will support sustainable access to digital data sets and related content deposited into PURR. Detailed strategies for preservation activities will be developed in conjunction with this policy. This policy is subject to change as capabilities, standards, best practices and available technologies impact the University's ability to preserve this content. The intended audience for this policy includes faculty, administrators, and students of Purdue University, researchers external to Purdue who are collaborating with Purdue personnel and who want to make use of PURR's services, funders, and users.

The objectives of PURR are:

- to collect, publish and preserve the digital data sets and associated documentation generated by researchers affiliated with Purdue or associated with Purdue's research projects.
- to enable researchers at Purdue to satisfy the requirements of funding agencies in managing, sharing and preserving research data.
- to provide the means for researchers, policy makers, and others to discover and access data sets generated through research done at or in conjunction with Purdue for the long term.
- to provide a sustainable preservation environment where deposited research data are available to support the historical record of research, and accessible for use for contemporary scholarship.

https://purr.purdue.edu/legal/digitalpreservation

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PURR PRESERVATION STRATEGIES

Purdue University Research Repository

Preservation Strategies

1. Preservation Strategies

The following preservation acts adhere to the PURR Preservation Strategic Plan's goal of preserving access to digital content so that it remains readable, meaningful, and understandable. Each object that enters the repository will undergo some type of preservation strategy, defined here:

Bit-level Preservation: This is the most basic level of preservation in PURR. Datasets designated for bit-level preservation will undergo file backup, fixity checking, and recognition of file format preservation activities. Datasets will be maintained in a state that provides potential for long-term care and accessibility. Datasets will undergo Bit-level Preservation if the file format is unrecognized or unsustainable, or if Full or Limited Preservation is not possible at the time of ingest. When possible, representation information will be included within object metadata.

Limited Preservation: Datasets at this level will receive Bit-level Preservation activities with representation information, and migration actions when appropriate during the life cycle. Migration will be made with the priority of preserving content and when possible, the format and style. Functionality of the dataset may not be preserved at this level, due to proprietary formats which may fall into this level.

Full Preservation: This is the highest preservation level in PURR. Datasets at this level receive Bit-level Preservation activities, with representation information, as well as transformation/normalization and migration actions when appropriate during the life cycle. Full Preservation includes continual monitoring by PURR managers for obsolescence and changes in file formats and/or technology.

PURR reserves the right not to accept or preserve objects found to be corrupted or dangerous to the repository.

As stated in the PURR Digital Preservation Policy, Purdue Libraries is committed to preserving and maintaining all PURR content for a period of ten years after it is published in PURR. Long-term preservation of PURR content beyond the ten year retention period is subject to the Libraries' selection criteria for long-term retention, pending budget approval for staffing and related resources needed to accomplish this goal.

https://purr.purdue.edu/legal/preservation-strategies

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FILE FORMAT RECOMMENDATIONS

Purdue University Research Repository

File Type	Sustainable	Supported	Unsustainable
Word Processing	PDF/A, OpenDocument Text	PDF/B, Microsoft Word, Microsoft Open XML, Rich Text Format	CorelWordPerfect, Lotus WordPro, PDF
Plain Text	Plain Text, Comma-separated file, Tab-delimited file		
Structural markup	SGML w/DTD, XML w/DTD		SGML w/o DTD, XML w/o DTD
Spreadsheets	OpenDocument Spreadsheet, Comma-separated file, Tab-delimited file, PDF/A	Microsoft Excel, Microsoft Excel Open XML	
Databases	Delimited Flat File w/DDL	Microsoft Access, dBase Format	
Audio	WAVE	AIFF (uncompressed), Standard MIDI, Windows Media Audio, MPEG, MP2AAC	Audio CD, DVD-Audio, RealAudio, Shorten, RIFF-RMID, Extended MIDI, Module Music Formats
Video	*Archival format not currently established.*	AVI, MPEG-1, MPEG-2, MPEG-4, Quicktime	Windows Media Video
Images	TIFF, JPG 2000	JPEG, PMG, PDF/A, GIF	RAW, Adobe Photoshop, Kodak PhotoCD, Encapsulated PostScript, FlashPix, PDF

https://purr.purdue.edu/legal/file-format-recommendations

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PRESERVATION SUPPORT POLICY

Purdue University Research Repository

Preservation Strategy	Preservation Action	Sustainable	Supported	Unsustainable
Bit-level Preservation	DOI identifier for object	x	x	x
	Preservation metadata	x	x	x
	Secure storage and backup	x	x	x
	Regular virus checks	x	x	x
	Regular fixity checks	x	x	x
	Bitstream maintenance	x	x	x
	Transformation/Normalization	x	x	x
Limited Preservation	Strategically monitor format for changes	x	x	
	Migrate to more preservable format	NA	x	
Full Preservation	Migrate to successive format	x		

https://purr.purdue.edu/legal/preservation-support-policy

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QUESTION AND COMMENTS

Thank You

Lisa Zilinski
lzilins@purdue.edu
@l_zilinski

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