Digital Repository: Promoting Scholarship via the convergence of (local/global and digital/analogue) contents

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Mark Edward Phillips
University of North Texas
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Howdy Folks!!
University of North Texas
Largest university in the Dallas/Fort Worth Metropolitan Area
36,000 students
2,128 Academic Staff
29,481 Undergraduate Students
6,687 Graduate Students
5th largest university in the state of Texas
UNT Libraries
55 librarians
81 full-time staff
6 million cataloged items
1.9 million books & journals
4 million microform pieces
64,270 electronic subscriptions
1,034,480 items in the UNT Libraries Digital Collections
1,024,096 Open Access resources available freely to the world.
The UNT Libraries is a strong advocate for Open Access
Major collecting areas for the UNT Libraries' Digital Collections
The Portal to Texas History
The Gateway to Oklahoma History
The Gateway to Oklahoma History

About the Gateway

The Gateway is an online repository of Oklahoma history. You may browse through hundreds of thousands of newspaper pages dating from the 1840s to the 1920s.

The Gateway provides free access to 182,874 issues and 916,190 pages of historical newspaper content.

Other Resources

The Oklahoma Historical Society has numerous resources for Oklahoma history. Visit the Research Center section to find out more about our books, manuscripts, maps, photographs, audio, video and other newspapers.

Recent Additions

The Gateway is continually adding new digital newspapers. View some of the latest materials here.

Connect to Other OHS Programs and Resources

OHS Featured

OKLAHOMA HISTORY

MUSEUMS & SITES

STATE HISTORIC

PUBLICATIONS

RESEARCH CENTER

EVENTS

Keep up to date with OHS exhibits.
UNT Scholarly Works Repository
The Scholarly Works Collection is home to materials from the UNT community's research, creative, and scholarly activities. It serves as UNT's Open Access Repository. This collection brings together articles, papers, artwork, music, research data, reports, presentations, and other scholarly and creative products representing the expertise in our university community.

UNT Scholarly Works aims to:

- Provide easy access to valuable scholarly and creative materials from the UNT community
- Promote discovery through effective search and navigation tools
- Secure long-term access through stewardship and preservation
- Ensure sustainability through continuing system improvements
- Showcase UNT's research and creative achievements to a worldwide audience

To learn more about UNT Scholarly Works, see our web page or contact us at unrepository@unt.edu.
UNT Data Repository
UNT Data Repository

What’s Inside this Collection.

The UNT Data Repository is a central archive to provide long-term preservation and access to the research data of the UNT scholarly community. The Data Repository works in conjunction with the UNT Scholarly Works repository to ensure long-term access to the full range of research outputs from UNT.

Browse the holdings of this collection
UNT Theses and Dissertations Collection.
Theses and dissertations represent a wealth of scholarly and artistic content created by masters and doctoral students in the degree-seeking process. In 1999, the University of North Texas was one of the first American universities to begin requiring electronic theses or dissertations (ETDs) for graduation. Some ETDs in this collection are restricted to use by the UNT community.

Browse the holdings of this collection
Environmental Policy Collection
Environmental Policy Collection

What’s Inside this Collection.

About This Collection

The Environmental Policy Collection contains a variety of open access resources that provide a balanced view on environmental issues and their potential consequences. The current focus of the collection is climate change, and the documents come from such agencies and individuals as:

- United States Climate Change Science Program
- National Oceanic and Atmospheric Administration
- International Geosphere-Biosphere Programme
- Climate Change and Agriculture and Food Security
- Earth System Science Partnership
- Intergovernmental Panel on Climate Change
- United Nations Environment Programme
- World Meteorological Organization
- University of North Texas (UNT) graduate students

About This Project

The UNT Libraries are working to identify, collect, organize, and
Congressional Research Service (CRS) Archive
Congressional Research Service Reports

What's Inside this Collection.

About This Collection

The Congressional Research Service (CRS) does not provide direct public access to its reports, requiring citizens to request them from their Members of Congress. Some Members, as well as several non-profit groups, have posted the reports on their web sites. This site is not affiliated with the Congressional Research Service, but aims to provide integrated, searchable access to many of the full-text CRS reports that have been available at a variety of different web sites since 1990.

The information on this site is compiled and made available as a public service by the Government Documents Department at the UNT Libraries. UNT does not make any warranty as to the accuracy, reliability, or completeness of the information and is not responsible for any errors or omissions or for results obtained from the use of the information. Distribution of the information does not constitute such a warranty. Use of the information is the sole responsibility of the user.

About the Congressional Research Service
Technical Reports Archive and Image Library (TRAIL)
Technical Report Archive and Image Library

What’s Inside this Collection.

This selection of materials from the Technical Report Archive and Image Library (TRAIL) includes hard-to-find reports published by various government agencies. The technical publications contain reports, images, and technical descriptions of research performed for U.S. government agencies prior to 1975. Topics range from mining, desalination, and radiation to broader physics, biology, and chemistry studies. Some reports include maps, foldouts, blueprints, and other oversize materials.

Browse the holdings of this collection
Just some of the many resources offered by the UNT Digital Library
Over the past five years the UNT Digital Library has allowed the UNT Libraries to meet its mission to identify, collect, manage, provide access to, and preserve the rich output of the University of North Texas.
The UNT Digital Library acts as the Institutional Repository for UNT
One major initiative of the UNT Libraries over the past four years is the retrospective digitization of the UNT Theses and Dissertations.
Digitization, metadata creation, and integration with the current Electronic Theses and Dissertations (ETD) submitted by UNT Students.
Expected completion in 2015 of all documents, resulting in 20,000 theses and dissertations available to the world.
An example of the ability to leverage local physical and digital collections to increase exposure of a university and contribute to the world's educational and research infrastructure.
And allowed the world to discover and use the scholarship and research from our students, faculty and staff.
What makes up UNT’s ETDs?

- UNT ETDs Size
- By Access Level
- By Degree Level
What makes up UNT’s ETDs?

UNT ETDs

Doctoral

Dissertation

Master's

Thesis

Problem in Lieu of Thesis
UNT ETDs Size By Access Level

UNT ETDs By Access Level

- Open: 79%
- Restricted: 21%
Size By Degree Level

- Doctoral: 47%
- Master's: 53%
Enhancing ETDs Access and Use via Appropriate Curation

- Digital Curation
- Multiple Formats Access Strategy
- Access by Degree Level
- Access by Country
- Access via Mobile Devices
Digital Curation

• The selection, preservation, maintenance, and archiving of digital assets.

• Involves maintaining, preserving, adding value, and facilitate use and re-use throughout its lifecycle and over time.
Challenges of Digital Curation

- Rate of creation of new data and data sets
- Storage format evolution and obsolescence
- Maintaining accessibility to data through links and search results
- Comparability of semantic and ontological definitions of data sets
- Different community inclined to share items at different level of normalization
Evolving Challenges

- Embargos
- Versions
- Copyright
- Name Authority
- Author Rights
- Record Keeping

Challenges
No single Approach or Model Addresses all Aspects of Digital Curation or Preservation Issues
Multiple Formats Access Strategy

In addition to the originally deposited PDF format, the data desiccation process provides and facilitates additional methods of access by:

- exposing the page level OCR text to an increasing number of search engines
- allowing page turning interfaces or other interfaces designed for emerging mobile devices
Visits from 200+ Countries:
http://digital.library.unt.edu/explore/collections/UNTETD/browse/
6,000+ visits from Africa

437,719 visits came from 216 countries/territories

This continent sent 6,007 visits via 5 sub continent regions

<table>
<thead>
<tr>
<th>Country/Territory</th>
<th>Visits</th>
<th>Pages/Visit</th>
<th>Avg. Time on Site</th>
<th>% New Visits</th>
<th>Bounce Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>302,230</td>
<td>4.41</td>
<td>00:02:35</td>
<td>84.60%</td>
<td>34.79%</td>
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<tr>
<td>United Kingdom</td>
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<td>3.28</td>
<td>00:01:56</td>
<td>87.48%</td>
<td>41.30%</td>
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<tr>
<td>Canada</td>
<td>11,313</td>
<td>4.30</td>
<td>00:02:17</td>
<td>87.05%</td>
<td>41.62%</td>
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<tr>
<td>Germany</td>
<td>8,944</td>
<td>5.53</td>
<td>00:02:40</td>
<td>81.91%</td>
<td>40.22%</td>
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<tr>
<td>India</td>
<td>8,589</td>
<td>2.91</td>
<td>00:02:12</td>
<td>92.64%</td>
<td>31.33%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Country/Territory</th>
<th>Visits</th>
<th>Pages/Visit</th>
<th>Avg. Time on Site</th>
<th>% New Visits</th>
<th>Bounce Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northern Africa</td>
<td>1,609</td>
<td>3.70</td>
<td>00:02:52</td>
<td>84.03%</td>
<td>36.79%</td>
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<tr>
<td>Eastern Africa</td>
<td>1,574</td>
<td>2.64</td>
<td>00:02:38</td>
<td>89.83%</td>
<td>31.06%</td>
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<tr>
<td>Western Africa</td>
<td>1,408</td>
<td>2.24</td>
<td>00:02:34</td>
<td>88.06%</td>
<td>34.60%</td>
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<tr>
<td>Southern Africa</td>
<td>1,358</td>
<td>2.53</td>
<td>00:02:19</td>
<td>93.51%</td>
<td>28.39%</td>
</tr>
<tr>
<td>Middle Africa</td>
<td>63</td>
<td>1.66</td>
<td>00:00:40</td>
<td>93.66%</td>
<td>29.67%</td>
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</table>
These mobile devices sent 12,111 visits via 13 operating systems

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Visits</th>
<th>Pages/Visit</th>
<th>Avg. Time on Site</th>
<th>% New Visits</th>
<th>Bounce Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>iPhone</td>
<td>4,285</td>
<td>2.14</td>
<td>00:01:40</td>
<td>85.24%</td>
<td>42.33%</td>
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<tr>
<td>iPad</td>
<td>3,457</td>
<td>2.98</td>
<td>00:01:30</td>
<td>89.67%</td>
<td>38.99%</td>
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<tr>
<td>Android</td>
<td>2,737</td>
<td>1.99</td>
<td>00:01:38</td>
<td>89.99%</td>
<td>37.89%</td>
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<tr>
<td>iPod</td>
<td>836</td>
<td>1.89</td>
<td>00:01:03</td>
<td>90.66%</td>
<td>41.92%</td>
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<tr>
<td>BlackBerry</td>
<td>489</td>
<td>1.54</td>
<td>00:01:13</td>
<td>94.48%</td>
<td>50.31%</td>
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<tr>
<td>SymbianOS</td>
<td>105</td>
<td>1.80</td>
<td>00:05:15</td>
<td>100.00%</td>
<td>47.62%</td>
</tr>
<tr>
<td>Nokia</td>
<td>88</td>
<td>1.49</td>
<td>00:01:05</td>
<td>95.45%</td>
<td>80.68%</td>
</tr>
<tr>
<td>Windows</td>
<td>43</td>
<td>4.70</td>
<td>00:03:42</td>
<td>93.02%</td>
<td>48.84%</td>
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<tr>
<td>Samsung</td>
<td>38</td>
<td>1.61</td>
<td>00:00:30</td>
<td>97.37%</td>
<td>55.26%</td>
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<tr>
<td>Sony</td>
<td>11</td>
<td>1.27</td>
<td>00:00:11</td>
<td>90.91%</td>
<td>90.91%</td>
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<tr>
<td>LG</td>
<td>6</td>
<td>1.00</td>
<td>&gt; 00:00:00</td>
<td>83.33%</td>
<td>66.67%</td>
</tr>
<tr>
<td>Danger Hiptop</td>
<td>4</td>
<td>1.00</td>
<td>00:00:00</td>
<td>100.00%</td>
<td>100.00%</td>
</tr>
<tr>
<td>PalmOS</td>
<td>3</td>
<td>1.00</td>
<td>00:00:00</td>
<td>100.00%</td>
<td>100.00%</td>
</tr>
</tbody>
</table>
Traffic Sources Overview

All traffic sources sent a total of 437,719 visits

- 11.77% Direct Traffic
- 26.77% Referring Sites
- 61.46% Search Engines

Top Traffic Sources

<table>
<thead>
<tr>
<th>Sources</th>
<th>Visits</th>
<th>% visits</th>
</tr>
</thead>
<tbody>
<tr>
<td>google (organic)</td>
<td>240,051</td>
<td>54.84%</td>
</tr>
<tr>
<td>(direct) ((none))</td>
<td>51,533</td>
<td>11.77%</td>
</tr>
<tr>
<td>en.wikipedia.org (referral)</td>
<td>33,949</td>
<td>7.76%</td>
</tr>
<tr>
<td>yahoo (organic)</td>
<td>12,891</td>
<td>2.95%</td>
</tr>
<tr>
<td>stumbleupon.com (referral)</td>
<td>11,138</td>
<td>2.54%</td>
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</table>

<table>
<thead>
<tr>
<th>Keywords</th>
<th>Visits</th>
<th>% visits</th>
</tr>
</thead>
<tbody>
<tr>
<td>crs reports</td>
<td>3,672</td>
<td>1.36%</td>
</tr>
<tr>
<td>congressional research service</td>
<td>1,323</td>
<td>0.49%</td>
</tr>
<tr>
<td>unt digital library</td>
<td>1,122</td>
<td>0.42%</td>
</tr>
<tr>
<td>congressional research service</td>
<td>680</td>
<td>0.25%</td>
</tr>
<tr>
<td>federal arbitration act</td>
<td>531</td>
<td>0.20%</td>
</tr>
</tbody>
</table>
Search Engines

UNT Digital Library

Search Engines

Sep 8, 2010 - Sep 8, 2011
Comparing to: Site

Search sent 269,022 total visits via 23 sources

Site Usage

<table>
<thead>
<tr>
<th>Visits</th>
<th>Pages/Visit</th>
<th>Avg. Time on Site</th>
<th>% New Visits</th>
<th>Bounce Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>269,022</td>
<td>3.45</td>
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<td>88.34%</td>
<td>31.59%</td>
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</table>

<table>
<thead>
<tr>
<th>Source</th>
<th>Visits</th>
<th>Visits</th>
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<tbody>
<tr>
<td>Google</td>
<td>240,051</td>
<td>89.23%</td>
</tr>
<tr>
<td>Yahoo</td>
<td>12,891</td>
<td>4.79%</td>
</tr>
<tr>
<td>Bing</td>
<td>9,982</td>
<td>3.71%</td>
</tr>
<tr>
<td>Search</td>
<td>2,652</td>
<td>0.99%</td>
</tr>
<tr>
<td>Ask</td>
<td>1,549</td>
<td>0.58%</td>
</tr>
<tr>
<td>AOL</td>
<td>1,442</td>
<td>0.54%</td>
</tr>
<tr>
<td>Baidu</td>
<td>176</td>
<td>0.07%</td>
</tr>
<tr>
<td>Daum</td>
<td>107</td>
<td>0.04%</td>
</tr>
</tbody>
</table>
Concluding Remarks

– Summary
– Collaborative Approach
The digital library environment provides scholars with access to more diverse and previously unavailable contents that span myriad technologies across institutions and nations.

Given the pressure of reading more in less time, today’s users, more than ever, demand access to various formats regardless of temporal and spatial restrictions and the types of devices used.

This poses challenges and presents opportunities to those who organize and provide access to digital resources.
Collaborative Approaches

• Considering the multiple stakeholders in the digital ecosystems, addressing the evolving scholarly communications and digital curation challenges require collaborative approaches.

  In light of the rapid growth of Open Access and availability of scientific and educational resources, such international partnerships, (and related multifaceted synergetic activities) enhance academic institutions’ ability to improve the creation, management, use, and exchange of scientific information in a manner that today’s users expect.
Thank You
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