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eScience Thesaurus 2.0

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Introduction

- The eScience Thesaurus, first created by Kevin Read in 2013, is an online resource which connects and defines concepts, services, and tools relevant to librarians supporting eScience research.
- The many developments within eScience since 2013 have prompted a revision of this valuable resource.

http://esciencelibrary.umassmed.edu/professional-educ/escience-thesaurus

Methods

- Revised methodology Read, Creamer, Kafel, Vander Hart, & Martin (2013) used to create the thesaurus.
- Replicated the search strategy used by Read et al. (2013) and limited the search to articles since 2013.
- Tagged relevant articles with their prominent topics.
- Prominent topics outside of the current terms in the Thesaurus were suggested as possible new thesaurus topics.
- Current terms were suggested for merging or removal.
- Current Thesaurus terms and new proposed Thesaurus terms were evaluated by the eScience Portal Editorial Board for inter-coder reliability.

Results

- 55 terms currently in the eScience Thesaurus.
- 10 were identified for merging.
- All the remaining Thesaurus terms were changed to nouns for consistency.
- 59 possible new terms were reviewed (47 terms arose from the eScience literature search and 12 suggested by members of the Editorial Board).
- 23 new terms passed review to be added to the Thesaurus.

Current terms remaining in Thesaurus

<table>
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<tr>
<th>Altmetrics</th>
<th>Data Sharing</th>
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<tr>
<td>CTSI Data Services</td>
<td>Data Transformation</td>
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<td>Cyberinfrastructure</td>
<td>Data Visualization</td>
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<td>Data Curation</td>
<td>Digital Curation Lifecycle Model</td>
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<td>Data Description and Annotation</td>
<td>Electronic Laboratory Notebook (ELN)</td>
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<td>Data Dictionary</td>
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<td>Linked Data</td>
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<td>Data Science</td>
<td>Management</td>
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<td>Data Security</td>
<td>Research Lifecycle</td>
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New Terms

- Advanced Encryption Standard (AES)
- Application Program Interface (API)
- Big Data
- Biotechnology
- Citizen Science
- Cloud Computing
- Data Access Act
- Data Carpentry
- Data Catalog
- Data enclave
- Data Interoperability
- Data Mining
- Data Network
- Data Ownership
- Data Standards
- Data Stewardship
- High Performance Computing
- Informatics
- LOCKSS
- MOOC
- Open Access
- ORCID
- Reproducible Research
- Wiki

Next Steps

- Create records for the new terms.
- Find relevant literature and resources.
- Interview subject experts.
- Send out groups of the revised and new term records to the Editorial Board.
- Move the eScience Thesaurus to the eScience Portal Website.
- Create stronger ties between the eScience Thesaurus and the other eScience Portal content.

Acknowledgements

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References