Mapping the Structure and Evolution of Electronic Publishing as a Research Field Using Co-citation Analysis

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Outline

- Electronic Publishing
- Mapping
- Research Questions
- Data and Methods
- Results
- Conclusion
Electronic Publishing

- making full-texts of journal articles and books available through the network
- in existence for over 30 years
- internet and Web

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Mapping

- Great interest in recent years
- Based on co-citation analysis
- Document co-citation analysis, author co-citation analysis
- Most frequently mapped knowledge domain - Library and information science (LIS)
- Mapping electronic publishing field
Research Questions

- What are the prominent articles in the field of e-publishing?
- What major areas of e-publishing exist and how are they interlinked?
- Which authors are major knowledge producers?
- Is there an evolving area in e-publishing as a research field?
Data

- Web of Science, topical search
  - “electronic publishing” OR “e-publishing” OR “digital publishing”

- 1979-2009

- 1,182 papers – 689 = 493 journal articles

- Bibliographic records
  - authors, titles, abstracts and reference lists
Methods

- Co-citation analysis
  - Document co-citation analysis
  - Author co-citation analysis
  - noun phrases and keywords

- CiteSpace
  (http://cluster.ischool.drexel.edu/~cchen/citespace/)
Number of Articles on e-publishing
Results

Document co-citation analysis

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Results

Author co-citation analysis
Results

Co-word analysis
Cluster 1
Cluster 2

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Cluster 3

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Author co-citation network
Densest part
Largest Connected Component

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Network of keywords and noun phrases
Concept map of keywords and noun phrases
Conclusions

- Electronic publishing is an emerging research field

- 3 most prominent sources
Conclusions

- Open access – Stefan Harnad
- Major research tracks: open access, e-journals, e-books, digital libraries
Thank you for your attention!

Questions?

For further information, please contact:

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