Hot topics in recent LIS publications

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HOT TOPICS IN RECENT LIS PUBLICATIONS

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Agenda

• Related Literature
• LIS Category & Core Journals
• Methods
• Results
• Conclusions
• Limitations & Future Work
• References
An Early Study


• LIS topic classification scheme (designed in 1990 by the same authors)
  – Topics: 11 main classes (4 with subclasses)

• Purposive selection of core journals: 40

• Selected research articles in 10yr interval:

• Findings:
  – Most popular topics: Library and information service activities; Information storage and retrieval
  – A little on information seeking, scientific communication
  – Shift of interest from classification and indexing to retrieval
A Similar Study Following

Tuomaala, O., et al. (2014)

• Similar method with the article in 1993, 20yr interval: 1965-2005

• Topics identified:
  – Information retrieval: most popular over years
  – Shift of interest from Library and information service activities to Information seeking & scientific communication

Limitations of the two studies

• Sample size
• Selection of core journals
• Classification scheme

- Identified highly cited articles in 1995-2014
  - Chose journals on Journal Citation Reports (JCR) 2008 in Web of Science (WoS) LIS category
  - Removed non-LIS focused journals
  - Kept 10 journals with highest impact factors
  - Selected LIS-oriented articles: 580 in total
  - Added keywords from LISA descriptors or created referred to LISA descriptors

- Popular topics identified: Information Seeking (IS), Information Retrieval (IR), Bibliometrics appeared in all phases
  - Decreasing on the IS and IR
  - Increasing on Bibliometrics (dominant in 2005-2009, over 80%)
Another Research in 2015

Jabeen et al. (2015)

• Source: JCR2010, 77 LIS journals in total
• Selected 40 core LIS journals
• Articles retrieved from WoS, 2003-2012, articles, book reviews, bibliographies, meeting abstracts, etc.
• Keyword analysis:
  – Information technology-based theories and applications played a pivotal role
A Study in 2018

Onyancha, O. B., 2018 (published online June 21, 2018)

• Articles published in WoS during 1971-2015
• Based on author-supplied keywords
• Hot topics identified:
  – 1971-1980: information systems, applications development, database systems
  – 1991-2000: Internet, information technology, information systems
  – 2001-2015: bibliometrics, knowledge management, social media
  – Shifted from information systems design and management in 1970s to scientific communication, information storage and retrieval, information access, information and knowledge management, user education in 2015
WoS LIS Category

Abrizah, et al. (2015)

• 243 active authors/editors categorized the 83 LIS journals on JCR 2011
  – 39 - information science
  – 23 - library science
  – 21 - information systems

• LS journals are hardly represented among the top 25% of the impact factor distribution of JCR’s ranked IS-LS journals.
LIS Core Journals (Purdue)

• “No professionally accepted tiered list of journals in the US” in LIS field

• Tier1: 18 journals
  – Library Journal: widely distributed, trade

• Tier2: 37 journals
  – WoS: include 24 till 2017 (September 2018)

(Nixon, 2014)
Methods

- WoS Core Collection: SCI-EXPANDED, SSCI, A&HCI, CPCI-S, ESCI
- Time period: 2008-2017
- Article, English: 38,162 records
- Data collected: September 18, 2018
- Source titles: Purdue’s list
  - Tier1: 17 (without LJ) all included
  - Tier2: only 24 available in WoS
Tier1 Journal Articles

• 6,288 articles in the 17 journals
• 2,663 articles have author supplied keywords
  – 5 journals do not have any keywords
  – 3 journals have 100% keywords
  – 9 journals: part of them have keywords
• 2-17 keywords per article
• Total valid keywords: 13,160
Keywords by WoS Algorithm

• Information
• Science
• WEB
• Model
• Behavior
• Library
• Impact
• Knowledge
Grouping Keywords

- Tools: e.g. social media: Twitter, Blog, Facebook, ...
- Forms: e.g. blog, blogs
- Spellings: e.g. behavior, behaviour
- Different terms: e.g. academic libraries, university libraries, research libraries, ...
- Subclasses: e.g. data management, data archive, data policy, data access ...
Tier1 Journals

Journal with Au-Keywords?

- Yes
- No
Tier1 Journals

Journals with Au-Keywords

- Government Information Quarterly
- Journal of Information Science
- Journal of the American Society for Information Science
- Journal of Library, Collection, and User Management
- Journal of Academic Librarianship
Tier 1 Journals

Journals without Au-Keywords

- Journal of the American Society for Information Science and Technology
- College & Research Libraries
- Journal of the Medical Library Association
- Refere... & User Services Quarte...
- Library & Information Science...
- Library Quarterly
- Libri
- Journal of Academic Librarianship
- Information Technology and...
TIER 1 JOURNALS - TOP 10 KEYWORDS

1. Social Media: 264
2. Data: 261
3. Web: 245
4. E-Government: 225
5. Academic Libraries: 202
6. Information Retrieval: 185
7. Information Literacy: 160
8. Government: 154
9. Students: 143
10. Librarians: 123
TIER 1 JOURNALS - #10-20 KEYWORDS

CLASSIFICATION: 116
INFORMATION SCIENCE: 100
INTERNET: 96
EVALUATION: 92
COLLABORATION: 89
INFORMATION SEEKING: 88
ASSESSMENT: 72
BIBLIOMETRICS: 67
KNOWLEDGE MANAGEMENT: 65
SCHOLARLY COMMUNICATION: 59
USER STUDIES: 59
SOCIAL MEDIA RELATED KEYWORDS
(TOTAL OCCURRENCES: 264)
GOVERNMENT RELATED KEYWORDS
(TOTAL: 441 OCCURRENCES)
Tier2 Journal Articles

- 37 journals on the list, 24 journals available in the data set
- 7,099 articles in total, 5,458 (77%) contain authors’ keywords
- 27,790 keywords in total
TIER 2 JOURNALS - TOP 10 KEYWORDS

- Social Media: 536
- Academic Libraries: 522
- Data: 501
- Web: 379
- Information Retrieval: 312
- Internet: 295
- Digital Libraries: 285
- Evaluation: 227
- Librarians: 211
- Information Literacy: 203
Results

• Most frequently used keywords from both lists:
  – Social media
  – Data
  – Web
  – Academic libraries
  – Information retrieval
  – Information literacy
  – Librarians

• Tier1 only: Government (E-G), Students
• Tier 2 only: Internet, Digital libraries, Evaluation
Conclusions

• Social media, data management and web related concepts are hot topics in the past ten years
• Academic libraries are the context for most studies although public libraries have some visibilities as well
• Information retrieval is still among the hot topics
• User education has been shifted to information literacy.
• Librarianship is also a hot topic
Limitations & Future Work

• Data set from WoS do not include all core LIS journals identified by Purdue
• Not all articles in these journals contain author supplied keywords
• Keywords by authors are not controlled vocabulary
• In future, need find a systematic way to group/link keywords together
• It would be useful to create an algorithm using text mining techniques to generate meaningful, controlled keywords for articles.
References

Thank you for your attention!

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