

Exploratory Search in Digital Libraries Using Automatic Text Summaries

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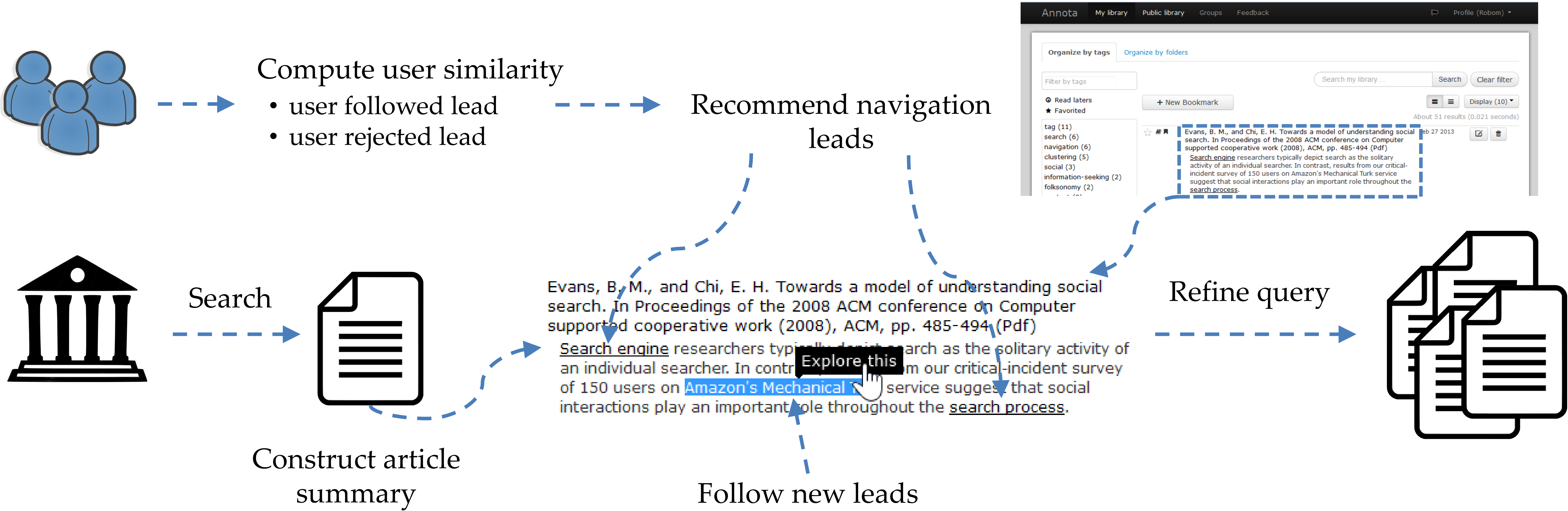
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Motivation

- Exploratory search tasks
 - open-ended, ill-defined information needs
 - different search strategies
- Searching through a series of navigational steps
- Researcher novice scenario



Navigation Using Leads in Summaries



Initial query:	search
Summary:	Enabling entity search and ranking at Web-scale is fraught with many challenges: annotating the corpus with entities and types, query language design, index design, query processing logic, and answer consolidation.
Participant #1:	entity search
Participant #2:	query language design answer consolidation
Participant #3:	query language design answer consolidation
Participant #4:	Web-scale
Participant #5:	entity search and ranking query processing logic

Evaluation

- 566 research papers from ACM DL in bookmarking service Annota
- 3 situations (work task contexts)
 - initial queries: *navigation, search, ontology learning*
 - list of results with summaries
- 5 participants
 - selected words suitable for further exploration
 - compared with other approaches in questionnaire

Contributions

- Navigation using leads in summaries
- Recommending potentially valuable leads followed by others
- Easier, smoother navigation
- Less cognitive load
 - No need to divide attention between text and navigational elements