

# Influence of Navigation Leads' Visualization on Digital Libraries Exploration

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## Motivation

- Researching a new domain
  - exploratory search task
  - researcher novice scenario
- How does visualization of search interface affect the novices' task performance?

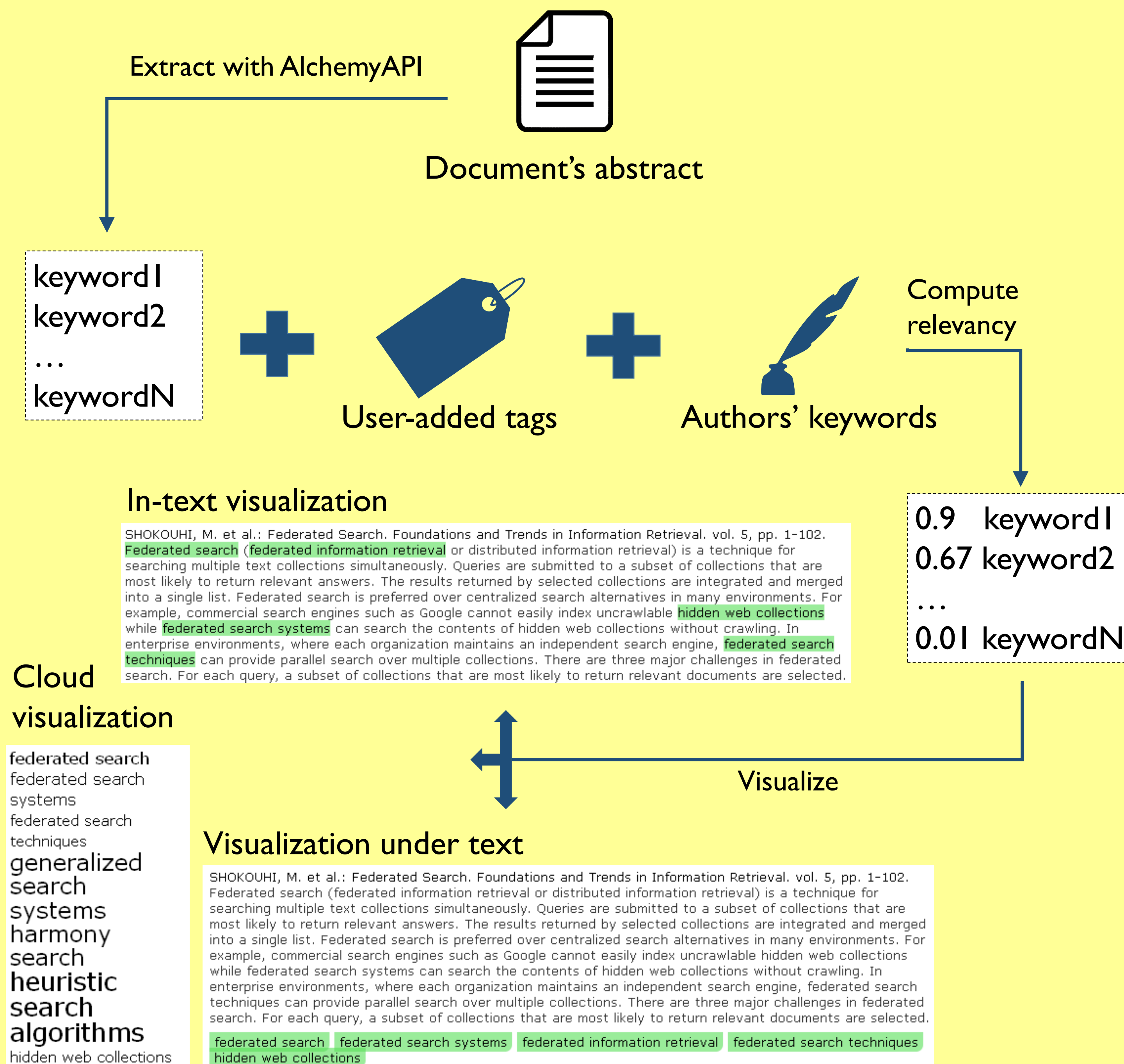
## Navigation Leads

- Important words (phrases) in a summary or an abstract
  - filter relevant documents
- Relevancy based on associated metadata
  - tags, authors' keywords
  - title, abstract

## Evaluation

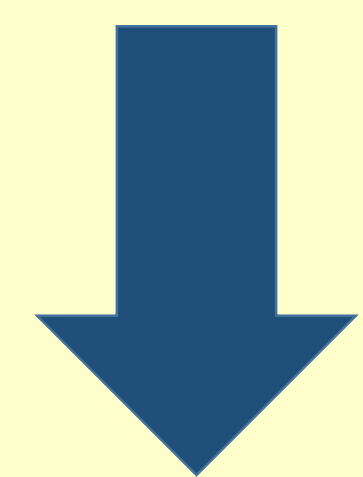
- User study
  - 5 participants, 1+3 tasks
  - questionnaire, search logs, video, audio, eye-tracking
- Annota
  - 16 000 articles from ACM DL

## Leads' Selection and Visualization



## Results

- In text
  - + immediate context
  - too distractive when reading
- Under text
  - + less distractive; context of a document
  - lacks immediate context
- In cloud
  - + differentiates leads' global relevance
  - loses all context



## Conclusions

- visualization under text with in-text highlighting at hover
- relevance differentiation