Visual interactive search and exploration of a digital library

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Problem Background

Data visualisation gives multiple dimensions to the human ability to perceive data.

The number of published papers, in 23,750 journals, was an estimated 1.3 million in 2006. [1]

Association for Computing Machinery (ACM), Elsevier, Institute of Electrical and Electronics Engineers (IEEE), and Springer, for example, are lacking in their capabilities to effectively visualize data.

Ranked Lists no longer able to scale with the ever increasing amount of data.

Related Work
Related Work
Road Map

Data Sets: NICTA, Google Publication(1312), Microsoft Publication(8412), JMLR(1647)
Result: Timeline Visualization of Research Papers
Evaluation of System

Longitudinal Research Mythology

- Allow participants to engage in learning and using the system under investigation over extended period of time
- Data collection method may include usage activities of the participants, administrating questionnaires, conduction group interviews.
- It provides valuable insight into the utility of the system.
Conclusion

Information Retrieval System based on Apache Solr for indexing
D3 for Visualization
Demo of a Digital Library
Question/Answers