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RESEARCH ABSTRACT FORM

TITLE: CaseExplorer - The Case Digital Library Project

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In a nutshell, this project investigates web querying techniques for accessing web information resources. The term information resource refers to large web-accessible resources, e.g. online literature digital libraries (LDLs).

Goal: Contribute to the design and implementation of the infrastructure and services needed for sharing and managing information in a literature digital library context. More specifically, investigate new technologies that are required to overcome the critical barriers to effective digital library access which are:

- * Topic Diversity in keyword-based search queries, which negatively influences the quality of LDL searches.

- * Lack of powerful ranking and filtering mechanisms that allow users to find relevant publications and rank them efficiently.

Towards, eliminating these two barriers, we work on developing models and mechanisms for (i) clustering publications, that is, placing publications into proper “context”s, (ii) arranging contexts into a hierarchical structure that will facilitate search within contexts with different levels of granularity, (iii) effectively ranking publications, publication venues and authors, which are then used to (iv) rank search results and classify search results based on topics, in order to help user customize their search criteria.

CASE Explorer is a prototype, and being continually improved. To use the presently available tools, please see the following links.

[Context-Based Search](#)

[ACM Anthology Basic Paper Search](#)

[elGiza, A Research-Pyramid-Based Search Tool for CaseExplorer.](#)

[ACM Anthology Advanced Query Interface](#)

[ACM Anthology FullText Search](#)

[PubMed Abstracts FullText Search](#)

[Ontology Viewer](#)

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