

## **Data Representation for Efficient Query Evaluation**

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Abstract:

Efficient query evaluation is an important selling attribute of commercial web search engines. In order to serve fresh and up to date information web search engines have to crawl and index large volumes of web data. To compound matters, users not only want correct and up to date information but they also expect it to be served in a fraction of a second.

Through effective data representation, the amount of time and resources spent resolving queries can be reduced. In this talk I will be presenting several techniques we have been investigating for effective data representation. In particular we look at dynamic inverted index pruning, inverted index caching as well as document storage for efficient snippet generation.