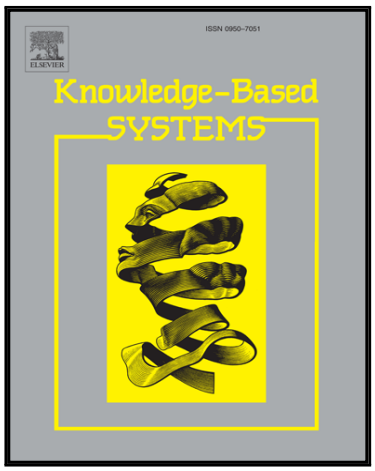
Accepted Manuscript



Design a Batched Information Retrieval System Based on a Concept-lattice-like Structure

Ming Huang, Jiajun Lin, Yong Peng, Xing Xie

PII: S0950-7051(18)30118-7
DOI: 10.1016/j.knosys.2018.02.041
Reference: KNOSYS 4249

To appear in: *Knowledge-Based Systems*

Received date: 2 August 2017
Revised date: 24 February 2018
Accepted date: 27 February 2018

Please cite this article as: Ming Huang, Jiajun Lin, Yong Peng, Xing Xie, Design a Batched Information Retrieval System Based on a Concept-lattice-like Structure, *Knowledge-Based Systems* (2018), doi: 10.1016/j.knosys.2018.02.041

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

Highlights

- Creatively propose the concept of Batched information retrieval, which significantly improves retrieval efficiency in certain scenes.
- Propose a batched information retrieval algorithm based on a concept lattice similar structure called keyword-DAG, to fully reuse the similarity among queries.
- Propose an improved rank algorithm with mathematic proof, which greatly shorten the retrieval time.
- Proposed an overall planning algorithm search for improving the efficiency of search and utilization of memory when the batched size is large.
- Implement this method with the popular open source library Lucene and so is easy to be applied in practice.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/6861456

Download Persian Version:

https://daneshyari.com/article/6861456

Daneshyari.com