A System and Method for Conducting a Textual Data Search

Communications & Information

Computer/AI/Data Processing and Information Technology
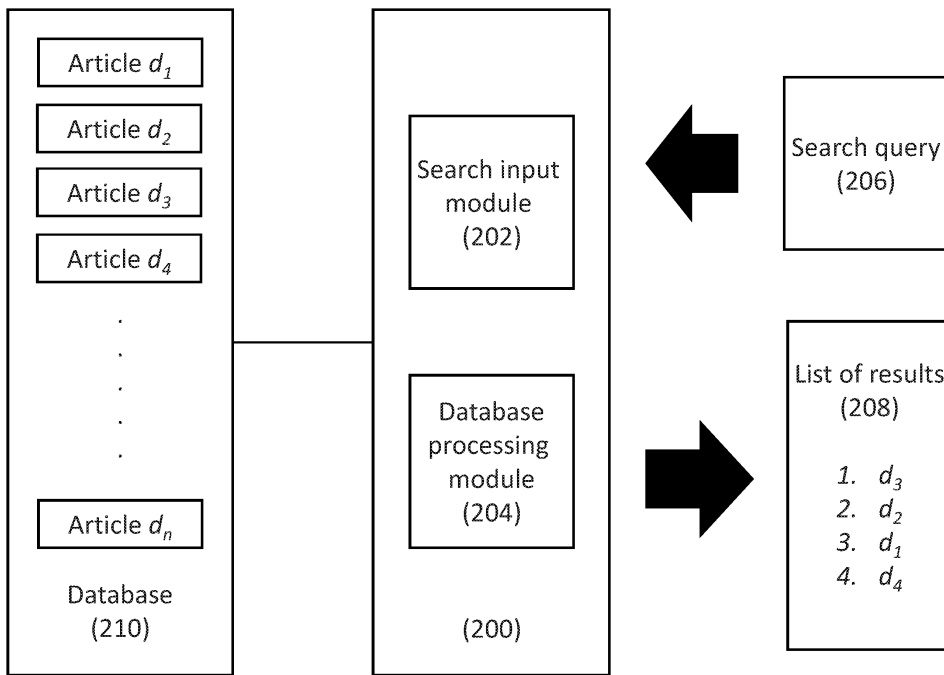

FIG. 2

IP Status
Patent granted

Technology Readiness Level (TRL) ❓ 2

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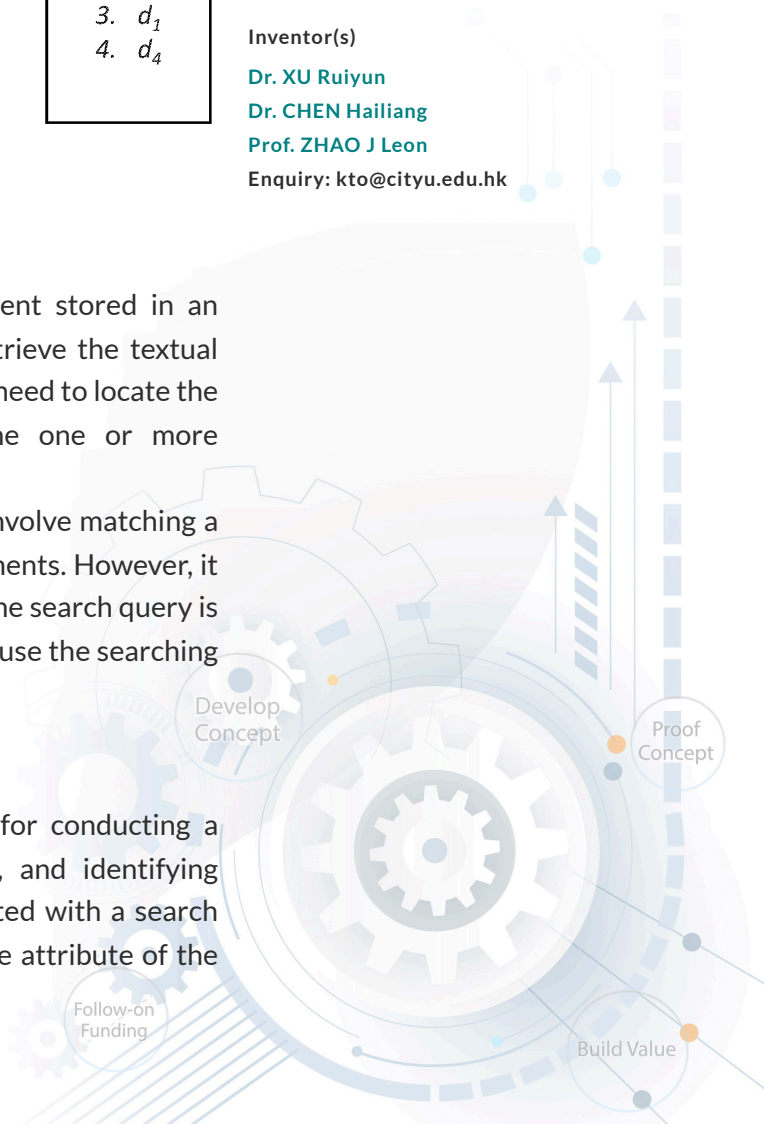**Enquiry: kto@cityu.edu.hk**

Opportunity

Textual contents may be digitally contained in a document stored in an electronic database. In general, when a user needs to retrieve the textual data in a document stored in a large database, the user will need to locate the specific document from multiple documents within the one or more databases.

Locating or searching specific documents or articles may involve matching a search query with the information stored within the documents. However, it may be difficult to locate some of the stored documents if the search query is not accurately formulated in some occasions, which may cause the searching process to become time consuming and inefficient.

Technology

The present invention relates to a system and method for conducting a textual data search, particularly to a literature search, and identifying citation data. It includes receiving a search query associated with a search topic; analyzing the search query to determine at least one attribute of the

search topic; processing the at least one attribute and a plurality of articles in a database; and identifying one or more results being relevant to the search topic in the plurality of articles in the database.

Advantages

- Well-written abstract for query is not necessitated. A combination of keywords would be sufficient as the query input owing to the bag-of-words in the sentence.

- It does not require users to formulate their search queries based on keywords so that the users do not need to try multiple queries using different keywords.

- Efficient method and suitable for large-scale implementation

Applications

- Locating or searching specific documents or articles from a search query

- Citations based on text contents

- Bibliometrics and scientometrics