

Abstract

Text Retrieval System is used to search text document which relevant to query. Text Retrieval System consists of indexing and searching text document stored in system.

Indexing is a process of storing indices of the term within the document stored in system. It needs a data structure to store the index. To improve performance, this data structure is able to support dynamic indexing, which is especially important for environments where documents are changed frequently.

One of the data structures is called SB-tree. SB-tree is a special variant of B(Bayer)-tree with additional information and special element format that is stored in leaf node.

To update inverted list, systems use the bounding boxes from the nodes to ensure that "nearby" elements are placed in the same leaf node (in particular, a new element will go into the leaf node that requires the least enlargement in its bounding box).

Keyword: Text Retrieval, Text Retrieval System, indexing and SB-tree.