

ABSTRACT

The present invention is an apparatus for creating an index for conducting a search on a database based on a resource including a text sentence. The apparatus comprises: a dictionary that includes a plurality of phrases associated with each other for each specific concept; an input interface unit that receives an input of the resource; a text processing unit that performs processing for extracting a plurality of words, as tokens, from the text sentence in the received resource; a directed graph generation unit that generates a directed graph representing a connection relationship between the extracted plurality of tokens in accordance with the text sentence; a directed graph search unit that conducts a search on the directed graph based on a search-target-phrase and that, if the search-target-phrase is found in the dictionary, locates a location in the directed graph where the search-target-phrase appeared; and an index creation unit that creates an index indicating association with the resource based on the plurality of tokens in the directed graph.

Figure 4