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Abstract
With the proliferation of the music database, Content-Based Retrieval (CBR), a convenient and immediate querying technique, makes the query time become extended. Hence, a variety of methods were proposed for efficient query. Most of them used repeating pattern for key index to represent the music. One of the universal characteristics in the music is repeating pattern that it can reduce strings compare and query time.

Upon the MP3 digital format, we propose a High-Frequency Repeating Pattern based on CBR in this paper. It uses the segmental sentence to reduce the length of Fixed Do strings and finds repeating pattern. Then, it finds the high frequency sentence in repeating pattern of theme and builds up key index.

The High-Frequency Repeating Pattern uses few key indexes to represent the MP3 content, and cuts down the query time efficiently. But the query time will be increased when the music database grows up.

For this reason, we propose a Trie Index Structure to speed the retrieval up. The Trie Index Structure, like the index of dictionary, is exchanged inexpensive storage for fastest query time. Most importantly, this proposed method efficiently keeps feedback time flat.
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