

Improving Retrieval Performance by Global Analysis

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Abstract

In this paper, we propose a global analysis approach for query expansion in information retrieval. This approach, which concentrates on extracting associated expansion terms for a given query so as to improve the retrieval performance, can be divided into three stages. The first stage, called association calculation, is to measure associations between term-term pairs. The second stage focuses on how to select suitable terms for expansion. In the last stage, a reweighting scheme is introduced in order to clarify the impact of each expansion term. Experimental results on the TREC collection demonstrate the effectiveness of our approach.

1. Introduction

The main objective of an information retrieval (IR) system is to identify useful information in a given document collection in order to satisfy users' information needs. The IR system uses retrieval techniques to match users' queries, expressed as a series of words, to the documents that are regarded as the most relevant information. Therefore, IR system can return exact matches only when queries are well formulated, typically consisting of topic-specific keywords which together characterize the information needs.

However, queries are often ambiguous or incomplete to represent users' information needs, and moreover, the concept of a user's given query can be expressed in multiple forms in the documents. These problems, which degrade IR systems' retrieval effectiveness, become severer when the queries get shorter (e.g., queries on the World Wide Web). As a query gets shorter, the probability of precise match among query and relevant documents decreases.

Query expansion is one of the promising approaches to deal with these problems. Its basic idea is to supplement the original query with additional relevant terms which are expected to clarify the original query. Techniques for query expansion can be categorized as either global or local tech-

niques [9]. Global techniques rely on analysis of the whole set of documents in a collection to discover word relationships for expansion, while local techniques only involve the top ranked documents retrieved by the original query [3] [10] [7]. As local analysis techniques assume that some of the top ranked documents are relevant, they are heavily dependent on the first retrieved documents. That is to say if the quality of the basic retrieval is low, this kind of expansion would even degenerate the retrieval effectiveness.

In this paper, we propose a global analysis approach for query expansion, which can be separated into three stages. In the first stage, we introduce an association calculation measure, which integrates term weight, mutual information and normalized distance between terms, to calculate the association between term-term pairs. Then, we select a series of top relevant terms based on a term-query correlation to enrich the original query. Finally, we apply a reweighting scheme to the expanded terms in order to make sure that they will play an effective role in improving retrieval performance as well as prevent query drift – the alteration of the focus of a query caused by improper expansion.

The remainder of the paper is organized as follows. Section 2 describes the three stages of our global query expansion process. Section 3 presents the results of experiments carried out with TREC-8 adhoc task collection [8] and provides comparative analysis of our approach with other conventional approaches. Section 4 offers some conclusions.

2. Global Analysis Approach to Query Expansion

The essence of our global analysis approach is to extract informative terms that are most associated to a given query. To be more exactly, associated terms are not necessarily synonyms in the grammatical sense but associated in the sense of information retrieval. For example, if an original query is "data" and "mining", it may be expanded by "knowledge", "discovery", "decision", "classification", "analysis", and so on. To achieve such an aim, we propose a three-stage expansion process:

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