Efficient Detection for Top Part of Research Paper with Layout Index

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Abstract. The detection of elements in top part of research paper is the key problem in layout analysis, because these elements are often used as the search items by user. This paper provides a index-based method for auto detection of top part from research papers. Different from existing methods, an index is used for detecting items from top part of research paper. Experiments show the advantage of our method over existing methods, and future work is also described in the paper.

Introduction

Research paper is always transmitted by Internet for knowledge sharing and academic communication. The papers are published in PDF format which is de facto format in science publication. Because a lot of research papers are published every day, paper finding is difficult for large paper volume and complex search requirement. The search engine such as CiteSeer[1] and Cora[2] are typical tools for finding research paper. Before indexing by the search engine, the paper must be parsed to find the title, author, email, institution, abstract and keyword as search items, which consist of the top part of research paper.

Some related work has been done on metadata detection and extraction, where existing methods are all include redundant operations. The existing work includes rule-based and machine learning based method. All the methods depend on predefined rules or corresponding relations between input and out samples. The predefined rules can be expressed by regular expression [3] or hierarchy knowledge framework [4]. The rule-based method is easy to accomplish and proper rules make good detection result. The machine learning relation can be expressed by maximum entropy model [5] and random field model [6]. The machine learning method is adaptive compared with rule-based method. While the effectiveness of both methods depend on sample data.

In real work for one conference or a journal, there is always a batch of papers to be detected. Existing methods are time-consuming for redundant operation, such as computing of statistics, and redundant rules for item detection. Up to now there is no index based method for detecting papers. While some related work can be referenced on caching and indexing of multiple files. For example, the prefix similarity between files is explored for indexing [12][13]. Query similarity and containment are used for multiple query caching [14].

Detection of Top Part

The detection of top part for one research paper includes three steps: Firstly, the paper of PDF format is parsed to transfer the file into same sequence with viewing mode. Secondly, the statistics of the paper is computed. Thirdly, the top part item is detected according to predefined rules. In this paper, we explore an index-based method to detect top part for multiple papers.

A. Layout Similarity

The papers for same conference or journal always have same publish standard, which results in the similar layout. For example, the IEEE conference provides paper template of word and latex format. With same template, the paper has similar layout features, which include element sequencing and position, font, spacing and etc.

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