

# Categories of Information Retrieval Methods in Commercial Electronic Resources

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## Abstract

The article provides an overview of existing methods of processing textual data in order to improve the site's performance and quickly find information about the product that the user needs: substantiated the relevance of the research topic, analyze the classification of problems, search and processing of textual information

## Keywords 1

Information retrieval, methods of classification

## 1. Introduction

Recently, text analysis has attracted more and more attention in various fields. The continuous accumulation of textual data has led to the need to develop methods for carrying out information retrieval to ensure effective work with large corpora of texts.

## 2. Categories of Information Retrieval Techniques

One of the tasks of the Internet user is to find the necessary information upon request. In this regard, the problem of information retrieval arises, which is the process of identifying in a set of documents (texts) all those that are devoted to a specified topic (subject) and satisfy a predetermined search (query) condition or contain necessary (corresponding to information needs) facts, information ,data. The search process includes a sequence of operations aimed at collecting, processing and providing the necessary information to interested parties [2].

To simplify the search for information among a large array of information resources and make it relevant, categories of information search methods are used. (Fig. 1) [1].

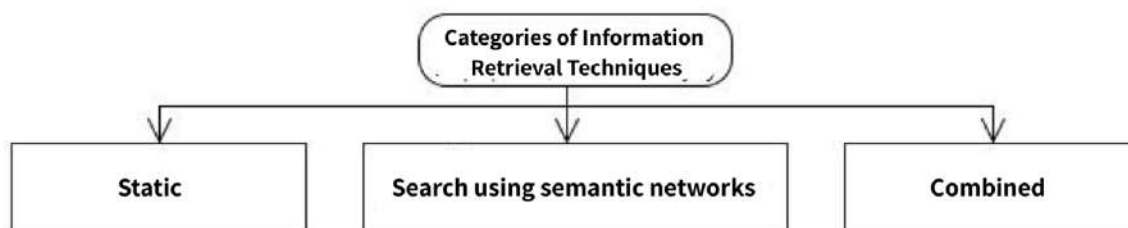


Figure 1: Categories of Information Retrieval Techniques

Comparison of categories of Information Retrieval techniques is presented in a more detailed way in Table 1.

**Table 1**

Advantages and disadvantages of using categories of information retrieval methods

Method	Advantages	Disadvantages
Static	Determines the weight of each word in the document. The advantage of such methods is that they have a high-quality mathematical model, with the help of which it is possible to obtain correct estimates of the relevance of documents.	They do not take into account the semantic load of the texts and the text of the request.
Search using semantic networks	Use data presented in the form of ontologies. In order to perform a search using this method, it is necessary to set the properties of the object. The advantage can be considered the fact that they take into account the semantic load.	They can only be used when electronic documents contain a semantic description of the content.
Combined methods	In addition to static methods, methods of semantic text analysis are used.	When you use combined categories of information retrieval techniques, errors are possible.

In conclusion, as we can see, all the methods have both advantages and disadvantages. This must be taken into account when choosing the appropriate one or more methods. After analyzing the various methods of information retrieval, you can see that each method can be applied depending on the task

### 3. References

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- [2] J.M. Stanton, Introduction to Data Science, Third Edition. iTunes Open Source eBook. 2012. URL: <https://itunes.apple.com/us/book/introduction-to-data-science/id529088127?mt=11>.