

Overview of the Fifth Text REtrieval Conference (TREC-5)

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1. Introduction

The fifth Text REtrieval Conference (TREC-5) was held at the National Institute of Standards and Technology (NIST) on November 20-22, 1996. The conference was co-sponsored by NIST and the Information Technology Office of the Defense Advanced Research Projects Agency (DARPA) as part of the TIPSTER Text Program.

TREC-5 is the latest in a series of workshops designed to foster research in text retrieval. For analyses of the results of previous workshops, see Sparck Jones [21], Tagge-Sutcliffe and Bhustein [23], and Harman [8]. In addition, the overview paper in each of the previous TREC proceedings summarizes the results of that TREC.

The TREC workshop series has the following goals:

- to encourage research in text retrieval based on large test collections;
- to increase communication among industry, academia, and government by creating an open forum for the exchange of research ideas;
- to speed the transfer of technology from research labs into commercial products by demonstrating substantial improvements in retrieval methodologies on real-world problems; and
- to increase the availability of appropriate evaluation techniques for use by industry and academia, including development of new evaluation techniques more applicable to current systems.

Table 1 lists the groups that participated in TREC-5. Thirty-eight groups including participants from nine different countries and ten companies were represented. The diversity of the participating groups has ensured that TREC represents many different approaches to text retrieval. The emphasis on individual experiments evaluated within a common setting has proven to be a major strength of TREC.

This paper serves as an introduction to the research described in detail in the remainder of the volume. The next section defines the common retrieval tasks performed in TREC-5. Sections 3 and 4 provide details regarding the test collections and the evaluation methodology used in TREC. Section 5 provides an overview of the retrieval results. The final section summarizes the main themes learned from the experiments.

2. The Tasks

Each of the TREC conferences has centered around two main tasks, the routing task and the ad hoc task. In addition, starting in TREC-4 a set of "tracks", tasks that focus on particular subproblems of text retrieval, were introduced. TREC-5 continued the tracks started in TREC-4 and added a new track on natural language processing (NLP). This section describes the goals of the two main tasks in detail, and outlines the goals of each of the tracks. Readers are urged to consult the appropriate track report found later in these proceedings for details about individual tracks.

2.1. The routing task

The routing task in the TREC workshops investigates the performance of systems that use standing queries to search new streams of documents. These searches are similar to those required by news clipping services and library profiling systems. A true routing environment is simulated in TREC by using topics that have known relevant documents and testing on a completely new document set.

The training for the routing task is shown in the left-hand column of Figure 1. Participants are given a set of topics and a document set that includes known relevant documents for those topics. The topics consist of natural language text describing a user's information need (see sec. 3.2 for details). The topics are used to create a set of queries (the actual input to

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Proceedings of the Conference Association for Computational Linguistics. Meeting,1998 **Proceedings of the ... International Conference on Information and Knowledge Management** ,1998 **7th International Symposium on String Processing and Information Retrieval** ,2000 Annotation The 31 papers discuss such topics as a model and software architecture for visualizing search results on the World Wide Web a survey of longest common subsequence algorithms an effective clustering algorithm to index high dimensional metric spaces rotation invariant histogram filters for similarity and distance measures between digital images a fully compressed pattern matching algorithm for balanced straight line programs a word stemming algorithm for the Spanish language fast multi pattern search algorithms for detecting intrusion implementing document ranking within a logical framework parallel searches using partitioned inverted files and detecting prosodic stress and topics in spoken sentences Subjects are not indexed Annotation copyrighted by Book News Inc Portland OR **TREC** E. Voorhees,Donna K. Harman,2005 A comprehensive review of TREC Text REtrieval Conference Describes TREC history test collections and retrieval methodology Includes evaluations of specific tasks and perspectives on TREC from participants *Proceedings of the Conferences and Proceedings of the ANLP-NAACL 2000 Student Research Workshop* Association for Computational Linguistics North American Chapter,2000 *Proceedings of the Second Conference on Empirical Methods in Natural Language Processing* Claire Cardie,Ralph M. Weischedel,1997 Knowledge Organization ,1998 Proceedings of the Annual Meeting American Society for Information Science,1999 **Proceedings of the ... ACM CIKM** ,2002 **Proceedings of the 1998 ACM CIKM International Conference on Information and Knowledge Management** Georges Gardarin,1998 **Adaptive Combination of Evidence for Information Retrieval** Christopher Charles Vogt,1999 *International Classification* ,2001 **Proceedings of the 1998 ACM SIGMOD International Conference on Management of Data** Laura Haas,Ashutosh Tiwary,1998 **National Online Meeting Proceedings--2000** Martha E. Williams,2000 This second edition of Heting Chu's popular work on information representation and retrieval IRR features numerous updates and revisions including coverage of taxonomies folksonomies ontologies social tagging search retrieve web service and next generation OPACs The chapter on artificial intelligence has been significantly expanded to include a host of related topics such as automatic summarization question answering natural language searching and the semantic web As in the first edition Chu emphasizes principles and fundamentals She reviews

key concepts and major developmental stages of the field and then systematically examines information representation methods IRR languages retrieval techniques and models and internet retrieval systems In addition she explains the retrieval of multilingual multimedia and hyperstructured information and explores the user dimension and evaluation issues

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