

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

Ellen M. Voorhees, Donna Harman  
National Institute of Standards and Technology  
Gaithersburg, MD 20899

## 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], Tagua-Sutcliffe and Blustein [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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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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