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 TIP-STER 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], Tague-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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technology and work task contexts The Turn is the first synthesis of research in the broad area of IS R ranging from systems oriented laboratory IR research to social science oriented information seeking studies Information Retrieval Evaluation Donna Harman, 2011-06-06 Evaluation has always played a major role in information retrieval with the early pioneers such as Cyril Cleverdon and Gerard Salton laying the foundations for most of the evaluation methodologies in use today The retrieval community has been extremely fortunate to have such a well grounded evaluation paradigm during a period when most of the human language technologies were just developing This lecture has the goal of explaining where these evaluation methodologies came from and how they have continued to adapt to the vastly changed environment in the search engine world today The lecture starts with a discussion of the early evaluation of information retrieval systems starting with the Cranfield testing in the early 1960s continuing with the Lancaster user study for MEDLARS and presenting the various test collection investigations by the SMART project and by groups in Britain The emphasis in this chapter is on the how and the why of the various methodologies developed The second chapter covers the more recent batch evaluations examining the methodologies used in the various open evaluation campaigns such as TREC NTCIR emphasis on Asian languages CLEF emphasis on European languages INEX emphasis on semi structured data etc Here again the focus is on the how and why and in particular on the evolving of the older evaluation methodologies to handle new information access techniques This includes how the test collection techniques were modified and how the metrics were changed to better reflect operational environments The final chapters look at evaluation issues in user studies the interactive part of information retrieval including a look at the search log studies mainly done by the commercial search engines Here the goal is to show via case studies how the high level issues of experimental design affect the final evaluations Table of Contents Introduction and Early History Batch Evaluation Since 1992 Interactive Evaluation Conclusion Advances in Intelligent Data Analysis V Michael R. Berthold, Hans-Joachim Lenz, Elizabeth Bradley, Rudolf Kruse, Christian Borgelt, 2011-03-16 We are glad to present the proceedings of the 5th biennial conference in the Intelligent Data Analysis series The conference took place in Berlin Germany August 28 30 2003 IDA has by now clearly grown up Started as a small si symposium of a larger conference in 1995 in Baden Baden Germany it quickly attracted more interest both submission and attendance wise and moved from London 1997 to Amsterdam 1999 and two years ago to Lisbon Submission

ratesalongwiththeeverimprovingqualityofpapershaveenabledtheor nizers to assemble increasingly consistent and high quality programs This year we were again overwhelmed by yet another record breaking submission rate of 180 papers At the Program Chairs meeting we were based on roughly 500 reviews in the lucky position of carefully selecting 17 papers for oral and 42 for poster presentation Poster presenters were given the opportunity to summarize their papers in 3 minute spotlight presentations The oral spotlight and poster presentations were then scheduled in a single track 2 5 day conference program summarized in this book In accordance with the goal of IDA to bring together researchers from diverse disciplines we

achieved a nice balance of presentations from the more theoreticalside bothstatistics and computerscience as well as more application oriented areas that illustrate how these techniques can be used in practice Work presented in these proceedings ranges from theoretical contributions dealing for example with data cleaning and compression all the way to papers addressing practical problems in the areas of text classication and sales rate predictions A considerable number of papers also center around the currently so popular applications in bioinformatics Advances in Intelligent Data Analysis V Michael Berthold, 2003-08-21 This book constitutes the refereed proceedings of the 5th International Conference on Intelligent Data Analysis IDA 2003 held in Berlin Germany in August 2003 The 56 revised papers presented were carefully reviewed and selected from 180 submissions The papers are organized in topical sections on machine learning probability and topology classification and pattern recognition clustering applications modeling and data processing

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Table of Contents The Fifth Text Retrieval Conference

- 1. Understanding the eBook The Fifth Text Retrieval Conference
 - The Rise of Digital Reading The Fifth Text Retrieval Conference
 - Advantages of eBooks Over Traditional Books
- 2. Identifying The Fifth Text Retrieval Conference
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Fifth Text Retrieval Conference
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from The Fifth Text Retrieval Conference
 - Personalized Recommendations
 - The Fifth Text Retrieval Conference User Reviews and Ratings
 - The Fifth Text Retrieval Conference and Bestseller Lists
- 5. Accessing The Fifth Text Retrieval Conference Free and Paid eBooks
 - The Fifth Text Retrieval Conference Public Domain eBooks
 - The Fifth Text Retrieval Conference eBook Subscription Services
 - The Fifth Text Retrieval Conference Budget-Friendly Options
- 6. Navigating The Fifth Text Retrieval Conference eBook Formats

- o ePub, PDF, MOBI, and More
- The Fifth Text Retrieval Conference Compatibility with Devices
- The Fifth Text Retrieval Conference Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Fifth Text Retrieval Conference
 - Highlighting and Note-Taking The Fifth Text Retrieval Conference
 - Interactive Elements The Fifth Text Retrieval Conference
- 8. Staying Engaged with The Fifth Text Retrieval Conference
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Fifth Text Retrieval Conference
- 9. Balancing eBooks and Physical Books The Fifth Text Retrieval Conference
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Fifth Text Retrieval Conference
- 10. Overcoming Reading Challenges
 - $\circ\,$ Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine The Fifth Text Retrieval Conference
 - Setting Reading Goals The Fifth Text Retrieval Conference
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of The Fifth Text Retrieval Conference
 - Fact-Checking eBook Content of The Fifth Text Retrieval Conference
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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