

Donna Harman

Information Retrieval Evaluation

Information Retrieval Evaluation Donna Harman

Julia Schneider



Information Retrieval Evaluation Donna Harman:

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.

Information Retrieval Meets Information Visualization Maristella Agosti, Nicola Ferro, Pamela Forner, Henning Müller, Giuseppe Santucci, 2013-01-24 The research domains information retrieval and information visualization have always been independent from each other. However they have the potential to be mutually beneficial. With this in mind a writer school was organized in Zinal Switzerland in January 2012 within the context of the EU funded research project PROMISE. Participative Research Laboratory for Multimedia and Multilingual Information Systems Evaluation. PROMISE aims at advancing the experimental evaluation of complex multimedia and multilingual information systems in order to support individuals, commercial entities and communities who design, develop, employ and improve such complex systems. The overall goal of PROMISE is to deliver a unified environment collecting data, knowledge, tools and methodologies and to help the user community involved in experimental evaluation. This book constitutes the outcome of the PROMISE Winter School 2012 and contains 11 invited lectures from the research domains information retrieval and information visualization. A large variety of subjects are covered including hot topics such as crowdsourcing and social media.

Fuzzy Information Retrieval Donald H. Kraft, Erin Colvin, 2022-06-01 Information retrieval used to mean looking through thousands of strings of texts to find words or symbols

that matched a user's query. Today there are many models that help index and search more effectively so retrieval takes a lot less time. Information retrieval (IR) is often seen as a subfield of computer science and shares some modeling applications, storage applications, and techniques as do other disciplines like artificial intelligence, database management, and parallel computing. This book introduces the topic of IR and how it differs from other computer science disciplines. A discussion of the history of modern IR is briefly presented, and the notation of IR as used in this book is defined. The complex notation of relevance is discussed. Some applications of IR are noted as well, since IR has many practical uses today. Using information retrieval with fuzzy logic to search for software terms can help find software components and ultimately help increase the reuse of software. This is just one practical application of IR that is covered in this book. Some of the classical models of IR are presented as a contrast to extending the Boolean model. This includes a brief mention of the source of weights for the various models. In a typical retrieval environment, answers are either yes or no, i.e., on or off. On the other hand, fuzzy logic can bring in a degree of match vs. a crisp, i.e., strict match. This too is looked at and explored in much detail, showing how it can be applied to information retrieval. Fuzzy logic is often times considered a soft computing application, and this book explores how IR with fuzzy logic and its membership functions as weights can help indexing, querying, and matching. Since fuzzy set theory and logic is explored in IR systems, the explanation of where the fuzziness ensues. The concept of relevance feedback, including pseudorelevance feedback, is explored for the various models of IR. For the extended Boolean model, the use of genetic algorithms for relevance feedback is delved into. The concept of query expansion is explored using rough set theory. Various term relationships are modeled and presented, and the model is extended for fuzzy retrieval. An example using the UMLS terms is also presented. The model is also extended for term relationships beyond synonyms. Finally, this book looks at clustering both crisp and fuzzy to see how that can improve retrieval performance. An example is presented to illustrate the concepts.

Evaluation of Cross-Language Information Retrieval Systems Martin Braschler, Julio Gonzalo, Michael

Kluck, 2003-08-02. The second evaluation campaign of the Cross Language Evaluation Forum (CLEF) for European languages was held from January to September 2001. This campaign proved a great success and showed an increase in participation of around 70% compared with CLEF 2000. It culminated in a two-day workshop in Darmstadt, Germany, 3-4 September, in conjunction with the 5th European Conference on Digital Libraries (ECDL 2001). On the first day of the workshop, the results of the CLEF 2001 evaluation campaign were reported and discussed in paper and poster sessions. The second day focused on the current needs of cross language systems and how evaluation campaigns in the future can best be designed to stimulate progress. The workshop was attended by nearly 50 researchers and system developers from both academia and industry. It provided an important opportunity for researchers working in the same area to get together and exchange ideas and experiences. Copies of all the presentations are available on the CLEF web site at <http://www.clef-campaign.org>. This volume contains thoroughly revised and expanded versions of the papers presented at the workshop and provides an exhaustive

record of the CLEF 2001 campaign CLEF 2001 was conducted as an activity of the DELOS Network of Excellence for Digital Libraries funded by the EC Information Society Technologies program to further research in digital library technologies The activity was organized in collaboration with the US National Institute of Standards and Technology NIST

Predicting Information Retrieval Performance Robert M. Losee, 2022-05-31 Information Retrieval performance measures are usually retrospective in nature representing the effectiveness of an experimental process However in the sciences phenomena may be predicted given parameter values of the system After developing a measure that can be applied retrospectively or can be predicted performance of a system using a single term can be predicted given several different types of probabilistic distributions Information Retrieval performance can be predicted with multiple terms where statistical dependence between terms exists and is understood These predictive models may be applied to realistic problems and then the results may be used to validate the accuracy of the methods used The application of metadata or index labels can be used to determine whether or not these features should be used in particular cases Linguistic information such as part of speech tag information can increase the discrimination value of existing terminology and can be studied predictively This work provides methods for measuring performance that may be used predictively Means of predicting these performance measures are provided both for the simple case of a single term in the query and for multiple terms Methods of applying these formulae are also suggested

Cross-Language Information Retrieval and Evaluation Carol Peters, 2003-06-29 The first evaluation campaign of the Cross Language Evaluation Forum CLEF for European languages was held from January to September 2000 The campaign culminated in a two day workshop in Lisbon Portugal 21-22 September immediately following the fourth European Conference on Digital Libraries ECDL 2000 The first day of the workshop was open to anyone interested in the area of Cross Language Information Retrieval CLIR and addressed the topic of CLIR system evaluation The goal was to identify the actual contribution of evaluation to system development and to determine what could be done in the future to stimulate progress The second day was restricted to participants in the CLEF 2000 evaluation campaign and to their experiments This volume constitutes the proceedings of the workshop and provides a record of the campaign CLEF is currently an activity of the DELOS Network of Excellence for Digital Libraries funded by the EC Information Society Technologies to further research in digital library technologies The activity is organized in collaboration with the US National Institute of Standards and Technology NIST The support of DELOS and NIST in the running of the evaluation campaign is gratefully acknowledged I should also like to thank the other members of the Workshop Steering Committee for their assistance in the organization of this event

The Future of Personal Information Management, Part I William Jones, 2022-06-01 We are well into a second age of digital information Our information is moving from the desktop to the laptop to the palmtop and up into an amorphous cloud on the Web How can one manage both the challenges and opportunities of this new world of digital information What does the future hold This book provides an important update on the rapidly expanding field of personal

information management PIM Part I Always and Forever introduces the essentials of PIM Information is personal for many reasons It s the information on our hard drives we couldn t bear to lose It s the information about us that we don t want to share It s the distracting information demanding our attention even as we try to do something else It s the information we don t know about but need to Through PIM we control personal information We integrate information into our lives in useful ways We make it ours With basics established Part I proceeds to explore a critical interplay between personal information always at hand through mobile devices and forever on the Web How does information stay ours in such a world Part II Building Places of Our Own for Digital Information will be available in the Summer of 2012 and will consist of the following chapters Chapter 5 Technologies to eliminate PIM We have seen astonishing advances in the technologies of information management in particular to aid in the storing structuring and searching of information These technologies will certainly change the way we do PIM will they eliminate the need for PIM altogether Chapter 6 GIM and the social fabric of PIM We don t and shouldn t manage our information in isolation Group information management GIM especially the kind practiced more informally in households and smaller project teams goes hand in glove with good PIM Chapter 7 PIM by design Methodologies principles questions and considerations as we seek to understand PIM better and to build PIM into our tools techniques and training Chapter 8 To each of us our own Just as we must each be a student of our own practice of PIM we must also be a designer of this practice This concluding chapter looks at tips traps and tradeoffs as we work to build a practice of PIM and places of our own for personal information Table of Contents A New Age of Information The Basics of PIM Our Information Always at Hand Our Information Forever on the Web

Quantifying Research Integrity Michael Seadle, 2022-05-31 Institutions typically treat research integrity violations as black and white right or wrong The result is that the wide range of grayscale nuances that separate accident carelessness and bad practice from deliberate fraud and malpractice often get lost This lecture looks at how to quantify the grayscale range in three kinds of research integrity violations plagiarism data falsification and image manipulation Quantification works best with plagiarism because the essential one to one matching algorithms are well known and established tools for detecting when matches exist Questions remain however of how many matching words of what kind in what location in which discipline constitute reasonable suspicion of fraudulent intent Different disciplines take different perspectives on quantity and location Quantification is harder with data falsification because the original data are often not available and because experimental replication remains surprisingly difficult The same is true with image manipulation where tools exist for detecting certain kinds of manipulations but where the tools are also easily defeated This lecture looks at how to prevent violations of research integrity from a pragmatic viewpoint and at what steps can institutions and publishers take to discourage problems beyond the usual ethical admonitions There are no simple answers but two measures can help the systematic use of detection tools and requiring original data and images These alone do not suffice but they represent a start The scholarly community needs a better

awareness of the complexity of research integrity decisions Only an open and wide spread international discussion can bring about a consensus on where the boundary lines are and when grayscale problems shade into black One goal of this work is to move that discussion forward

Information Architecture Wei Ding,Xia Lin,Michael Zarro,2022-06-01 Information Architecture is about organizing and simplifying information designing and integrating information spaces systems and creating ways for people to find and interact with information content Its goal is to help people understand and manage information and make the right decisions accordingly This updated and revised edition of the book looks at integrated information spaces in the web context and beyond with a focus on putting theories and principles into practice In the ever changing social organizational and technological contexts information architects not only design individual information spaces e g websites software applications and mobile devices but also tackle strategic aggregation and integration of multiple information spaces across websites channels modalities and platforms Not only do they create predetermined navigation pathways but they also provide tools and rules for people to organize information on their own and get connected with others Information architects work with multi disciplinary teams to determine the user experience strategy based on user needs and business goals and make sure the strategy gets carried out by following the user centered design UCD process via close collaboration with others Drawing on the authors extensive experience as HCI researchers User Experience Design practitioners and Information Architecture instructors this book provides a balanced view of the IA discipline by applying theories design principles and guidelines to IA and UX practices It also covers advanced topics such as iterative design UX decision support and global and mobile IA considerations Major revisions include moving away from a web centric view toward multi channel multi device experiences Concepts such as responsive design emerging design principles and user centered methods such as Agile Lean UX and Design Thinking are discussed and related to IA processes and practices

Information Retrieval Systems Gerald J. Kowalski,2007-08-23 The growth of the Internet and the availability of enormous volumes of data in digital form have necessitated intense interest in techniques to assist the user in locating data of interest The Internet has over 350 million pages of data and is expected to reach over one billion pages by the year 2000 Buried on the Internet are both valuable nuggets to answer questions as well as a large quantity of information the average person does not care about The Digital Library effort is also progressing with the goal of migrating from the traditional book environment to a digital library environment The challenge to both authors of new publications that will reside on this information domain and developers of systems to locate information is to provide the information and capabilities to sort out the non relevant items from those desired by the consumer In effect as we proceed down this path it will be the computer that determines what we see versus the human being The days of going to a library and browsing the new book shelf are being replaced by electronic searching the Internet or the library catalogs Whatever the search engines return will constrain our knowledge of what information is available An understanding of Information Retrieval Systems puts this new

environment into perspective for both the creator of documents and the consumer trying to locate information

The Enigmatic Realm of **Information Retrieval Evaluation Donna Harman**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Information Retrieval Evaluation Donna Harman** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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Information Retrieval Evaluation Donna Harman Introduction

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