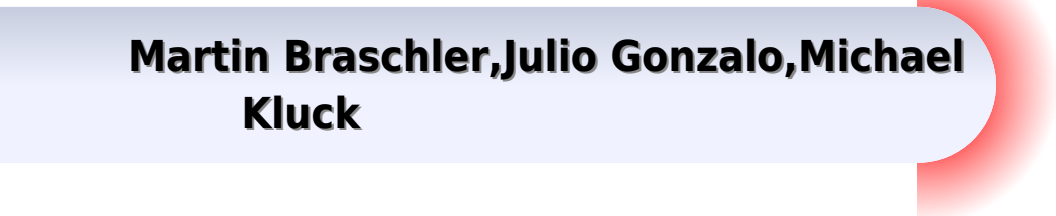


Donna Harman

Information Retrieval Evaluation

Information Retrieval Evaluation Donna Harman

**Martin Braschler, Julio Gonzalo, Michael
Kluck**



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.

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

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

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 is 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 is 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 fuzz is 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 is modeled and presented and the model 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

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

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

Building a Better World with Our Information William Jones, 2022-05-31 Part 1 in The Future of series covers the fundamentals of personal information management PIM and then explores the seismic shift already well underway toward a world where our information is always at hand thanks to our devices and forever on the web Part 2 Transforming Technologies to Manage Our Information provides a more focused look at technologies for managing information The opening chapter discusses natural interface technologies of input output to free us from keyboard screen and mouse Successive chapters then explore technologies to save search and structure our information A concluding chapter introduces the possibility that we may see dramatic reductions in the clerical tax we pay as we work with our information Focus in this concluding Part 3 to the series shifts to the practical and to the near future What can we do now or soon to manage our information better And as we do so how might we build a better world Part 3 is in three chapters Chapter 10 Group Information Management and the Social Fabric in PIM How do we preserve and promote our PIM practices as we interact with others at home at school at work at play and in wider even global communities Chapter 11 PIM by Design What principles guide us How can developers build better tools for PIM How can the rest of us make better use of the tools we already have Chapter 12 To Each of Us Our Own concludes with an exploration of the ways each of us individually can develop better practices for the management of our information in service of the lives we wish to live and toward a better world we all must share

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 periments 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 braries 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

On the Efficient Determination of Most Near Neighbors Mark S. Manasse, 2022-05-31 The time worn aphorism close only counts in

horseshoes and hand grenades is clearly inadequate Close also counts in golf shuffleboard archery darts curling and other games of accuracy in which hitting the precise center of the target isn't to be expected every time or in which we can expect to be driven from the target by skilled opponents This book is not devoted to sports discussions but to efficient algorithms for determining pairs of closely related web pages and a few other situations in which we have found that inexact matching is good enough where proximity suffices We will not however attempt to be comprehensive in the investigation of probabilistic algorithms approximation algorithms or even techniques for organizing the discovery of nearest neighbors We are more concerned with finding nearby neighbors if they are not particularly close by we are not particularly interested In thinking of when approximation is sufficient remember the oft told joke about two campers sitting around after dinner They hear noises coming towards them One of them reaches for a pair of running shoes and starts to don them The second then notes that even with running shoes they cannot hope to outrun a bear to which the first notes that most likely the bear will be satiated after catching the slower of them We seek problems in which we don't need to be faster than the bear just faster than the others fleeing the bear

Transforming Technologies to Manage Our Information William Jones, 2022-05-31 With its theme Our Information Always and Forever Part I of this book covers the basics of personal information management PIM including six essential activities of PIM and six different ways in which information can be personal to us Part I then goes on to explore key issues that arise in the great migration of our information onto the Web and into a myriad of mobile devices Part 2 provides a more focused look at technologies for managing information that promise to profoundly alter our practices of PIM and through these practices the way we lead our lives Part 2 is in five chapters Chapter 5 Technologies of Input and Output Technologies in support of gesture touch voice and even eye movements combine to support a more natural user interface NUI Technologies of output include glasses and watch watches Output will also increasingly be animated with options to zoom Chapter 6 Technologies to Save Our Information We can opt for life logs to record our experiences with increasing fidelity What will we use these logs for And what isn't recorded that should be Chapter 7 Technologies to Search Our Information The potential for personalized search is enormous and mostly yet to be realized Persistent searches situated in our information landscape will allow us to maintain a diversity of projects and areas of interest without a need to continually switch from one to another to handle incoming information Chapter 8 Technologies to Structure Our Information Structure is key if we are to keep find and make effective use of our information But how best to structure And how best to share structured information between the applications we use with other people and also with ourselves over time What lessons can we draw from the failures and successes in web based efforts to share structure Chapter 9 PIM Transformed and Transforming Stories from the Past Present and Future Part 2 concludes with a comparison between Licklider's world of information in 1957 and our own world of information today And then we consider what the world of information is likely to look like in 2057 Licklider estimated that he spent 85% of his thinking time in activities that were clerical and mechanical

and might someday be delegated to the computer What percentage of our own time is spent with the clerical and mechanical What about in 2057 *Researching Serendipity in Digital Information Environments* Lori McCay-Peet, Elaine G.

Toms, 2022-05-31 Chance luck and good fortune are the usual go to descriptors of serendipity a phenomenon aptly often coupled with famous anecdotes of accidental discoveries in engineering and science in modern history such as penicillin Teflon and Post it notes Serendipity however is evident in many fields of research in organizations in everyday life and there is more to it than luck implies While the phenomenon is strongly associated with in person interactions with people places and things most attention of late has focused on its preservation and facilitation within digital information environments Serendipity's association with unexpected positive user experiences and outcomes has spurred an interest in understanding both how current digital information environments support serendipity and how novel approaches may be developed to facilitate it Research has sought to understand serendipity how it is manifested in people's personality traits and behaviors how it may be facilitated in digital information environments such as mobile applications and its impacts on an individual an organizational and a wider level Because serendipity is expressed and understood in different ways in different contexts multiple methods have been used to study the phenomenon and evaluate digital information environments that may support it This volume brings together different disciplinary perspectives and examines the motivations for studying serendipity the various ways in which serendipity has been approached in the research methodological approaches to build theory and how it may be facilitated Finally a roadmap for serendipity research is drawn by integrating key points from this volume to produce a framework for the examination of serendipity in digital information environments *Incidental Exposure to Online News* Borchuluun Yadamsuren, Sanda Erdelez, 2022-05-31 Rapid technological changes and availability of news anywhere and at any moment have changed how people seek out news Increasingly consumers no longer take deliberate actions to read the news instead stumbling upon news online While the emergence of serendipitous news discovery online has been recognized in the literature there is a limited understanding about how people experience this behavior Based on the mixed method study that investigated online news reading behavior of residents in a Midwestern U S town we explore how people accidentally discover news when engaged in various online activities Employing the grounded theory approach we define Incidental Exposure to Online News IEON as individual's memorable experiences of chance encounters with interesting useful or surprising news while using the Internet for news browsing or for non news related online activities such as checking email or visiting social networking sites The book presents a conceptual framework of IEON that advances research and an understanding of serendipitous news discovery from people's holistic experiences of news consumption in their everyday lives The proposed IEON Process Model identifies key steps in an IEON experience that could help news reporters and developers of online news platforms create innovative storytelling and design strategies to catch consumers attention during their online activities Finally this book raises important methodological questions for further investigation how should

serendipitous news discovery be studied measured and observed and what are the essential elements that differentiate this behavior from other types of online news consumption and information behaviors

Measuring User Engagement Mounia Lalmas, Heather O'Brien, Elad Yom-Tov, 2022-05-31 User engagement refers to the quality of the user experience that emphasizes the positive aspects of interacting with an online application and in particular the desire to use that application longer and repeatedly User engagement is a key concept in the design of online applications whether for desktop tablet or mobile motivated by the observation that successful applications are not just used but are engaged with Users invest time attention and emotion in their use of technology and seek to satisfy pragmatic and hedonic needs Measurement is critical for evaluating whether online applications are able to successfully engage users and may inform the design of and use of applications User engagement is a multifaceted complex phenomenon this gives rise to a number of potential measurement approaches Common ways to evaluate user engagement include using self report measures e g questionnaires observational methods e g facial expression analysis speech analysis neuro physiological signal processing methods e g respiratory and cardiovascular accelerations and decelerations muscle spasms and web analytics e g number of site visits click depth These methods represent various trade offs in terms of the setting laboratory versus in the wild object of measurement user behaviour affect or cognition and scale of data collected For instance small scale user studies are deep and rich but limited in terms of generalizability whereas large scale web analytic studies are powerful but negate users motivation and context The focus of this book is how user engagement is currently being measured and various considerations for its measurement Our goal is to leave readers with an appreciation of the various ways in which to measure user engagement and their associated strengths and weaknesses We emphasize the multifaceted nature of user engagement and the unique contextual constraints that come to bear upon attempts to measure engagement in different settings and across different user groups and web domains At the same time this book advocates for the development of good measures and good measurement practices that will advance the study of user engagement and improve our understanding of this construct which has become so vital in our wired world

Learning from Multiple Social Networks Liqiang Nie, Xuemeng Song, Tat-Seng Chua, 2022-05-31 With the proliferation of social network services more and more social users such as individuals and organizations are simultaneously involved in multiple social networks for various purposes In fact multiple social networks characterize the same social users from different perspectives and their contexts are usually consistent or complementary rather than independent Hence as compared to using information from a single social network appropriate aggregation of multiple social networks offers us a better way to comprehensively understand the given social users Learning across multiple social networks brings opportunities to new services and applications as well as new insights on user online behaviors yet it raises tough challenges

- 1 How can we map different social network accounts to the same social users
- 2 How can we complete the item wise and block wise missing data
- 3 How can we leverage the relatedness among sources to strengthen the learning performance

And

4 How can we jointly model the dual heterogeneities multiple tasks exist for the given application and each task has various features from multiple sources These questions have been largely unexplored to date We noticed this timely opportunity and in this book we present some state of the art theories and novel practical applications on aggregation of multiple social networks In particular we first introduce multi source dataset construction We then introduce how to effectively and efficiently complete the item wise and block wise missing data which are caused by the inactive social users in some social networks We next detail the proposed multi source mono task learning model and its application in volunteerism tendency prediction As a counterpart we also present a mono source multi task learning model and apply it to user interest inference We seamlessly unify these models with the so called multi source multi task learning and demonstrate several application scenarios such as occupation prediction Finally we conclude the book and figure out the future research directions in multiple social network learning including the privacy issues and source complementarity modeling This is preliminary research on learning from multiple social networks and we hope it can inspire more active researchers to work on this exciting area If we have seen further it is by standing on the shoulders of giants

Word Association Thematic Analysis

Mike Thelwall,2021-02-02 This book explains the word association thematic analysis method with examples and gives practical advice for using it It is primarily intended for social media researchers and students although the method is applicable to any collection of short texts Many research projects involve analyzing sets of texts from the social web or elsewhere to get insights into issues opinions interests news discussions or communication styles For example many studies have investigated reactions to Covid 19 social distancing restrictions conspiracy theories and anti vaccine sentiment on social media This book describes word association thematic analysis a mixed methods strategy to identify themes within a collection of social web or other texts It identifies these themes in the differences between subsets of the texts including female vs male vs nonbinary older vs newer country A vs country B positive vs negative sentiment high scoring vs low scoring or subtopic A vs subtopic B It can also be used to identify the differences between a topic focused collection of texts and a reference collection The method starts by automatically finding words that are statistically significantly more common in one subset than another then identifies the context of these words and groups them into themes It is supported by the free Windows based software Mozdeh for data collection or importing and for the quantitative analysis stages

Social Media and

Library Services Lorri Mon,2022-05-31 The rise of social media technologies has created new ways to seek and share information for millions of users worldwide but also has presented new challenges for libraries in meeting users where they are within social spaces From social networking sites such as Facebook and Google and microblogging platforms such as Twitter and Tumblr to the image and video sites of YouTube Flickr Instagram and to geotagging sites such as Foursquare libraries have responded by establishing footholds within a variety of social media platforms and seeking new ways of engaging with online users in social spaces Libraries are also responding to new social review sites such as Yelp and

Tripadvisor awareness sites including StumbleUpon Pinterest Goodreads and Reddit and social question and answer Q A sites such as Yahoo Answers sites which engage social media users in functions similar to traditional library content curation readers advisory information and referral and reference services Establishing a social media presence extends the library s physical manifestation into virtual space and increases the library s visibility reach and impact However beyond simply establishing a social presence for the library a greater challenge is building effective and engaging social media sites that successfully adapt a library s visibility voice and presence to the unique contexts audiences and cultures within diverse social media sites This lecture examines the research and theory on social media and libraries providing an overview of what is known and what is not yet known about libraries and social media Chapter 1 focuses on the social media environments within which libraries are establishing a presence including how social media sites differ from each other yet work together within a social ecosphere Chapter 2 examines how libraries are engaging with users across a variety of social media platforms and the extent to which libraries are involved in using these different social media platforms as well as the activities of libraries in presenting a social self sharing information and interacting with users via social media Chapter 3 explores metrics and measures for assessing the impact of the library s activity in social media sites The book concludes with Chapter 4 on evolving directions for libraries and social media including potential implications of new and emerging technologies for libraries in social spaces Table of Contents Preface The Social Media Environment Libraries and Social Media Assessing Social Media Sites and Services Evolving Directions in Social Libraries Bibliography Author Biography

Social Informatics Evolving Pnina Fichman, Madelyn R. Sanfilippo, Howard Rosenbaum, 2022-05-31 The study of people information and communication technologies and the contexts in which these technologies are designed implemented and used has long interested scholars in a wide range of disciplines including the social study of computing science and technology studies the sociology of technology and management information systems As ICT use has spread from organizations into the larger world these devices have become routine information appliances in our social lives researchers have begun to ask deeper and more profound questions about how our lives have become bound up with technologies A common theme running through this research is that the relationships among people technology and context are dynamic complex and critically important to understand This book explores social informatics SI one important and dynamic approach that researchers have used to study these complex relationships SI is the interdisciplinary study of the design uses and consequences of information technology that takes into account their interaction with institutional and cultural contexts Kling 1998 p 52 1999 SI provides flexible frameworks to explore complex and dynamic socio technical interactions As a domain of study related largely by common vocabulary and conclusions SI critically examines common conceptions of and expectations for technology by providing contextual evidence This book describes the evolution of SI research and identifies challenges and opportunities for future research In what might be seen as an example of socio technical natural selection SI

emerged in six different locations during the 1980s and 1990s Norway Slovenia Japan the former Soviet Union the UK and last the U S As SI evolved the version popularized in the US became globally dominant The evolution of SI is presented in five stages emergence foundational expansion coherence and transformation Thus we divide SI research into five major periods an emergence stage when various forms of SI emerged around the globe an early period of foundational work which grounds SI Pre 1990s a period of expansion 1990s a robust period of coherence and influence by Rob Kling 2000 2005 and a period of transformation 2006 present Following the description of the five periods we discuss the evolution throughout the periods under five sections principles concepts approaches topics and findings Principles refer to the overarching motivations and labels employed to describe scholarly work Approaches describe the theories frameworks and models employed in analysis emphasizing the multi disciplinary and interdisciplinary nature of SI Concepts include specific processes entities themes and elements of discourse within a given context revealing a shared SI language surrounding change complexity consequences and social elements of technology Topics label the issues and general domains studied within social informatics ranging from scholarly communication to online communities to information systems Findings from seminal SI works illustrate growing insights over time and demonstrate how repeatable explanations unify SI In the concluding remarks we raise questions about the possible futures of SI research

Word Association Thematic Analysis Michael Thelwall, 2022-05-31 Many research projects involve analyzing sets of texts from the social web or elsewhere to get insights into issues opinions interests news discussions or communication styles For example many studies have investigated reactions to Covid 19 social distancing restrictions conspiracy theories and anti vaccine sentiment on social media This book describes word association thematic analysis a mixed methods strategy to identify themes within a collection of social web or other texts It identifies these themes in the differences between subsets of the texts including female vs male vs nonbinary older vs newer country A vs country B positive vs negative sentiment high scoring vs low scoring or subtopic A vs subtopic B It can also be used to identify the differences between a topic focused collection of texts and a reference collection The method starts by automatically finding words that are statistically significantly more common in one subset than another then identifies the context of these words and groups them into themes It is supported by the free Windows based software Mozdeh for data collection or importing and for the quantitative analysis stages This book explains the word association thematic analysis method with examples and gives practical advice for using it It is primarily intended for social media researchers and students although the method is applicable to any collection of short texts

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Information Retrieval Evaluation Donna Harman Introduction

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