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The Answer Machine

Susan E. Feldman

*SYNTHESIS LECTURES ON INFORMATION
CONCEPTS, RETRIEVAL, AND SERVICES*

Gary Marchionini, *Series Editor*

The Answer Machine Susan Feldman

Jiqun Liu, Chirag Shah



The Answer Machine Susan Feldman:

The Answer Machine Susan Feldman, 2012-10-01 The Answer Machine is a practical non technical guide to the technologies behind information seeking and analysis It introduces search and content analytics to software buyers knowledge managers and searchers who want to understand and design effective online environments The book describes how search evolved from an expert only to an end user tool It provides an overview of search engines categorization and clustering natural language processing content analytics and visualization technologies Detailed profiles for Web search eCommerce search eDiscovery and enterprise search contrast the types of users uses tasks technologies and interaction designs for each These variables shape each application although the underlying technologies are the same Types of information tasks and the trade offs between precision and recall time volume and precision and privacy vs personalization are discussed within this context The book examines trends toward convenient context aware computing big data and analytics technologies conversational systems and answer machines The Answer Machine explores IBM Watson s DeepQA technology and describes how it is used to answer health care and Jeopardy questions The book concludes by discussing the implications of these advances how they will change the way we run our businesses practice medicine govern or conduct our lives in the digital age Table of Contents Introduction The Query Process and Barriers to Finding Information Online Online Search An Evolution Search and Discovery Technologies An Overview Information Access A Spectrum of Needs and Uses Future Tense The Next Era in Information Access and Discovery Answer Machines

The Answer Machine Susan Feldman, 2022-06-01 The Answer Machine is a practical non technical guide to the technologies behind information seeking and analysis It introduces search and content analytics to software buyers knowledge managers and searchers who want to understand and design effective online environments The book describes how search evolved from an expert only to an end user tool It provides an overview of search engines categorization and clustering natural language processing content analytics and visualization technologies Detailed profiles for Web search eCommerce search eDiscovery and enterprise search contrast the types of users uses tasks technologies and interaction designs for each These variables shape each application although the underlying technologies are the same Types of information tasks and the trade offs between precision and recall time volume and precision and privacy vs personalization are discussed within this context The book examines trends toward convenient context aware computing big data and analytics technologies conversational systems and answer machines The Answer Machine explores IBM Watson s DeepQA technology and describes how it is used to answer health care and Jeopardy questions The book concludes by discussing the implications of these advances how they will change the way we run our businesses practice medicine govern or conduct our lives in the digital age Table of Contents Introduction The Query Process and Barriers to Finding Information Online Online Search An Evolution Search and Discovery Technologies An Overview Information Access A Spectrum of Needs and Uses Future Tense The Next Era in

Information Access and Discovery Answer Machines The Taxobook Marjorie M.K. Hlava,2022-06-01 This book is the third of a three part series on taxonomies and covers putting your taxonomy into use in as many ways as possible to maximize retrieval for your users Chapter 1 suggests several items to research and consider before you start your implementation and integration process It explores the different pieces of software that you will need for your system and what features to look for in each Chapter 2 launches with a discussion of how taxonomy terms can be used within a workflow connecting two or more taxonomies and intelligent coordination of platforms and taxonomies Microsoft SharePoint is a widely used and popular program and I consider their use of taxonomies in this chapter Following that is a discussion of taxonomies and semantic integration and then the relationship between indexing and the hierarchy of a taxonomy Chapter 3 How is a Taxonomy Connected to Search provides discussions and examples of putting taxonomies into use in practical applications It discusses displaying content based on search how taxonomy is connected to search using a taxonomy to guide a searcher tools for search including search engines crawlers and spiders and search software the parts of a search capable system and then how to assemble that search capable system This chapter also examines how to measure quality in search the different kinds of search and theories on search from several famous theoreticians two from the 18th and 19th centuries and two contemporary Following that is a section on inverted files parsing discovery and clustering While you probably don t need a comprehensive understanding of these concepts to build a solid workable system enough information is provided for the reader to see how they fit into the overall scheme This chapter concludes with a look at faceted search and some possibilities for search interfaces Chapter 4 Implementing a Taxonomy in a Database or on a Website starts where many content systems really should with the authors or at least the people who create the content This chapter discusses matching up various groups of related data to form connections data visualization and text analytics and mobile and e commerce applications for taxonomies Finally Chapter 5 presents some educated guesses about the future of knowledge organization Table of Contents List of Figures Preface Acknowledgments On Your Mark Get Ready WAIT Things to Know Before You Start the Implementation Step Taxonomy and Thesaurus Implementation How is a Taxonomy Connected to Search Implementing a Taxonomy in a Database or on a Website What Lies Ahead for Knowledge Organization Glossary End Notes Author Biography **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

Digital Library Technologies Edward A. Fox, Ricardo da Silva Torres, 2022-06-01 Digital libraries DLs have introduced new technologies as well as leveraging enhancing and integrating related technologies since the early 1990s These efforts have been enriched through a formal approach e g the 5S Societies Scenarios Spaces Structures Streams framework which is discussed in two earlier volumes in this series This volume should help advance work not only in DLs but also in the WWW and other information systems Drawing upon four Kozevitch Murthy Park Yang completed and three Elsherbiny Farag Srinivasan in process dissertations as well as the efforts of collaborating researchers and scores of related publications presentations tutorials and reports this book should advance the DL field with regard to at least six key technologies By integrating surveys of the state of the art new research connections with formalization case studies and exercises projects this book can serve as a computing or information science textbook It can support studies in cyber security document management hypertext hypermedia IR knowledge management LIS multimedia and machine learning Chapter 1 with a case study on fingerprint collections focuses on complex composite compound objects connecting DL and related work on buckets DCC and OAI ORE Chapter 2 discussing annotations as in hypertext hypermedia emphasizes parts of documents including images as well as text managing superimposed information The SuperIDR system and prototype efforts with Flickr should motivate further development and standardization related to annotation which would benefit all DL and WWW users Chapter 3 on ontologies explains how they help with browsing query expansion focused crawling and classification This chapter connects DLs with the Semantic Web and uses CTRnet as an example Chapter 4 on hierarchical classification leverages LIS theory as well as machine learning and is important for DLs as well as the WWW Chapter 5 on extraction from text covers document segmentation as well as how to construct a database from heterogeneous collections of references from ETDs i e converting strings to canonical forms Chapter 6 surveys the security approaches used in information systems and explains how those approaches can apply to digital libraries which are not fully open Given this rich content those interested in DLs will be able to find solutions to key problems using the right technologies and methods

We hope this book will help show how formal approaches can enhance the development of suitable technologies and how they can be better integrated with DLs and other information systems

Scholarly Collaboration on the Academic Social Web Daqing He, Wei Jeng, 2022-05-31 Collaboration among scholars has always been recognized as a fundamental feature of scientific discovery. The ever increasing diversity among disciplines and complexity of research problems makes it even more compelling to collaborate in order to keep up with the fast pace of innovation and advance knowledge. Along with the rapidly developing Internet communication technologies and the increasing popularity of the social web, we have observed many important developments of scholarly collaboration on the academic social web. In this book, we review the rapid transform of scholarly collaboration on various academic social web platforms and examine how these platforms have facilitated academics throughout their research lifecycle from forming ideas, collecting data, and authoring articles to disseminating findings. We refer to the term academic social web platforms in this book as a category of Web 2.0 tools or online platforms such as CiteULike, Mendeley, Academia.edu, and ResearchGate that enable and facilitate scholarly information exchange and participation. We will also examine scholarly collaboration behaviors including sharing academic resources, exchanging opinions, following each other's research, keeping up with current research trends, and most importantly, building up their professional networks. Inspired by the model developed by Olson et al. (2000) on factors for successful scientific collaboration, our examination of the status of scholarly collaboration on the academic social web has four emphases: technology readiness, coupling work, building common ground, and collaboration readiness. Finally, we talk about the insights and challenges of all these online scholarly collaboration activities imposed on the research communities who are engaging in supporting online scholarly collaboration. This book aims to help researchers and practitioners understand the development of scholarly collaboration on the academic social web and to build up an active community of scholars who are interested in this topic.

Information and Human Values Kenneth Fleischmann, 2022-06-01 This book seeks to advance our understanding of the relationship between information and human values by synthesizing the complementary but typically disconnected threads in the literature, reflecting on my 15 years of research on the relationship between information and human values, advancing our intellectual understanding of the key facets of this topic, and encouraging further research to continue exploring this important and timely research topic. The book begins with an explanation of what human values are and why they are important. Next, three distinct literatures on values, information, and technology are analyzed and synthesized, including the social psychology literature on human values, the information studies literature on the core values of librarianship, and the human computer interaction literature on value sensitive design. After that, three detailed case studies are presented based on reflections on a wide range of research studies. The first case study focuses on the role of human values in the design and use of educational simulations. The second case study focuses on the role of human values in the design and use of computational models. The final case study explores human values in

communication via about or using information technology The book concludes by laying out a values and design cycle for studying values in information and presenting an agenda for further research **The Taxobook** Marjorie Hlava, 2022-05-31 This book outlines the basic principles of creation and maintenance of taxonomies and thesauri It also provides step by step instructions for building a taxonomy or thesaurus and discusses the various ways to get started on a taxonomy construction project Often the first step is to get management and budgetary approval so I start this book with a discussion of reasons to embark on the taxonomy journey From there I move on to a discussion of metadata and how taxonomies and metadata are related and then consider how where and why taxonomies are used Information architecture has its cornerstone in taxonomies and metadata While a good discussion of information architecture is beyond the scope of this work I do provide a brief discussion of the interrelationships among taxonomies metadata and information architecture Moving on to the central focus of this book I introduce the basics of taxonomies including a definition of vocabulary control and why it is so important how indexing and tagging relate to taxonomies a few of the types of tagging and a definition and discussion of post and pre coordinate indexing After that I present the concept of a hierarchical structure for vocabularies and discuss the differences among various kinds of controlled vocabularies such as taxonomies thesauri authority files and ontologies Once you have a green light for your project what is the next step Here I present a few options for the first phase of taxonomy construction and then a more detailed discussion of metadata and markup languages I believe that it is important to understand the markup languages SGML and XML specifically and HTML to a lesser extent in relation to information structure and how taxonomies and metadata feed into that structure After that I present the steps required to build a taxonomy from defining the focus collecting and organizing terms analyzing your vocabulary for even coverage over subject areas filling in gaps creating relationships between terms and applying those terms to your content Here I offer a cautionary note don't believe that your taxonomy is done Regular scheduled maintenance is an important critical really component of taxonomy construction projects After you've worked through the steps in this book you will be ready to move on to integrating your taxonomy into the workflow of your organization This is covered in Book 3 of this series Table of Contents List of Figures Preface Acknowledgments Building a Case for Building a Taxonomy Taxonomy Basics Getting Started Terms The Building Blocks of a Taxonomy Building the Structure of Your Taxonomy Evaluation and Maintenance Standards and Taxonomies Glossary End Notes Author Biography **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

Interactive IR User Study Design, Evaluation, and Reporting Jiqun Liu, Chirag Shah, 2022-05-31 Since user study design has been widely applied in search interactions and information retrieval IR systems evaluation studies a deep reflection and meta evaluation of interactive IR IIR user studies is critical for sharpening the instruments of IIR research and improving the reliability and validity of the conclusions drawn from IIR user studies To this end we developed a faceted framework for supporting user study design reporting and evaluation based on a systematic review of the state of the art IIR research papers recently published in several top IR venues n 462 Within the framework we identify three major types of research focuses extract and summarize facet values from specific cases and highlight the under reported user study components which may significantly affect the results of research Then we employ the faceted framework in evaluating a series of IIR user studies against their respective research questions and explain the roles and impacts of the underlying connections and collaborations among different facet values Through bridging diverse combinations of facet values with the study design decisions made for addressing research problems the faceted framework can shed light on IIR user study design reporting and evaluation practices and help students and young researchers design and assess their own studies

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

Trustworthy Policies for Distributed Repositories Reagan W. Moore,Hao Xu,Mike Conway,Arcot Rajasekar,Jon Crabtree,Helen R. Tibbo,2022-05-31 A trustworthy repository provides assurance in the form of management documents event logs and audit trails that digital objects are being managed correctly The assurance includes plans for the sustainability of the repository the accession of digital records the management of technology evolution and the mitigation of the risk of data loss A detailed assessment is provided by the ISO 16363 2012 standard Space data and information transfer systems Audit and certification of trustworthy digital repositories This book examines whether the ISO specification for trustworthiness can be enforced by computer actionable policies An implementation of the policies is provided and the policies are sorted into categories for procedures to manage externally generated documents specify repository parameters specify preservation metadata attributes specify audit mechanisms for all preservation actions specify control of preservation operations and control preservation properties as technology evolves An application of the resulting procedures is made to enforce trustworthiness within National Science Foundation data management plans **Click Models for Web Search**

Aleksandr Chuklin,Ilya Markov,Maarten de Rijke,2022-05-31 With the rapid growth of web search in recent years the problem of modeling its users has started to attract more and more attention of the information retrieval community This has several motivations By building a model of user behavior we are essentially developing a better understanding of a user which ultimately helps us to deliver a better search experience A model of user behavior can also be used as a predictive device for non observed items such as document relevance which makes it useful for improving search result ranking Finally in many situations experimenting with real users is just infeasible and hence user simulations based on accurate models play an essential role in understanding the implications of algorithmic changes to search engine results or presentation changes to the search engine result page In this survey we summarize advances in modeling user click behavior on a web search engine result page We present simple click models as well as more complex models aimed at capturing non trivial user behavior patterns on modern search engine result pages We discuss how these models compare to each other what challenges they have and what ways there are to address these challenges We also study the problem of evaluating click models and discuss the main applications of click models *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.

Dynamic Information Retrieval Modeling Grace Hui Yang, Marc Sloan, Jun Wang, 2022-05-31. Big data and human computer information retrieval. HCIR are changing IR. They capture the dynamic changes in the data and dynamic interactions of users with IR systems. A dynamic system is one which changes or adapts over time or a sequence of events. Many modern IR systems and data exhibit these characteristics which are largely ignored by conventional techniques. What is missing is an ability for the model to change over time and be responsive to stimulus. Documents, relevance, users and tasks all exhibit dynamic behavior that is captured in data sets typically collected over long time spans and models need to respond to these changes. Additionally, the size of modern datasets enforces limits on the amount of learning a system can achieve. Further to this, advances in IR interface personalization and ad display demand models that can react to users in real time and in an intelligent contextual way. In this book we provide a comprehensive and up to date introduction to Dynamic Information Retrieval Modeling, the statistical modeling of IR systems that can adapt to change. We define dynamics, what it means within the context of IR and highlight examples of problems where dynamics play an important role. We cover techniques ranging from classic relevance feedback to the latest applications of partially observable Markov decision processes, POMDPs and a handful of useful algorithms and tools for solving IR problems incorporating dynamics. The theoretical component is based around the Markov Decision Process, MDP, a mathematical framework taken from the field of Artificial Intelligence, AI, that enables us to construct models that change according to sequential inputs. We define the framework and the algorithms commonly used to optimize over it and generalize it to the case where the inputs aren't reliable. We explore the topic of reinforcement learning more broadly and introduce another tool known as a Multi Armed Bandit which is useful for cases where exploring model parameters is beneficial. Following this we introduce theories and algorithms which can be used to incorporate dynamics into an IR model before presenting an array of state of the art

research that already does such as in the areas of session search and online advertising Change is at the heart of modern Information Retrieval systems and this book will help equip the reader with the tools and knowledge needed to understand Dynamic Information Retrieval Modeling **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

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 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?

Simulating Information Retrieval Test Collections David Hawking, Bodo Billerbeck, Paul Thomas, Nick Craswell, 2022-06-01. Simulated test collections may find application in situations where real datasets cannot easily be accessed due to confidentiality concerns or practical inconvenience. They can potentially support Information Retrieval (IR) experimentation, tuning, validation, performance prediction, and hardware sizing. Naturally, the accuracy and usefulness of results obtained from a simulation depend upon the fidelity and generality of the models which underpin it. The fidelity of emulation of a real corpus is likely to be limited by the requirement that confidential information in the real corpus should not be able to be extracted from the emulated version. We present a range of methods exploring trade-offs between emulation fidelity and degree of preservation of privacy. We present three different simple types of text generator which work at a micro level: Markov models, neural net models, and substitution ciphers. We also describe macro-level methods where we can engineer macro-properties of a corpus, giving a range of models for each of the salient properties: document length distribution, word frequency distribution for independent and non-independent cases, word length, and textual representation and corpus growth. We present results of emulating existing corpora and for scaling up corpora by two orders of magnitude. We show that simulated collections generated with relatively simple methods are suitable for some purposes and can be generated very quickly. Indeed, it may sometimes be feasible to embed a simple lightweight corpus generator into an indexer for the purpose of efficiency studies. Naturally, a corpus of artificial text cannot support IR experimentation in the absence of a set of compatible queries. We discuss and experiment with published methods for query generation and query log emulation. We present a proof of the pudding study in which we observe the predictive accuracy of efficiency and effectiveness results obtained on emulated versions of TREC corpora. The study includes three open-source retrieval systems and several TREC datasets. There is a trade-off between confidentiality and prediction accuracy, and there are interesting interactions between retrieval systems and datasets. Our tentative conclusion is that there are emulation methods which achieve useful prediction accuracy while providing a level of confidentiality adequate for many applications. Many of the methods described here have been implemented in the open-source project SynthaCorpus, accessible at <https://bitbucket.org/davidhawking/synthacorporus>.

Social Monitoring for Public Health Michael J. Paul, Mark Dredze, 2022-05-31. Public health thrives on high-quality evidence, yet acquiring meaningful data on a population remains a central challenge of public health research and practice. Social monitoring, the analysis of social media and other user-generated web data, has brought advances in the way we leverage population data to understand health. Social media offers advantages over traditional data sources, including real-time data availability, ease of

access and reduced cost Social media allows us to ask and answer questions we never thought possible This book presents an overview of the progress on uses of social monitoring to study public health over the past decade We explain available data sources common methods and survey research on social monitoring in a wide range of public health areas Our examples come from topics such as disease surveillance behavioral medicine and mental health among others We explore the limitations and concerns of these methods Our survey of this exciting new field of data driven research lays out future research directions

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