

Daniel Tunkelang

Faceted Search

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Rishiraj Saha Roy, Avishek Anand



Faceted Search Daniel Tunkelang:

Faceted Search Daniel Tunkelang,2009-10-08 We live in an information age that requires us more than ever to represent access and use information Over the last several decades we have developed a modern science and technology for information retrieval relentlessly pursuing the vision of a memex that Vannevar Bush proposed in his seminal article As We May Think Faceted search plays a key role in this program Faceted search addresses weaknesses of conventional search approaches and has emerged as a foundation for interactive information retrieval User studies demonstrate that faceted search provides more effective information seeking support to users than best first search Indeed faceted search has become increasingly prevalent in online information access systems particularly for e commerce and site search In this lecture we explore the history theory and practice of faceted search Although we cannot hope to be exhaustive our aim is to provide sufficient depth and breadth to offer a useful resource to both researchers and practitioners Because faceted search is an area of interest to computer scientists information scientists interface designers and usability researchers we do not assume that the reader is a specialist in any of these fields Rather we offer a self contained treatment of the topic with an extensive bibliography for those who would like to pursue particular aspects in more depth Table of Contents I Key Concepts Introduction What Are Facets Information Retrieval Faceted Information Retrieval II Research and Practice Academic Research Commercial Applications III Practical Concerns Back End Concerns Front End Concerns Conclusion Glossary

Faceted Search Daniel Tunkelang,2022-05-31 We live in an information age that requires us more than ever to represent access and use information Over the last several decades we have developed a modern science and technology for information retrieval relentlessly pursuing the vision of a memex that Vannevar Bush proposed in his seminal article As We May Think Faceted search plays a key role in this program Faceted search addresses weaknesses of conventional search approaches and has emerged as a foundation for interactive information retrieval User studies demonstrate that faceted search provides more effective information seeking support to users than best first search Indeed faceted search has become increasingly prevalent in online information access systems particularly for e commerce and site search In this lecture we explore the history theory and practice of faceted search Although we cannot hope to be exhaustive our aim is to provide sufficient depth and breadth to offer a useful resource to both researchers and practitioners Because faceted search is an area of interest to computer scientists information scientists interface designers and usability researchers we do not assume that the reader is a specialist in any of these fields Rather we offer a self contained treatment of the topic with an extensive bibliography for those who would like to pursue particular aspects in more depth Table of Contents I Key Concepts Introduction What Are Facets Information Retrieval Faceted Information Retrieval II Research and Practice Academic Research Commercial Applications III Practical Concerns Back End Concerns Front End Concerns Conclusion Glossary

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

Understanding User-Web Interactions via Web Analytics Bernard J. Jansen, 2022-06-01 This lecture presents an overview of the Web analytics process with a focus on providing insight and actionable outcomes from collecting and analyzing Internet data The lecture first provides an overview of Web analytics providing in essence a condensed version of the entire lecture The lecture then outlines the theoretical and methodological foundations of Web analytics in order to make obvious the strengths and shortcomings of Web analytics as an approach These foundational elements include the psychological basis in behaviorism and methodological underpinning of trace data as an empirical method These foundational elements are illuminated further through a brief history of Web analytics from the original transaction log studies in the 1960s through the information science investigations of library systems to the focus on Websites systems and applications Following a discussion of on going interaction data within the clickstream created using log files and page tagging for analytics of Website and search logs the lecture then presents a Web analytic process to convert these basic data to meaningful key performance indicators in order to measure likely converts that are tailored to the organizational goals or potential opportunities Supplementary data collection techniques are addressed including surveys and laboratory studies The overall goal of this lecture is to provide implementable information and a methodology for understanding Web analytics in order to improve Web systems increase customer satisfaction and target revenue through effective analysis of user Website interactions Table of Contents

Understanding Web Analytics The Foundations of Web Analytics Theory and Methods The History of Web Analytics Data Collection for Web Analytics Web Analytics Fundamentals Web Analytics Strategy Web Analytics as Competitive Intelligence Supplementary Methods for Augmenting Web Analytics Search Log Analytics Conclusion Key Terms Blogs for Further Reading References

Question Answering for the Curated Web Rishiraj Saha Roy, Avishek Anand, 2022-05-31 Question answering QA systems on the Web try to provide crisp answers to information needs posed in natural language replacing the traditional ranked list of documents QA posing a multitude of research challenges has emerged as one of the most actively investigated topics in information retrieval natural language processing and the artificial intelligence communities today The flip side of such diverse and active interest is that publications are highly fragmented across several venues in the above communities making it very difficult for new entrants to the field to get a good overview of the topic Through this book we make an attempt towards mitigating the above problem by providing an overview of the state of the art in question answering We cover the twin paradigms of curated Web sources used in QA tasks trusted text collections like Wikipedia and objective information distilled into large scale knowledge bases We discuss distinct methodologies that have been applied to solve the QA problem in both these paradigms using instantiations of recent systems for illustration We begin with an overview of the problem setup and evaluation cover notable sub topics like open domain multi hop and conversational QA in depth and conclude with key insights and emerging topics We believe that this resource is a valuable contribution towards a unified view on QA helping graduate students and researchers planning to work on this topic in the near future

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 **Key Issues Regarding Digital Libraries** Rao Shen, Marcos Andre Goncalves, Edward A. Fox, 2013-02-01 This is the second book based on the 5S Societies Scenarios Spaces Structures Streams approach to digital libraries DLs Leveraging the first volume on Theoretical Foundations we focus on the key issues of evaluation and integration These cross cutting issues serve as a bridge for those interested in DLs connecting the introduction and formal discussion in the first book with the coverage of key technologies in the third book and of illustrative applications in the fourth book These two topics have central importance in the DL field allowing it to be treated scientifically as well as practically In the scholarly world we only really understand something if we know how to measure and evaluate it In the Internet era of distributed information systems we only can be practical at scale if we integrate across both systems and their associated content Evaluation of DLs must take place at multiple levels so we can address the different entities and their associated measures Thus for digital objects we assess accessibility pertinence preservability relevance significance similarity and timeliness Other measures are specific to higher level constructs like metadata collections catalogs repositories and services We tie these together through a case study of the 5SQual tool which we designed and implemented to perform an automatic quantitative evaluation of DLs Thus across the Information Life Cycle we describe metrics and software useful to assess the quality of DLs and demonstrate utility with regard to representative application areas archaeology and education Though integration has been a challenge since the earliest work on DLs we provide the first comprehensive 5S based formal description of the DL integration problem cast in the context of related work Since archaeology is a fundamentally distributed enterprise we describe ETANADL for integrating Near Eastern Archeology sites and information Thus we show how 5S based modeling can lead to integrated services and content While the first book adopts a minimalist and formal approach to DLs and provides a systematic and functional method to design and implement DL exploring services here we broaden to practical DLs with richer metamodels demonstrating the power of 5S for integration and evaluation iRODS Primer Arcot Rajasekar, Reagan Moore, Chien-Yi Hou, Christopher A. Lee, Richard Marciano, Michael Wan, Wayne Schroder, Sheau-Yen Chen, 2022-05-31 Policy based data management enables the creation of community specific collections Every collection is created for a purpose The purpose defines the set of properties that will be associated with the collection The properties are enforced by management policies that control the execution of procedures that are applied whenever data are ingested or accessed The procedures generate state information that defines the outcome of enforcing the management policy The state information can be queried to validate assessment criteria and verify that the required collection properties have been conserved The integrated Rule Oriented Data System implements the data management framework required to support policy based data management Policies are turned into computer actionable Rules Procedures are composed from a Micro service oriented architecture The result is a highly extensible and tunable system that can enforce management policies automate administrative tasks and

periodically validate assessment criteria Table of Contents Introduction Integrated Rule Oriented Data System iRODS Architecture Rule Oriented Programming The iRODS Rule System iRODS Micro services Example Rules Extending iRODS Appendix A iRODS Shell Commands Appendix B Rulegen Grammar Appendix C Exercises Author Biographies

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

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

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Table of Contents Faceted Search Daniel Tunkelang

1. Understanding the eBook Faceted Search Daniel Tunkelang
 - The Rise of Digital Reading Faceted Search Daniel Tunkelang
 - Advantages of eBooks Over Traditional Books
2. Identifying Faceted Search Daniel Tunkelang
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Faceted Search Daniel Tunkelang
 - User-Friendly Interface
4. Exploring eBook Recommendations from Faceted Search Daniel Tunkelang
 - Personalized Recommendations

- Faceted Search Daniel Tunkelang User Reviews and Ratings
- Faceted Search Daniel Tunkelang and Bestseller Lists
- 5. Accessing Faceted Search Daniel Tunkelang Free and Paid eBooks
 - Faceted Search Daniel Tunkelang Public Domain eBooks
 - Faceted Search Daniel Tunkelang eBook Subscription Services
 - Faceted Search Daniel Tunkelang Budget-Friendly Options
- 6. Navigating Faceted Search Daniel Tunkelang eBook Formats
 - ePub, PDF, MOBI, and More
 - Faceted Search Daniel Tunkelang Compatibility with Devices
 - Faceted Search Daniel Tunkelang Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Faceted Search Daniel Tunkelang
 - Highlighting and Note-Taking Faceted Search Daniel Tunkelang
 - Interactive Elements Faceted Search Daniel Tunkelang
- 8. Staying Engaged with Faceted Search Daniel Tunkelang
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Faceted Search Daniel Tunkelang
- 9. Balancing eBooks and Physical Books Faceted Search Daniel Tunkelang
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Faceted Search Daniel Tunkelang
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Faceted Search Daniel Tunkelang
 - Setting Reading Goals Faceted Search Daniel Tunkelang
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Faceted Search Daniel Tunkelang
 - Fact-Checking eBook Content of Faceted Search Daniel Tunkelang

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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