

Daniel Tunkelang

# Faceted Search

# Faceted Search Daniel Tunkelang

**Claire McInerney, Michael E.D. Koenig**



## **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

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 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

*Compatibility Modeling* Xuemeng Song,Liqiang Nie,Yinglong Wang,2022-06-01 Nowadays fashion has become an essential aspect of people s daily life As each outfit usually comprises several complementary items such as a top bottom shoes and accessories a proper outfit largely relies on the harmonious matching of these items Nevertheless not everyone is good at outfit composition especially those who have a poor fashion aesthetic Fortunately in recent years the number of online fashion oriented communities like IQON and Chictopia as well as e commerce sites like Amazon and eBay has grown The tremendous amount of real world data regarding people s various fashion behaviors has opened a door to automatic clothing matching Despite its significant value compatibility modeling for clothing matching that assesses the compatibility score for a given set of equal or more than two fashion items e g a blouse and a skirt yields tough challenges a the absence of comprehensive benchmark b comprehensive compatibility modeling with the multi modal feature variables is largely untapped c how to utilize the domain knowledge to guide the machine learning d how to enhance the interpretability of the compatibility modeling and e how to model the user factor in the personalized compatibility modeling These challenges have been largely unexplored to date In this book we shed light on several state of the art theories on compatibility modeling In particular to facilitate the research we first build three large scale benchmark datasets from different online fashion websites including IQON and Amazon We then introduce a general data driven compatibility modeling scheme based on advanced neural networks To make use of the abundant fashion domain knowledge i e clothing matching rules we next present a novel knowledge guided compatibility modeling framework Thereafter to enhance the model interpretability we put forward a prototype wise interpretable compatibility modeling approach Following that noticing the subjective aesthetics of users we extend the general compatibility modeling to the personalized version Moreover we further study the real world problem of personalized capsule wardrobe creation aiming to generate a minimum collection of garments that is both compatible and suitable for the user Finally we conclude the book and present future research directions such as the generative compatibility modeling virtual try on with arbitrary poses and clothing generation

*On The Efficient Determination of Most Near Neighbors* Mark Manasse,2022-12-06 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 lecture 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

*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

**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

### **Knowledge Management Processes in Organizations**

Claire McInerney, Michael E.D. Koenig, 2011-02-02 Knowledge Management KM is an effort to increase useful knowledge in the organization It is a natural outgrowth of late twentieth century movements to make organizational management and operations more effective of higher quality and more responsive to constituents in a rapidly changing global environment This document traces the evolution of KM in organizations summarizing the most influential research and literature in the field It also presents an overview of selected common and current practices in knowledge management including the relationship between knowledge management and decision making with the intention of making a case for KM as a series of processes and not necessarily a manipulation of things The final section highlights the use of social networking and commonly adopted Web applications to increase the value of social capital and to connect practitioners with clients and colleagues Table of Contents Introduction Background Bibliographic Analysis Theorizing Knowledge in Organizations Conceptualizing Knowledge Emergence Knowledge Acts Knowledge Management in Practice Knowledge Management Issues Knowledge Management and Decision Making Social Network Analysis and KM Implications for the Future Conclusion

*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

*Trustworthy Communications and Complete Genealogies* Reagan W. Moore, 2022-06-01 Genealogies document relationships between persons involved in historical events Information about the events is parsed from communications from the past This book explores a way to organize information from multiple communications into a trustworthy representation of a genealogical history of the modern world The approach defines metrics for evaluating the consistency correctness closure connectivity completeness and coherence of a genealogy The metrics are evaluated using a 312 000 person research genealogy that explores the common ancestors of the royal families of Europe A major result is that completeness is defined by a genealogy symmetry property driven by two exponential processes the doubling of the number of potential ancestors each generation and the rapid growth of lineage coalescence when the number of potential ancestors exceeds the available population A genealogy expands from an initial root person to a large number of lineages which then coalesce into a small number of progenitors Using the research genealogy candidate progenitors for persons of Western European descent are identified A unifying ancestry is defined to which historically notable persons can be linked

**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

**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

**The Taxobook** Marjorie Hlava, 2014-10-01 This is the first volume in a series about creating and maintaining taxonomies and their practical applications especially in search functions In Book 1 The Taxobook History Theories and Concepts of Knowledge Organization the author introduces the very foundations of classification starting with the ancient Greek philosophers Plato and Aristotle as well as Theophrastus and the Roman Pliny the Elder They were first in a line of distinguished thinkers and philosophers to ponder the organization of the world around them and attempt to apply a structure or framework to that world The author continues by discussing the works and theories of several other philosophers from Medieval and Renaissance times including Saints Aquinas and Augustine William of Occam Andrea Cesalpino Carl Linnaeus and Ren Descartes In the 17th 18th and 19th centuries John Locke Immanuel Kant James Frederick Ferrier Charles Ammi Cutter and Melvil Dewey contributed greatly to the theories of classification systems and knowledge organization Cutter and Dewey especially created systems that are still in use today Chapter 8 covers the contributions of Shiyali Ramamrita Ranganathan who is considered by many to be the father of modern library science He created the

concept of faceted vocabularies which are widely used even if they are not well understood on many e commerce websites Following the discussions and historical review the author has included a glossary that covers all three books of this series so that it can be referenced as you work your way through the second and third volumes The author believes that it is important to understand the history of knowledge organization and the differing viewpoints of various philosophers even if that understanding is only that the differing viewpoints simply exist Knowing the differing viewpoints will help answer the fundamental questions Why do we want to build taxonomies How do we build them to serve multiple points of view Table of Contents List of Figures Preface Acknowledgments Origins of Knowledge Organization Theory Early Philosophy of Knowledge Saints and Traits Realism and Nominalism Arranging the glowers and the Birds and the Insects and Everything Else Early Naturalists and Taxonomies The Age of Enlightenment Impacts Knowledge Theory 18th Century Developments Knowledge Theory Coming to the Foreground High Resolution Classification Sharpens in the 19th and 20th Centuries Outlining the World and Its Parts Facets An Indian Mathematician and Children s Toys at Selfridge s Points of Knowledge Glossary End Notes Author Biography

**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

**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

### **Multiculturalism and Information and Communication Technology** Pnina Fichman, Madelyn Sanfilippo, 2022-05-31

Research on multiculturalism and information and communication technology ICT has been important to understanding recent history planning for future large scale initiatives and understanding unrealized expectations for social and technological change This interdisciplinary area of research has examined interactions between ICT and culture at the group and society levels However there is debate within the literature as to the nature of the relationship between culture and technology In this synthesis we suggest that the tensions result from the competing ideologies that drive researchers allowing us to conceptualize the relationship between culture and ICT under three primary models each with its own assumptions 1 Social informatics 2 Social determinism and 3 Technological determinism Social informatics views the relationship to be one of sociotechnical interaction in which culture and ICTs affect each other mutually and iteratively rather than linearly the vast majority of the literature approach the relationships between ICT and culture under the assumptions of social informatics From a socially deterministic perspective ICTs are viewed as the dependent variable in the equation whereas from a technologically deterministic perspective ICTs are an independent variable The issues of multiculturalism and ICTs attracted much scholarly attention and have been explored under a myriad of contexts with substantial literature on global development social and political issues business and public administration as well as education and scholarly collaboration We synthesize here research in the areas of global development social and political issues and business collaboration Finally we conclude by proposing under explored areas for future research directions

### **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

**The Practice of Crowdsourcing** Omar Alonso, 2022-06-01 Many data intensive applications that use machine learning or artificial intelligence techniques depend on humans providing the initial dataset enabling algorithms to process the rest or for other humans to evaluate the performance of such algorithms Not only can labeled data for training and evaluation be collected faster cheaper and easier than ever before but we now see the emergence of hybrid human machine software that combines computations performed by humans and machines in conjunction There are however real world practical issues with the adoption of human computation and crowdsourcing Building systems and data processing pipelines that require crowd computing remains difficult In this book we present practical considerations for designing and implementing tasks that require the use of humans and machines in combination with the goal of producing high quality labels

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## **Faceted Search Daniel Tunkelang Introduction**

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