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Information Concepts

From Books to Cyberspace Identities

Gary Marchionini

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

Gary Marchionini, Series Editor

Information Concepts From Books To Cyberspace Identities Gary Marchionini

Rachel S Tattersall



Information Concepts From Books To Cyberspace Identities Gary Marchionini:

Information Concepts Gary Marchionini, 2022-05-31 Information is essential to all human activity and information in electronic form both amplifies and augments human information interactions This lecture surveys some of the different classical meanings of information focuses on the ways that electronic technologies are affecting how we think about these senses of information and introduces an emerging sense of information that has implications for how we work play and interact with others The evolutions of computers and electronic networks and people's uses and adaptations of these tools manifesting a dynamic space called cyberspace Our traces of activity in cyberspace give rise to a new sense of information as instantaneous identity states that I term profection of self Profections of self influence how others act toward us Four classical senses of information are described as context for this new form of information The four senses selected for inclusion here are the following thought and memory communication process artifact and energy Human mental activity and state thought and memory have neurological cognitive and affective facets The act of informing communication process is considered from the perspective of human intentionality and technical developments that have dramatically amplified human communication capabilities Information artifacts comprise a common sense of information that gives rise to a variety of information industries Energy is the most general sense of information and is considered from the point of view of physical mental and social state change This sense includes information theory as a measurable reduction in uncertainty This lecture emphasizes how electronic representations have blurred media boundaries and added computational behaviors that yield new forms of information interaction which in turn are stored aggregated and mined to create profiles that represent our cyber identities Table of Contents The Many Meanings of Information Information as Thought and Memory Information as Communication Process Information as Artifact Information as Energy Information as Identity in Cyberspace The Fifth Voice Conclusion and Directions

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 *The Future of Personal Information Management, Part I* William Jones, 2022-06-01 We are well into a second age of digital information Our information is moving from the desktop to the laptop to the palmtop and up into an amorphous cloud on the Web How can one manage both the challenges and opportunities of this new world of digital information What does the future hold This book provides an important update on the rapidly expanding field of personal information management PIM Part I Always and Forever introduces the essentials of PIM Information is personal for many reasons It s the information on our hard drives we couldn t bear to lose It s the information about us that we don t want to share It s the distracting information demanding our attention even as we try to do something else It s the information we don t know about but need to Through PIM we control personal information We integrate information into our lives in useful ways We make it ours With basics established Part I proceeds to explore a critical interplay between personal information always at hand through mobile devices and forever on the Web How does information stay ours in such a world Part II Building Places of Our Own for Digital Information will be available in the Summer of 2012 and will consist of the following chapters Chapter 5 Technologies to eliminate PIM We have seen astonishing advances in the technologies of information management in particular to aid in the storing structuring and searching of information These technologies will certainly change the way we do PIM will they eliminate the need for PIM altogether Chapter 6 GIM and the social fabric of PIM We don t and shouldn t manage our information in isolation Group information management GIM especially the kind practiced more informally in households and smaller project teams goes hand in glove with good PIM Chapter 7 PIM by design Methodologies principles questions and considerations as we seek to understand PIM better and to build PIM into our tools techniques and training Chapter 8 To each of us our own Just as we must each be a student of our own practice of PIM we must also be a designer of this practice This concluding chapter looks at tips traps and tradeoffs as we work to build a practice of PIM and places of our own for personal information Table of Contents A New Age of Information The Basics of PIM Our Information Always at Hand Our Information Forever on the Web

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

Exploring Context in Information Behavior Naresh Kumar Agarwal, 2022-05-31 The field of human information behavior runs the gamut of processes from the realization of a need or gap in understanding to the search for information from one or more sources to fill that gap to the use of that information to complete a task at hand or to satisfy a curiosity as well as other behaviors such as avoiding information or finding information serendipitously Designers of mechanisms tools and computer based systems to facilitate this seeking and search process often lack a full knowledge of the context surrounding the search This context may vary depending on the job or role of the person individual characteristics such as personality domain knowledge age gender perception of self etc the task at hand the source and the channel and their degree of accessibility and usability and the relationship that the seeker shares with the source Yet researchers have yet to agree on what context really means While there have been various research studies incorporating context and biennial conferences on context in information behavior there lacks a clear definition of what context is what its boundaries are and what elements and variables comprise context In this book we look at the many definitions of and the theoretical and empirical studies on context and I attempt to map the conceptual space of context in information behavior I propose theoretical frameworks to map the boundaries elements and variables of context I then discuss how to incorporate these frameworks and variables in the design of research studies on context We then arrive at a unified definition of context This book should provide designers of search systems a better understanding of context as they seek to meet the needs and demands of information seekers It will be an important resource for researchers in Library and Information Science especially doctoral students looking for one resource that covers an exhaustive range of the most current literature related to context the best selection of classics and a synthesis of these into theoretical frameworks and a unified definition The book should help to move forward research in the field by clarifying the elements variables and views that are pertinent In particular the list of elements to be considered and the variables associated with each element will be extremely useful to researchers wanting to include the influences of context in their studies

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 Video Structure Meaning Brian C O'Connor, Richard L. Anderson, 2022-05-31 For over a century motion pictures have entertained us occasionally educated us and even served a few specialized fields of study Now however with the precipitous drop in prices and increase in image quality motion pictures are as widespread as paperback books and postcards once were Yet theories and practices of analysis for particular genres and analytical stances definitions concepts and tools that span platforms have been wanting Therefore we developed a suite of tools to enable close structural analysis of the time varying signal set of a movie We take an information theoretic approach message is a signal set generated coded under various antecedents sent over some channel decoded under some other set of antecedents Cultural technical and personal antecedents might favor certain message making systems over others The same holds true at the recipient end yet the signal set remains the signal set In order to discover how movies work their structure and meaning we honed ways to provide pixel level analysis forms of clustering and precise descriptions of what parts of a signal influence viewer behavior We assert that analysis of the signal set across the evolution of film from Edison to Hollywood to Brakhage to cats on social media yields a common ontology with instantiations responses to changes in coding and decoding antecedents **Social Media and Library Services** Lorri Mon, 2022-05-31 The rise of social media technologies has created new ways to seek and share information for millions of users worldwide but also has presented new challenges for libraries in meeting users where they are within social spaces From social networking sites such as Facebook and Google and microblogging platforms such as Twitter and Tumblr to the image and video sites of YouTube Flickr Instagram and to geotagging sites such as Foursquare libraries have responded by establishing footholds within a variety of social media platforms and seeking new ways of engaging with online users in social spaces Libraries are also responding to new social review sites such as Yelp and Tripadvisor awareness sites including StumbleUpon Pinterest Goodreads and Reddit and social question and answer Q A sites such as Yahoo Answers sites which engage social media users in functions similar to traditional library content curation readers advisory information and referral and reference services Establishing a social media presence extends the library s

physical manifestation into virtual space and increases the library's visibility reach and impact. However, beyond simply establishing a social presence for the library, a greater challenge is building effective and engaging social media sites that successfully adapt a library's visibility voice and presence to the unique contexts, audiences, and cultures within diverse social media sites. This lecture examines the research and theory on social media and libraries, providing an overview of what is known and what is not yet known about libraries and social media. Chapter 1 focuses on the social media environments within which libraries are establishing a presence, including how social media sites differ from each other yet work together within a social ecosphere. Chapter 2 examines how libraries are engaging with users across a variety of social media platforms and the extent to which libraries are involved in using these different social media platforms as well as the activities of libraries in presenting a social self, sharing information, and interacting with users via social media. Chapter 3 explores metrics and measures for assessing the impact of the library's activity in social media sites. The book concludes with Chapter 4 on evolving directions for libraries and social media, including potential implications of new and emerging technologies for libraries in social spaces.

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Social Informatics Evolving
Pnina Fichman, Madelyn R. Sanfilippo, Howard Rosenbaum, 2022-05-31

The study of people, information, and communication technologies and the contexts in which these technologies are designed, implemented, and used has long interested scholars in a wide range of disciplines, including the social study of computing science and technology, studies of the sociology of technology, and management information systems. As ICT use has spread from organizations into the larger world, these devices have become routine information appliances in our social lives. Researchers have begun to ask deeper and more profound questions about how our lives have become bound up with technologies. A common theme running through this research is that the relationships among people, technology, and context are dynamic, complex, and critically important to understand. This book explores social informatics (SI), one important and dynamic approach that researchers have used to study these complex relationships. SI is the interdisciplinary study of the design, uses, and consequences of information technology that takes into account their interaction with institutional and cultural contexts. Kling (1998, p. 52, 1999) provides flexible frameworks to explore complex and dynamic socio-technical interactions. As a domain of study related largely by common vocabulary and conclusions, SI critically examines common conceptions of and expectations for technology by providing contextual evidence. This book describes the evolution of SI research and identifies challenges and opportunities for future research. In what might be seen as an example of socio-technical natural selection, SI emerged in six different locations during the 1980s and 1990s: Norway, Slovenia, Japan, the former Soviet Union, the UK, and lastly the US. As SI evolved, the version popularized in the US became globally dominant. The evolution of SI is presented in five stages: emergence, foundational expansion, coherence, and transformation. Thus, we divide SI research into five major periods.

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

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

Word Association Thematic Analysis Michael Thelwall, 2022-05-31 Many research projects involve analyzing sets of texts from the social web or elsewhere to get insights into issues opinions interests news discussions or communication styles For example many studies have investigated reactions to Covid 19 social distancing restrictions conspiracy theories and anti vaccine sentiment on social media This book describes word association thematic analysis a mixed methods strategy to identify themes within a collection of social web or other texts It identifies these themes in the differences between subsets of the texts including female vs male vs nonbinary older vs newer country A vs country B positive vs negative sentiment high scoring vs low scoring or subtopic A vs subtopic B It can also be used to identify the differences between a topic focused collection of texts and a reference collection The method starts by automatically finding

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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

Theoretical Foundations for Digital Libraries Edward Fox, Marcos André Gonçalves, Rao Shen, 2022-06-01 In 1991 a group of researchers chose the term digital libraries to describe an emerging field of research development and practice Since then Virginia Tech has had funded research in this area largely through its Digital Library Research Laboratory This book is the first in a four book series that reports our key findings and current research investigations Underlying this book series are six completed dissertations Gonçalves Kozievitch Leidig Murthy Shen Torres eight dissertations underway and many masters theses These reflect our experience with a long string of prototype or production systems developed in the lab such as CITIDEL CODER CTRnet Ensemble ETANA ETD db MARIAN and Open Digital Libraries There are hundreds of related publications presentations tutorials and reports We have built upon that work so this book and the others in the series will address digital library related needs in many computer science information science and library science e g LIS courses as well as the requirements of researchers developers and practitioners Much of the early work in the digital library field struck a balance between addressing real world needs integrating methods from related areas and advancing an ever expanding research agenda Our work has fit in with these trends but simultaneously has been driven by a desire to provide a firm conceptual and formal basis for the field Our aim has been to move from engineering to science We claim that our 5S Societies Scenarios Spaces

Structures Streams framework discussed in publications dating back to at least 1998 provides a suitable basis This book introduces 5S and the key theoretical and formal aspects of the 5S framework While the 5S framework may be used to describe many types of information systems and is likely to have even broader utility and appeal we focus here on digital libraries Our view of digital libraries is broad so further generalization should be straightforward We have connected with related fields including hypertext hypermedia information storage and retrieval knowledge management machine learning multimedia personal information management and Web 2 0 Applications have included managing not only publications but also archaeological information educational resources fish images scientific datasets and scientific experiments simulations

Table of Contents Introduction Exploration Mathematical Preliminaries Minimal Digital Library Archaeological Digital Libraries 5S Results Lemmas Proofs and 5SSuite Glossary Bibliography Authors Biographies Index **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 Understanding and Evaluating Search Experience Maria Stone,2022-05-31 This book is intended for anyone interested in learning more about how search works and how it is evaluated We all use search it s a familiar utility Yet few of us stop and think about how search works what makes search results good and who if anyone decides what good looks like Search has a long and glorious history yet it continues to evolve and with it the measurement and our understanding of the kinds of experiences search can deliver continues to evolve as well We will discuss the basics of how search engines work how humans use search engines and how measurement works Equipped with these general topics we will then dive into the established ways of measuring

search user experience and their pros and cons We will talk about collecting labels from human judges analyzing usage logs surveying end users and even touch upon automated evaluation methods After introducing different ways of collecting metrics we will cover experimentation as it applies to search evaluation The book will cover evaluating different aspects of search from search user interface UI to results presentation to the quality of search algorithms In covering these topics we will touch upon many issues in evaluation that became sources of controversy from user privacy to ethical considerations to transparency to potential for bias We will conclude by contrasting measuring with understanding and pondering the future of search evaluation

Scalability Challenges in Web Search Engines B. Barla Cambazoglu, Ricardo Baeza-Yates, 2022-06-01 In this book we aim to provide a fairly comprehensive overview of the scalability and efficiency challenges in large scale web search engines More specifically we cover the issues involved in the design of three separate systems that are commonly available in every web scale search engine web crawling indexing and query processing systems We present the performance challenges encountered in these systems and review a wide range of design alternatives employed as solution to these challenges specifically focusing on algorithmic and architectural optimizations We discuss the available optimizations at different computational granularities ranging from a single computer node to a collection of data centers We provide some hints to both the practitioners and theoreticians involved in the field about the way large scale web search engines operate and the adopted design choices Moreover we survey the efficiency literature providing pointers to a large number of relatively important research papers Finally we discuss some open research problems in the context of search engine efficiency

On the Efficient Determination of Most Near Neighbors Mark S. Manasse, 2022-05-31 The time worn aphorism close only counts in horseshoes and hand grenades is clearly inadequate Close also counts in golf shuffleboard archery darts curling and other games of accuracy in which hitting the precise center of the target isn't to be expected every time or in which we can expect to be driven from the target by skilled opponents This book is not devoted to sports discussions but to efficient algorithms for determining pairs of closely related web pages and a few other situations in which we have found that inexact matching is good enough where proximity suffices We will not however attempt to be comprehensive in the investigation of probabilistic algorithms approximation algorithms or even techniques for organizing the discovery of nearest neighbors We are more concerned with finding nearby neighbors if they are not particularly close by we are not particularly interested In thinking of when approximation is sufficient remember the oft told joke about two campers sitting around after dinner They hear noises coming towards them One of them reaches for a pair of running shoes and starts to don them The second then notes that even with running shoes they cannot hope to outrun a bear to which the first notes that most likely the bear will be satiated after catching the slower of them We seek problems in which we don't need to be faster than the bear just faster than the others fleeing the bear

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

Analysis and Visualization of Citation Networks

Dangzhi Zhao, Andreas Strotmann, 2022-06-01 Citation analysis the exploration of reference patterns in the scholarly and scientific literature has long been applied in a number of social sciences to study research impact knowledge flows and knowledge networks It has important information science applications as well particularly in knowledge representation and in information retrieval Recent years have seen a burgeoning interest in citation analysis to help address research management or information service issues such as university rankings research evaluation or knowledge domain visualization This renewed and growing interest stems from significant improvements in the availability and accessibility of digital bibliographic data both citation and full text and of relevant computer technologies The former provides large amounts of data and the latter the necessary tools for researchers to conduct new types of large scale citation analysis even without special access to special data collections Exciting new developments are emerging this way in many aspects of citation analysis This book critically examines both theory and practical techniques of citation network analysis and visualization one of the two main types of citation analysis the other being evaluative citation analysis To set the context for its main theme the book begins with a discussion of the foundations of citation analysis in general including an overview of what can and what cannot be done with citation analysis Chapter 1 An in depth examination of the generally accepted steps and procedures for citation network analysis follows including the concepts and techniques that are associated with each step Chapter 2 Individual issues that are particularly important in citation network analysis are then scrutinized namely field delineation and data sources for citation analysis Chapter 3 disambiguation of names and references Chapter 4 and visualization of citation networks Chapter 5 Sufficient technical detail is provided in each chapter so the book can serve as a practical how to guide to conducting citation network analysis and visualization studies While the discussion of most of the topics in this book

applies to all types of citation analysis the structure of the text and the details of procedures examples and tools covered here are geared to citation network analysis rather than evaluative citation analysis This conscious choice was based on the authors observation that compared to evaluative citation analysis citation network analysis has not been covered nearly as well by dedicated books despite the fact that it has not been subject to nearly as much severe criticism and has been substantially enriched in recent years with new theory and techniques from research areas such as network science social network analysis or information visualization Table of Contents Acknowledgment Dedications Foundations of Citation Analysis Conducting Citation Network Analysis Steps Concepts Techniques and Tools Field Delineation and Data Sources for Citation Analysis Disambiguation in Citation Network Analysis Visualization of Citation Networks Appendix 3 3 Appendix 5 4 2 Bibliography Author Biographies

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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