

Data-Centric Systems and Applications

Bing Liu

Web Data Mining

Exploring Hyperlinks, Contents,
and Usage Data

Second Edition

 Springer

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E Durkheim



Web Data Mining Bing Liu:

Web Data Mining Bing Liu, 2011-06-25 Liu has written a comprehensive text on Web mining which consists of two parts. The first part covers the data mining and machine learning foundations where all the essential concepts and algorithms of data mining and machine learning are presented. The second part covers the key topics of Web mining where Web crawling, search, social network analysis, structured data extraction, information integration, opinion mining, and sentiment analysis. Web usage mining, query log mining, computational advertising, and recommender systems are all treated both in breadth and in depth. His book thus brings all the related concepts and algorithms together to form an authoritative and coherent text. The book offers a rich blend of theory and practice. It is suitable for students, researchers, and practitioners interested in Web mining and data mining both as a learning text and as a reference book. Professors can readily use it for classes on data mining, Web mining, and text mining. Additional teaching materials such as lecture slides, datasets, and implemented algorithms are available online. [Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data](#) Bing Liu, 2010-09

[Web Data Mining with Python](#) Dr. Ranjana Rajnish, Dr. Meenakshi Srivastava, 2023-01-31 Explore different web mining techniques to discover patterns, structures, and information from the web. **KEY FEATURES** A complete overview of the basic and advanced concepts of Web mining. Work with easy-to-use open source Python libraries for Web mining. Get familiar with the various beneficial areas and applications of Web mining. **DESCRIPTION** Data Science is the fastest growing job across the globe and is predicted to create 11.5 million jobs by 2026, so job seekers with this skill set have a lot of opportunities. One of the most sought areas in the field of Data Science is mining information from the web. If you are an aspiring Data Scientist looking to learn different Web mining techniques, then this book is for you. This book starts by covering the key concepts of Web mining and its taxonomy. It then explores the basics of Web scraping, its uses, and components, followed by topics like legal aspects related to scraping, data extraction, and pre-processing, scraping dynamic websites, and CAPTCHA. The book also introduces you to the concept of Opinion mining and Web structure mining. Furthermore, it covers Web graph mining, Web information extraction, Web search, and hyperlinks. Hyperlink-Induced Topic Search (HITS) search and partitioning algorithms that are used for Web mining. Towards the end, the book will teach you different mining techniques to discover interesting usage patterns from Web data. By the end of the book, you will master the art of data extraction using Python. **WHAT YOU WILL LEARN** Learn how to scrape data from any website with Python. Get familiar with the concepts of Opinion Mining and Sentiment Analysis. Use Web structure mining to discover structure information from the web. Learn how to collect and analyze social media data using Python. Use Web usage mining for predicting users' browsing behaviors. **WHO THIS BOOK IS FOR** The book is for anyone who wants to learn Web mining. Aspiring Data Scientists, Data Engineers, and Data Analysts who want to master Web mining will find this book very helpful. **TABLE OF CONTENTS** 1 Web Mining: An Introduction 2 Web Mining Taxonomy 3 Prominent Applications with Web Mining 4 Python Fundamentals 5 Web Scraping 6 Web Opinion Mining

7 Web Structure Mining 8 Social Network Analysis in Python 9 Web Usage Mining **Sentiment Analysis and Opinion Mining** Bing Liu, 2012-05-01 Sentiment analysis and opinion mining is the field of study that analyzes people's opinions, sentiments, evaluations, attitudes, and emotions from written language. It is one of the most active research areas in natural language processing and is also widely studied in data mining, Web mining, and text mining. In fact, this research has spread outside of computer science to the management sciences and social sciences due to its importance to business and society as a whole. The growing importance of sentiment analysis coincides with the growth of social media such as reviews, forum discussions, blogs, micro blogs, Twitter, and social networks. For the first time in human history, we now have a huge volume of opinionated data recorded in digital form for analysis. Sentiment analysis systems are being applied in almost every business and social domain because opinions are central to almost all human activities and are key influencers of our behaviors. Our beliefs and perceptions of reality and the choices we make are largely conditioned on how others see and evaluate the world. For this reason, when we need to make a decision, we often seek out the opinions of others. This is true not only for individuals but also for organizations. This book is a comprehensive introductory and survey text. It covers all important topics and the latest developments in the field with over 400 references. It is suitable for students, researchers, and practitioners who are interested in social media analysis in general and sentiment analysis in particular. Lecturers can readily use it in class for courses on natural language processing, social media analysis, text mining, and data mining. Lecture slides are also available online. Table of Contents: Preface, Sentiment Analysis: A Fascinating Problem, The Problem of Sentiment Analysis, Document Sentiment Classification, Sentence Subjectivity and Sentiment Classification, Aspect Based Sentiment Analysis, Sentiment Lexicon Generation, Opinion Summarization, Analysis of Comparative Opinions, Opinion Search and Retrieval, Opinion Spam Detection, Quality of Reviews, Concluding Remarks, Bibliography, Author Biography. Product Research N. R. Srinivasa Raghavan, John A. Cafeo, 2010-03-11 7 1 1 Background Uncertainty can be considered as the lack of adequate information to make a decision. It is important to quantify uncertainties in mathematical models used for design and optimization of nondeterministic engineering systems. In general, certainty can be broadly classified into three types. Bae et al 2004, Ha Rok 2004, Klir and Wierman 1998, Oberkampf and Helton 2002, Sentz 2002. The first one is aleatory uncertainty, also referred to as stochastic uncertainty or inherent certainty; it results from the fact that a system can behave in random ways. For example, the failure of an engine can be modeled as an aleatory uncertainty because the failure can occur at a random time. One cannot predict exactly when the engine will fail even if a large quantity of failure data is gathered. Available. The second one is epistemic uncertainty, also known as subjective uncertainty or reducible certainty; it is the uncertainty of the outcome of some random event due to lack of knowledge or information in any phase or activity of the modeling process. By gaining information about the system or environmental factors, one can reduce the epistemic uncertainty. For example, a lack of experimental data to characterize new materials and processes leads to epistemic uncertainty. *Web Data Mining* Bing

Liu,2007 This is the first book to provide such a comprehensive text on Web data mining The book brings together all the essential concepts and algorithms from related areas such as data mining machine learning and text processing to form an authoritative and coherent text

Text Data Mining Chengqing Zong,Rui Xia,Jiajun Zhang,2021-05-22 This book discusses various aspects of text data mining Unlike other books that focus on machine learning or databases it approaches text data mining from a natural language processing NLP perspective The book offers a detailed introduction to the fundamental theories and methods of text data mining ranging from pre processing for both Chinese and English texts text representation and feature selection to text classification and text clustering It also presents the predominant applications of text data mining for example topic modeling sentiment analysis and opinion mining topic detection and tracking information extraction and automatic text summarization Bringing all the related concepts and algorithms together it offers a comprehensive authoritative and coherent overview Written by three leading experts it is valuable both as a textbook and as a reference resource for students researchers and practitioners interested in text data mining It can also be used for classes on text data mining or NLP

WEBKDD 2002 - Mining Web Data for Discovering Usage Patterns and Profiles Osmar R.

Zaiane,Jaideep Srivastava,Myra Spiliopoulou,Brij Masand,2003-10-02 1 WorkshopTheme Data mining as a discipline aims to relate the analysis of large amounts of user data to shed light on key business questions Web usage mining in particular a relatively young discipline investigates methodologies and techniques that dress the unique challenges of discovering insights from Web usage data aiming to evaluate Web usability understand the interests and expectations of users and assess the effectiveness of content delivery The maturing and expanding Web presents a key driving force in the rapid growth of electronic commerce and a new channel for content providers Customized offers and content made possible by discovered knowledge about the customer are fundamental for the establishment of viable e commerce solutions and sustained and effective content delivery in noncommercial domains Rich Web logs provide companies with data about their online visitors and prospective customers allowing microsegmentation and personalized interactions While Web mining as a domain is several years old the challenges that characterize data analysis in this area continue to be formidable Though processing data routinely takes up a major part of the effort in data mining Web usage data presents further challenges based on the difficulties of assigning data streams to unique users and tracking them over time New innovations are required to reliably reconstruct sessions to ascertain similarity and differences between sessions and to be able to segment online users into relevant groups

Information Retrieval and Management: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources,2018-01-05 With the increased use of technology in modern society high volumes of multimedia information exists It is important for businesses organizations and individuals to understand how to optimize this data and new methods are emerging for more efficient information management and retrieval *Information Retrieval and Management Concepts Methodologies Tools and Applications* is an innovative reference source for the latest academic material in the field

of information and communication technologies and explores how complex information systems interact with and affect one another Highlighting a range of topics such as knowledge discovery semantic web and information resources management this multi volume book is ideally designed for researchers developers managers strategic planners and advanced level students

Social Media Data Mining Vidhur Gupta,2025-01-03 Social Media Data Mining Insights and Strategies delves into the techniques and challenges of mining social media platforms offering practical examples and exercises This comprehensive book comprising 10 chapters begins with an introduction to social media its platforms and the upcoming challenges in this field The first part covers data mining concepts graph and network evaluation algorithms and tools as well as communication strategies for boosting engagement on social media The second part explores mining data from platforms like Facebook Twitter LinkedIn and emails providing in depth analysis and case studies to illustrate real world applications We aim to enhance your understanding of social media data mining offering valuable insights for tackling big data challenges The book combines theoretical knowledge with practical exercises ensuring a successful learning journey

Data Mining for Business Applications Longbing Cao,Philip S. Yu,Chengqi Zhang,Huaifeng Zhang,2008-10-03 Data Mining for Business Applications presents the state of the art research and development outcomes on methodologies techniques approaches and successful applications in the area The contributions mark a paradigm shift from data centered pattern mining to domain driven actionable knowledge discovery for next generation KDD research and applications The contents identify how KDD techniques can better contribute to critical domain problems in theory and practice and strengthen business intelligence in complex enterprise applications The volume also explores challenges and directions for future research and development in the dialogue between academia and business

Social Big Data Mining Hiroshi Ishikawa,2015-03-25 This book focuses on the basic concepts and the related technologies of data mining for social media Topics include big data and social data data mining for making a hypothesis multivariate analysis for verifying the hypothesis web mining and media mining natural language processing social big data applications and scalability It explains

Information Retrieval , A Practical Guide to Sentiment Analysis Erik Cambria,Dipankar Das,Sivaji Bandyopadhyay,Antonio Feraco,2017-04-07 Sentiment analysis research has been started long back and recently it is one of the demanding research topics Research activities on Sentiment Analysis in natural language texts and other media are gaining ground with full swing But till date no concise set of factors has been yet defined that really affects how writers sentiment i e broadly human sentiment is expressed perceived recognized processed and interpreted in natural languages The existing reported solutions or the available systems are still far from perfect or fail to meet the satisfaction level of the end users The reasons may be that there are dozens of conceptual rules that govern sentiment and even there are possibly unlimited clues that can convey these concepts from realization to practical implementation Therefore the main aim of this book is to provide a feasible research platform to our ambitious researchers towards developing the practical solutions that will be indeed beneficial for our society business and future

researches as well **Mining Massive Data Sets for Security** Françoise Fogelman-Soulié, Jakub Piskorski, Ralf Steinberger, 2008-10-15 The real power for security applications will come from the synergy of academic and commercial research focusing on the specific issue of security Special constraints apply to this domain which are not always taken into consideration by academic research but are critical for successful security applications large volumes techniques must be able to handle huge amounts of data and perform on line computation scalability algorithms must have processing times that scale well with ever growing volumes automation the analysis process must be automated so that information extraction can run on its own ease of use everyday citizens should be able to extract and assess the necessary information and robustness systems must be able to cope with data of poor quality missing or erroneous data The NATO Advanced Study Institute ASI on Mining Massive Data Sets for Security held in Italy September 2007 brought together around ninety participants to discuss these issues This publication includes the most important contributions but can of course not entirely reflect the lively interactions which allowed the participants to exchange their views and share their experience The bridge between academic methods and industrial constraints is systematically discussed throughout This volume will thus serve as a reference book for anyone interested in understanding the techniques for handling very large data sets and how to apply them in conjunction for solving security issues **Ranking for Web Data Search Using On-The-Fly Data Integration** Herzig, Daniel Markus, 2014-01-21 Ranking the algorithmic decision on how relevant an information artifact is for a given information need and the sorting of artifacts by their concluded relevancy is an integral part of every search engine In this book we investigate how structured Web data can be leveraged for ranking with the goal to improve the effectiveness of search We propose new solutions for ranking using on the fly data integration and experimentally analyze and evaluate them against the latest baselines **PHealth 2012** B. Blobel, P. Pharow, F. Sousa, 2012-06-12 Microsystems smart textiles telemedicine smart implants and sensor controlled medical devices have become important enablers for monitoring and treatment in both inpatient and outpatient care Indeed micro and nano technologies have tremendous potential for increasing access to care whilst managing healthcare costs They are set to be at the heart of evolutionary and revolutionary changes in healthcare and are crucial not only for the future of medicine but also for the improvement of health care and welfare processes today and tomorrow This book presents the proceedings of the 2012 pHealth conference held in Porto Portugal in June 2012 The pHealth conference has emerged as the leading international meeting on wearable micro and nano technologies for personalized medicine attracting scientists from various disciplines clinicians as well as policy makers from the healthcare industry hospital administration and allied professionals The book includes keynotes invited speeches and selected submitted contributions The areas covered include the pHealth approach new approaches to diagnosis and therapy monitoring special diseases system architecture design and implementation wearable sensor systems smartphone applications and ambient assisted living Over the years pHealth has given visibility to the tremendous potential of micro and nano technologies not

only for the future of medicine but also for the improvement of healthcare processes today This book will be of interest to all those involved with the provision of health and welfare services and also to companies engaged in the development of micro and nano technologies

Information Retrieval Technology Sung Hyon Myaeng, Ming Zhou, Kam-Fai Wong, Hong-Jiang Zhang, 2007-05-25 The Asia Information Retrieval Symposium AIRS was established by the Asian information retrieval community after the successful series of Information retrieval with Asian Languages IRAL workshops held in six different locations in Asia starting from 1996 While the IRAL workshops had their focus on information retrieval problems involving Asian languages AIRS covers a wider scope of applications systems technologies and theory aspects of information retrieval in text audio image video and multimedia data This extension of the scope reflects and fosters increasing research activities in information retrieval in this region and the growing need for collaborations across subdisciplines We are very pleased to report that we saw a sharp increase in the number of submissions and their quality compared to the IRAL workshops We received 106 papers from nine countries in Asia and North America from which 28 papers 26% were presented in oral sessions and 38 papers in poster sessions 36% It was a great challenge for the Program Committee to select the best among the excellent papers The low acceptance rates witness the success of this year's conference After a long discussion between the AIRS 2004 Steering Committee and Springer the publisher agreed to publish our proceedings in the Lecture Notes in Computer Science LNCS series which is SCI indexed We feel that this strongly attests to the excellent quality of the papers

Computer Science ,

Connecting With Consumers Allan J. Kimmel, 2010-06-03 These are exciting times for business managers and marketing professionals yet the challenges imposed by ongoing social and technological developments are daunting In an age in which marketers can reach their audiences with greater facility than ever before firms have never been less in control of their customer targets This increasing connectedness of consumers provides a range of unique and promising opportunities for product and brand managers Connecting With Consumers describes the various strategies and techniques that can be utilized to harness consumer influence The book traces evolving developments in the consumer marketplace considers their impact on the potential reshaping of the marketing profession and describes the emerging set of tools that can enable marketers to respond to new marketplace realities It provides clear up to date coverage of a number of topics currently on the minds of many Web 2.0 word of mouth buzz the social web social media metrics customer engagement viral and guerrilla marketing The book critically assesses emerging marketing strategies and tools within the context of research and theory and provides numerous applied examples to illustrate marketing successes and common pitfalls to avoid It argues throughout for a more collaborative relationship between companies and consumers towards their mutual benefit Although the balance of power has shifted to the consumer for each of the various aspects of the marketing process collaboration is what the future of marketing likely will be all about Marketers can avoid irrelevance in the face of change but this will require a clear commitment to connecting with consumers rather than searching for ways to regain control over them The book challenges

marketers to make a choice embrace the ongoing changes as opportunities for reshaping relationships with consumers or cling to the past at the risk of becoming irrelevant This is the book for those who choose the first alternative

Decoding **Web Data Mining Bing Liu**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Web Data Mining Bing Liu**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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