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The Healthcare Answer Book

Springer Science & Business Media

The quick growth of computer technology and development of software caused it to be in a constant state of change and advancement. This advancement in software

development meant that there would be many types of software developed in order to excel in usability and efficiency. Among these different types of software was open source software, one that grants permission for users to use, study, change, and distribute it freely. Due to its availability, open source software has quickly become a valuable asset to the world of computer technology and across various disciplines including education, business, and library science. The Research Anthology on Usage and Development of Open Source Software presents comprehensive research on the design and development of open source software as well as the ways in which it is used. The text discusses in depth the way in which this computer software has been made into a collaborative effort for the advancement of software technology. Discussing topics such as ISO standards, big data, fault prediction, open collaboration, and software development, this anthology is essential for computer engineers, software developers, IT specialists and consultants, instructors, librarians, managers, executives, professionals, academicians, researchers, and students.

Business Forecasting IOS Press

This book highlights recent research on bio-inspired computing and its various innovative applications in information and communication technologies. It

presents 51 high-quality papers from the 11th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2020) and 10th World Congress on Information and Communication Technologies (WICT 2020), which was held online during December 16–18, 2019. As a premier conference, IBICA–WICT brings together researchers, engineers and practitioners whose work involves bio-inspired computing, computational intelligence and their applications in information security, real-world contexts, etc. Including contributions by authors from 25 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science and Engineering.

Fundamentals of Clinical Data Science **SUNY Press**

Historically, there has been great deliberation about the limits of human knowledge. Isaac Newton, recognizing his own shortcomings, once described himself as " a boy standing on the seashore . . . whilst the great ocean of truth lay all underscored before me. " In Ignorance, Nicholas Rescher presents a broad-ranging study that examines

the manifestations, consequences, and occasional benefits of ignorance in areas of philosophy, scientific endeavor, and ordinary life. Citing philosophers, theologians, and scientists from Socrates to Steven Hawking, Rescher seeks to uncover the factors that hinder our cognition. Rescher categorizes ignorance as ontologically grounded (rooted in acts of nature-erasure, chaos, and chance-that prevent fact determination), or epistemically grounded (the inadequacy of our information-securing resources). He then defines the basis of ignorance: inaccessible data; statistical fogs; secreted information; past data that have left no trace; future discoveries; future contingencies; vagrant predicates; and superior intelligences. Such impediments set limits to inquiry and mean that while we can always extend our existing knowledge-variability here is infinite-there are things that we will never know. Cognitive finitude also hinders our ability to assimilate more than a certain number of facts. We may acquire additional information, but lack the facility to interpret it. More information does not always increase knowledge; it may point us further down the path toward an erroneous conclusion. In light of these deficiencies, Rescher looks to the role of computers in solving problems and expanding our knowledge base, but finds limits to their reasoning capacity. As Rescher's comprehensive study concludes, ignorance itself is a fertile topic for knowledge, and recognizing the boundaries of our comprehension is where wisdom begins.

Machine Learning and Knowledge Discovery in Databases Springer

Applied Predictive Modeling

covers the overall predictive modeling process, beginning with the crucial steps of data preprocessing, data splitting and foundations of model tuning. The text then provides intuitive explanations of numerous common and modern regression and classification techniques, always with an emphasis on illustrating and solving real data problems. The text illustrates all parts of the modeling process through many hands-on, real-life examples, and every chapter contains extensive R code for each step of the process. This multi-purpose text can be used as an introduction to predictive models and the overall modeling process, a practitioner's reference handbook, or as a text for advanced undergraduate or graduate level predictive modeling courses. To that end, each chapter contains problem sets to help solidify the covered concepts and uses data available in the book's R package. This text is intended for a broad audience as both an introduction to predictive models as well as a guide to applying them. Non-mathematical readers will appreciate the intuitive explanations of the techniques while an emphasis on problem-solving with real data across a wide variety of applications will aid practitioners who wish to extend their expertise. Readers should have knowledge of basic statistical ideas, such as correlation and linear regression analysis. While the text is biased against complex equations, a mathematical background is needed for advanced topics.

Fundamentals of Predictive Text Mining Springer Nature

The Healthcare Answer Book provides detailed solutions to 323 of the top challenges faced by healthcare executives

today.You''ll get recommended software and tools, staff ratios, program structures, ROI measurement and results for various programs, protecting patient privacy and security in a number of scenarios -- answered by some of the nation''s leading healthcare experts to help you plan, evaluate, manage and improve your organization?s healthcare initiatives.Compiled from a series of live audio conferences in which these industry experts answered questions from the field, this report delves into a variety of topics, including cost containment, disease management, e-Health initiatives, HIPAA security and privacy, healthcare industry trends and workplace wellness.Indexed by topic and by keyword, this guide will become your indispensable research assistant for questions that challenge you and your staff each day. You''ll get the answers you need to such questions as:Cost Containment * What type of software tools are you using for predictive modeling? * Which predictive modeling tools are best for the ROI calculation? * What level of payment or financial risk is needed to change provider behavior? * What is the range of pay-for-performance paybacks and how often are they calculated? * What is the best ROI methodology on P4P programs that you have evaluated and how does it work? * Are tiered networks feasible in smaller markets?Industry Trends * Do you have a recommended reading level for translated written materials for preventative services in either low socio-economic status populations or for children? Also, is there a web site or written reference indicating how to do that? * In this era

of consumer-driven healthcare, what quality-related information helps consumers make informed choices about health plans or providers?eHealth Initiatives * What screening requirements do you use for telemedicine patients? Do you evaluate factors outside disease severity? * Can you describe the kind of investment needed to implement e-health tools, how quickly you can achieve an ROI, and what kind of ROIs you can expect? * What criteria are payors and physicians using to determine whether or not an e-visit is billable? Are there clear-cut guidelines? * What lessons have you learned through your personal health record rollout process? What advice can you share with other organizations as they implement their own PHRs?HIPAA Security and Privacy * What are the biggest challenges to offering single sign-on? * How do you secure e-health physician-patient communication?Disease Management * How do strategies for asthma disease management differ for community-based health programs that target the under-served? * What is your staff-to-patient ratio in your depression management program? * How effective are physician-specific report cards in getting physicians in practice with the guidelines? * Is there any other type of literature that would support the effectiveness as well? * What is an accurate assessment of a member?s readiness to change, and how do you create interventions that are applicable to each member?s stage of readiness? * How are the health coaches trained, and what kind of training gets them geared up to work with patients? * What is the average amount of time a

health coach spends per call per participant?The Healthcare Answer Book is also available on CD-ROM with keyword searching capability.Table of Contents * About This Document * Cost Containment o Predictive Modeling o Pay for Performance o Predictive Modeling in Pay for Performance o Predictive Modeling for Asthma & Pre-Natal o Reducing Trend & Spend o Tiered Networks * Industry Trends o Cultural Competency o Physician Engagement o Health Plan Quality Improvement o URAC Standards for Consumer Education and Support o The Patient?s Home: The New Healthcare Hub * e-Health Initiatives o Web Technology in CDHC o e-Visits o Moving from High-Tech to High-Touch o The Role of e-Health Initiatives o Personal Health Records & Electronic Medical Records * Disease Management o Asthma o Obesity o Depression o Behavior Modification o Resistant Patients o Health Coaches o Health Coach Training o Pre- and Post-Natal Care o The Role of Primary Care Physicians o Healthcare Toolkits * Workplace Wellness o HRAs o Incentives for Healthy Lifestyles o A Team Approach to Wellness * HIPAA Security and Privacy o HIPAA Security Compliance o HIPAA Security Auditing, Audit Trails & Audit Logs o HIPAA Security Risk Assessment * About the Experts * Glossary * For More Information * Index

Inductive Fuzzy Classification in Marketing Analytics

Lulu.com

This book highlights a collection of high-quality peer-reviewed research papers presented at the 7th International Conference on

Information System Design and Intelligent Applications (INDIA 2022), held at BVRIT Hyderabad College of Engineering for Women, Hyderabad, Telangana, India, from February 25 – 26, 2022. It covers a wide range of topics in computer science and information technology, from wireless networks, social networks, wireless sensor networks, information and network security, to web security, Internet of Things, bioinformatics, geoinformatics, and computer networks.

Performance Evaluation, Prediction and Visualization of Parallel Systems

Elsevier

Create and run a human resource analytics project with confidence For any human resource professional that wants to harness the power of analytics, this essential resource answers the questions: "Where do I start?" and "What tools are available?" Predictive Analytics for Human Resources is designed to answer these and other vital questions. The book explains the basics of every business—the vision, the brand, and the culture, and shows how predictive analytics supports them. The authors put the focus on the fundamentals of predictability and include a framework of logical questions to help set up an analytic program or project,

then follow up by offering a clear explanation of statistical applications. Predictive Analytics for Human Resources is a how-to guide filled with practical and targeted advice. The book starts with the basic idea of engaging in predictive analytics and walks through case simulations showing statistical examples. In addition, this important resource addresses the topics of internal coaching, mentoring, and sponsoring and includes information on how to recruit a sponsor. In the book, you'll find: A comprehensive guide to developing and implementing a human resource analytics project Illustrative examples that show how to go to market, develop a leadership model, and link it to financial targets through causal modeling Explanations of the ten steps required in building an analytics function How to add value through analysis of systems such as staffing, training, and retention For anyone who wants to launch an analytics project or program for HR, this complete guide provides the information and instruction to get started the right way.

Predicting the Future

Cambridge University Press

The proceedings set LNCS 12891, LNCS 12892, LNCS 12893, LNCS 12894

and LNCS 12895 constitute the proceedings of the 30th International Conference on Artificial Neural Networks, ICANN 2021, held in Bratislava, Slovakia, in September 2021.* The total of 265 full papers presented in these proceedings was carefully reviewed and selected from 496 submissions, and organized in 5 volumes. In this volume, the papers focus on topics such as computer vision and object detection, convolutional neural networks and kernel methods, deep learning and optimization, distributed and continual learning, explainable methods, few-shot learning and generative adversarial networks. *The conference was held online 2021 due to the COVID-19 pandemic.

New Product Forecasting Morgan Kaufmann

Question answering (QA) has become one of the fastest growing topics in computational linguistics and information access. To advance research in the area of dialogue-based question answering, we propose a combination of methods from different scientific fields (i.e., Information Retrieval, Dialogue Systems, Semantic Web, and Machine Learning). This book sheds light on adaptable dialogue-based question answering. We demonstrate the technical and computational feasibility of the proposed ideas, the introspective methods in particular, by beginning with an extensive introduction to the dialogical

problem domain which motivates the technical implementation. The ideas have been carried out in a mature natural language processing (NLP) system, the SmartWeb dialogue system, which was developed between 2004 and 2007 by partners from academia and industry. We have attempted to make this book a self-containing text and provide an extra section on the interdisciplinary scientific background. The target audience for this book comprises of researchers and students interested in the application potential of semantic technologies for difficult AI tasks such as working dialogue and QA systems.

Artificial Intelligence in Education State University of New York Press

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 near future.

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

Creating Value with Data Analytics in Marketing KIT Scientific Publishing

One consequence of the pervasive use of computers is that most documents originate in digital form. Widespread use of the Internet makes them readily available. Text mining – the process of analyzing unstructured natural-language text – is concerned with how to extract information from these documents. Developed from the authors ' highly successful Springer reference on text mining, Fundamentals of Predictive Text Mining is an introductory textbook and guide to this rapidly evolving field. Integrating topics spanning the varied disciplines of data mining, machine learning, databases, and computational linguistics, this uniquely useful book also provides practical advice for text mining. In-

depth discussions are presented on issues of document classification, information retrieval, clustering and organizing documents, information extraction, web-based data-sourcing, and prediction and evaluation. Background on data mining is beneficial, but not essential. Where advanced concepts are discussed that require mathematical maturity for a proper understanding, intuitive explanations are also provided for less advanced readers. Topics and features: presents a comprehensive, practical and easy-to-read introduction to text mining; includes chapter summaries, useful historical and bibliographic remarks, and classroom-tested exercises for each chapter; explores the application and utility of each method, as well as the optimum techniques for specific scenarios; provides several descriptive case studies that take readers from problem description to systems deployment in the real world; includes access to industrial-strength text-mining software that runs on any computer; describes methods that rely on basic statistical techniques, thus allowing for relevance to all languages (not just English); contains links to free downloadable software and other supplementary instruction material. Fundamentals of Predictive Text Mining is an essential resource for IT professionals and managers, as well as a key text for advanced undergraduate computer science students and beginning graduate students. Dr. Sholom M. Weiss is a Research Staff Member with the IBM Predictive Modeling group, in Yorktown Heights, New York, and Professor Emeritus of Computer Science at Rutgers University. Dr. Nitin

Indurkhya is Professor at the School of Computer Science and Engineering, University of New South Wales, Australia, as well as founder and president of data-mining consulting company Data-Miner Pty Ltd. Dr. Tong Zhang is Associate Professor at the Department of Statistics and Biostatistics at Rutgers University, New Jersey.

Dynamic Modeling, Predictive Control and Performance Monitoring Routledge

First published in 1976, this classic volume of original essays provides a unique and comprehensive review of the approaches and assumptions that dominate the field of election studies and voting behaviour. Critical reviews of theory and established research are combined with innovative and original studies of a variety of European countries, as well as North America. The volume presents valuable comparative data and methodological insights, including statistical analyses of voting data and critical accounts of major approaches to the representation of voting and party competition. These include party identification (the socio-psychological approach); dimensional analysis (the production of party spaces based on social and political cleavages); and rational choice analysis (the interaction between voters and parties within a policy space). This edition includes a new introduction by Ian Budge.

Ignorance Model-Based Performance Prediction for Concurrent Software

on Multicore Architectures---A Simulation-Based Approach
Annotation. This book constitutes the refereed proceedings of the joint conference on Machine Learning and Knowledge Discovery in Databases: ECML PKDD 2010, held in Barcelona, Spain, in September 2010. The 120 revised full papers presented in three volumes, together with 12 demos (out of 24 submitted demos), were carefully reviewed and selected from 658 paper submissions. In addition, 7 ML and 7 DM papers were distinguished by the program chairs on the basis of their exceptional scientific quality and high impact on the field. The conference intends to provide an international forum for the discussion of the latest high quality research results in all areas related to machine learning and knowledge discovery in databases. A topic widely explored from both ML and DM perspectives was graphs, with motivations ranging from molecular chemistry to social networks.

Discovery Science
Springer Nature
To enhance marketing analytics, approximate and inductive reasoning can be applied to handle uncertainty in individual marketing models. This book demonstrates the use of fuzzy logic for classification and segmentation in marketing campaigns. Based on practical experience as a data analyst and on

theoretical studies as a researcher, the author explains fuzzy classification, inductive logic and the concept of likelihood and introduces a blend of Bayesian and Fuzzy Set approaches, allowing reasonings on fuzzy sets that are derived by inductive logic. By application of this theory, the book guides the reader towards a gradual segmentation of customers which can enhance return on targeted marketing campaigns. The algorithms presented can be used for visualization, selection and prediction. The book shows how fuzzy logic can complement customer analytics by introducing fuzzy target groups. This book is for researchers, analytics professionals, data miners and students interested in fuzzy classification for marketing analytics.

The Limits Of Science Springer Nature

Model-Based Performance Prediction for Concurrent Software on Multicore Architectures---A Simulation-Based ApproachKIT Scientific Publishing

Databases Theory and Applications Springer Science & Business Media

This book constitutes the refereed proceedings of the 18th International Conference on Artificial Intelligence in Education, AIED 2017, held in Wuhan, China,

in June/July 2017. The 36 revised full papers presented together with 4 keynotes, 37 poster, presentations, 4 doctoral consortium papers, 5 industry papers, 4 workshop abstracts, and 2 tutorial abstracts were carefully reviewed and selected from 159 submissions. The conference provides opportunities for the cross-fertilization of approaches, techniques and ideas from the many fields that comprise AIED, including computer science, cognitive and learning sciences, education, game design, psychology, sociology, linguistics as well as many domain-specific areas.

Artificial Neural Networks and Machine Learning – ICANN 2021 Springer This book is the first technical guide to provide a complete, generalized road map for developing data-mining applications, together with advice on performing these large-scale, open-ended analyses for real-world data warehouses.

Advances in Business and Management Forecasting University of Pittsburgh Pre A typical design procedure for model predictive control or control performance monitoring consists of: 1. identification of a parametric or nonparametric model; 2. derivation of the output predictor from the model; 3. design of the control law or calculation of

performance indices according to the predictor. Both design problems need an explicit model form and both require this three-step design procedure. Can this design procedure be simplified? Can an explicit model be avoided? With these questions in mind, the authors eliminate the first and second step of the above design procedure, a "data-driven" approach in the sense that no traditional parametric models are used; hence, the intermediate subspace matrices, which are obtained from the process data and otherwise identified as a first step in the subspace identification methods, are used directly for the designs. Without using an explicit model, the design procedure is simplified and the modelling error caused by parameterization is eliminated.

Model-Based Performance Prediction for Concurrent Software on Multicore Architectures---A Simulation-Based Approach Springer Science & Business Media

Here's what you get in this book: - 300 practice questions and answers spanning the breadth of topics under the data science umbrella - Covers statistics, machine learning, SQL, NoSQL, Hadoop and

bioinformatics - Emphasis on real-world application with a chapter on Python libraries for machine learning - Focus on the most frequently asked interview questions. Avoid information overload - Compact format: easy to read, easy to carry, so you can study on-the-go Now, you finally have what you need to crush your data science interview, and land that dream job. About The Author Zack Austin has been building large scale enterprise systems for clients in the media, telecom, financial services and publishing since 2001. He is based in New York City.

The Predictive Validity of Selected Benchmark Assessments Used in the Mid-Atlantic Region. Issues & Answers. REL 2007-No. 017 Springer Nature

Climate change is one of society ' s great challenges. The scientific community agrees that human activity is to a large degree responsible for these changes and efforts to promote more sustainable behaviors and lifestyles often backfire. People travel for longer distances when driving a vehicle that uses a ' sustainable ' energy source; they purchase ' organic ' food as a means to be environmentally

friendly without necessarily reducing other means of consumption; and those who deliberately change their behavior to be more environmentally friendly in one area often start behaving environmentally irresponsibly in another.
Environmentally harmful behavior and decision making often have their roots in cognitive biases and cognitive inabilities to properly understand climate change issues, to understand the effects of one's own behavior on the environment, and other means by which thinking and reasoning about climate change issues are biased.