Chapter 9 Decision Trees Bgu

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Principles of Biomedical Informatics
Machine Learning in Action
Data Mining and Knowledge Discovery Handbook
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Decision Making in Health and Medicine
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A Field Guide to Genetic Programming
Recent Advances in Data Mining of Enterprise Data
Desert Olive Oil Cultivation
Volume 2

CALI TOWNSEND

Advanced Bio Technologies Springer
This book is the third in a series evaluating underexploited African plant resources that could help broaden and secure Africa's food supply. The volume describes 24 little-known indigenous African cultivated and wild fruits that have potential as food- and cash-crops but are typically overlooked by scientists, policymakers, and the world at large. The book assesses the potential of each fruit to help overcome malnutrition, boost food security, foster rural development, and create sustainable landcare in Africa. Each fruit is also described in a separate chapter, based on information provided and assessed by experts throughout the world. Volume I describes African grains and Volume II African vegetables.
Decomposition Methodology for Knowledge Discovery and Data Mining Lulu.com
This updated compendium provides a methodical introduction with a coherent and unified repository of ensemble methods, theories, trends, challenges, and applications. More than a third of this edition comprised of new materials, highlighting descriptions of the classic methods, and extensions and novel approaches that have recently been introduced.Along with algorithmic descriptions of each method, the settings in which each method is applicable and the consequences and tradeoffs incurred by using the method is succinctly featured. R code for implementation of the algorithm is also emphasized.The unique volume provides researchers, students and practitioners in industry with a comprehensive, concise and convenient resource on ensemble learning methods.
Academic Press
START-UP NATION addresses the trillion dollar question: How is it that Israel-- a country of 7.1 million, only 60 years old, surrounded by enemies, in a constant state of war since its founding, with no natural resources-- produces more start-up companies than large, peaceful, and stable nations like Japan, China, India, Korea, Canada and the UK? With the savvy of foreign policy insiders, Senor and Singer examine the lessons of the country's adversity-driven culture, which flattens hierarchy and elevates informality-- all backed up by government policies focused on innovation. In a world where economies as diverse as Ireland, Singapore and Dubai have tried to re-create the "Israel effect", there are entrepreneurial lessons well worth noting. As America reboots its own

economy and can-do spirit, there's never been a better time to look at this remarkable and resilient nation for some impressive, surprising clues.

Recovering Biblical Manhood and Womanhood (Revised Edition) Academic Press

Data Mining and Knowledge Discovery HandbookSpringer Science & Business Media

Principles of Biomedical Informatics World Scientific

In Moscow Rules Gabriel Allon went up against the sadisitc Ivan Kharkov. Now he must outsmart him once and for all in this #1 New York Times bestseller from Daniel Silva. Grigori Bulganov once saved Gabriel Allon's life in Moscow—and Allon always repays his debts. So when the former Russian intelligence officer vanishes, Allon gathers his team of operatives to go after those responsible. But, in a running battle that rages across the globe, Allon soon realizes that his enemy may already hold the key to victory. And that if he continues, it will cost him more than he can bear...

Machine Learning in Action World Scientific

This book reviews the latest research from psychology, neuroscience, and behavioral economics evaluating how people make financial choices in real-life circumstances. The volume is divided into three sections investigating financial decision making at the level of the brain, the level of an individual decision maker, and the level of the society, concluding with a discussion of the implications for further research. Among the topics discussed: Neural and hormonal bases of financial decision making Personality, cognitive abilities, emotions, and financial decisions Aging and financial decision making Coping methods for making financial choices under uncertainty Stock market crashes and market bubbles Psychological perspectives on borrowing, paying taxes, gambling, and charitable giving Psychological Perspectives on Financial Decision Making is a useful reference for researchers both in and outside of psychology, including decision-making experts, consumer psychologists, and behavioral economists.

Data Mining and Knowledge Discovery Handbook Morgan & Claypool Publishers

Genetic programming (GP) is a systematic, domain-independent method for getting computers to solve problems automatically starting from a high-level statement of what needs to be done. Using ideas from natural evolution, GP starts from an ooze of random computer programs, and progressively refines them through processes of mutation and sexual recombination, until high-fitness solutions emerge. All this without the user having to know or specify the form or structure of solutions in advance. GP has generated a plethora of human-competitive results and applications, including novel scientific discoveries and patentable inventions. This unique overview of this exciting technique is written by three of the most active scientists in GP. See www.gp-field-guide.org.uk for more information on the book.

C4.5 Morgan & Claypool

"This book presents cutting-edge research and analysis of the most recent advancements in the fields of database systems and software development"--Provided by publisher.

A Response to Evangelical Feminism IGI Global

This second edition of a pioneering technical work in biomedical informatics provides a very readable treatment of the deep computational ideas at the foundation of the field. Principles of Biomedical Informatics, 2nd Edition is radically reorganized to make it especially useable as a textbook for courses that move beyond the standard introductory material. It includes exercises at the end of each chapter, ideas for student projects, and a number of new topics, such as: • tree structured data, interval trees, and time-oriented medical data and their use • On Line Application Processing (OLAP), an old database idea that is only recently coming of age and finding surprising importance in biomedical informatics • a discussion of nursing knowledge and an example of encoding nursing advice in a rule-based system • X-ray physics and algorithms for cross-sectional medical image reconstruction, recognizing that this area was one of the most central to the origin of biomedical computing • an introduction to Markov processes, and • an outline of the elements of a hospital IT security program, focusing on fundamental ideas rather than specifics of system vulnerabilities or specific technologies. It is simultaneously a unified description of the core research concept areas of biomedical data and knowledge representation, biomedical information access, biomedical decision-making, and information and technology use in biomedical contexts, and a pre-eminent teaching reference for the growing number of healthcare and computing professionals embracing computation in health-related fields. As in the first edition, it includes many worked example programs in Common LISP, the most powerful and accessible modern language for advanced biomedical concept representation and manipulation. The text also includes humor, history, and anecdotal material to balance the mathematically and computationally intensive development in many of the topic areas. The emphasis, as in the first edition, is on ideas and methods that are likely to be of lasting value, not just the popular topics of the day. Ira Kalet is Professor Emeritus of Radiation Oncology, and of Biomedical Informatics and Medical Education, at the University of Washington. Until retiring in 2011 he was also an Adjunct Professor in Computer Science and Engineering, and Biological Structure. From 2005 to 2010 he served as IT Security Director for the University of Washington School of Medicine and its major teaching hospitals. He has been a member of the American Medical Informatics Association since 1990, and an elected Fellow of the American College of Medical Informatics since 2011. His research interests include simulation systems for design of radiation treatment for cancer, software development methodology, and artificial intelligence applications to medicine, particularly expert systems, ontologies and modeling. Develops principles and methods for representing biomedical data, using information in context and in decision making, and accessing information to assist the medical community in using data to its full potential Provides a series of principles for expressing biomedical data and ideas in a computable form to integrate biological, clinical, and public health applications Includes a discussion of user interfaces, interactive graphics, and knowledge resources and reference material on programming languages to provide medical informatics programmers with the technical tools to develop systems

Combined Aquaculture and Hydroponic Production Technologies for the Future National Academies Press

Data Mining is the science and technology of exploring data in order to discover previously unknown patterns. It is a part of the overall process of Knowledge Discovery in Databases (KDD). The accessibility and abundance of information today makes data mining a matter of considerable importance and necessity. This book provides an introduction to the field with an emphasis on advanced decomposition methods in general data mining tasks and for classification tasks in particular. The book presents a complete methodology for decomposing classification problems into smaller and more manageable sub-problems that are

solvable by using existing tools. The various elements are then joined together to solve the initial problem. The benefits of decomposition methodology in data mining include: increased performance (classification accuracy); conceptual simplification of the problem; enhanced feasibility for huge databases; clearer and more comprehensible results; reduced runtime by solving smaller problems and by using parallel/distributed computation; and the opportunity of using different techniques for individual sub-problems.

Decision Making in Health and Medicine Crossway

This volume provides a foundation for understanding the fundamentals of biomedical informatics, which deals with the storage, retrieval and use of biomedical data for biological problem solving and medical decision making. It covers the three main biomedical domains of basic biology, clinical medicine and public health.

Psychological Perspectives on Financial Decision Making Springer

This market-leading introduction to probability features exceptionally clear explanations of the mathematics of probability theory and explores its many diverse applications through numerous interesting and motivational examples. The outstanding problem sets are a hallmark feature of this book. Provides clear, complete explanations to fully explain mathematical concepts. Features subsections on the probabilistic method and the maximum-minimums identity. Includes many new examples relating to DNA matching, utility, finance, and applications of the probabilistic method. Features an intuitive treatment of probability—intuitive explanations follow many examples. The Probability Models Disk included with each copy of the book, contains six probability models that are referenced in the book and allow readers to quickly and easily perform calculations and simulations.

Pattern Classification Using Ensemble Methods Data Mining and Knowledge Discovery Handbook

A guide for everyone involved in medical decision making to plot a clear course through complex and conflicting benefits and risks.

Intelligence and Security Informatics Morgan Kaufmann

This book organizes key concepts, theories, standards, methodologies, trends, challenges and applications of data mining and knowledge discovery in databases. It first surveys, then provides comprehensive yet concise algorithmic descriptions of methods, including classic methods plus the extensions and novel methods developed recently. It also gives in-depth descriptions of data mining applications in various interdisciplinary industries.

Trends and Applications in Information Systems and Technologies Springer

The essential healthcare guide to doing more with existing resources The healthcare industry faces foundational challenges to how it sustains itself. As the gap between cost and revenue continues to widen, and as cost-effectiveness remains an elusive imperative, the question persists: how can healthcare organizations do more with the same resources? The Hospital and Clinic Improvement Handbook is a practical guide to how operations management -- in particular Lean and the Theory of Constraints (TOC) -- can rapidly advance value and performance in any healthcare organization. Utilizing a systems approach that will be relevant for healthcare managers and executives, it unpacks and demystifies concepts such as performance measures, operations, quality, cost accounting, pricing, and value enhancement, all as they relate to eliminating waste and non-value-adding activities. Enriched with dozens of examples and building on the authors' experience teaching and refining these concepts for healthcare, this text is an essential guide for executives and managers across the industry.

Techniques and Applications Oxford University Press

Due to continual progress in the large-scale integration of semiconductor circuits, parallel computing principles can already be met in low-cost sys tems: numerous examples exist in image processing, for which special hard ware is implementable with quite modest resources even by nonprofessional designers. Principles of content addressing, if thoroughly understood, can thereby be applied effectively using standard components. On the other hand, mass storage based on associative principles still exists only in the long term plans of computer technologists. This situation is somewhat confused by the fact that certain expectations are held for the development of new storage media such as optical memories and "spin glasses" (metal alloys with low-density magnetic impurities). Their technologies, however, may not ripen until after "fifth generation" computers have been built. It seems that software methods for content addressing, especially those based on hash coding principles, are still holding their position firmly, and a few innovations have been developed recently. As they need no special hardware, one might expect that they will spread to a wide circle of users. This monograph is based on an extensive literature survey, most of which was published in the First Edition. I have added Chap. ?, which contains a review of more recent work. This updated book now has references to over 1200 original publications. In the editing of the new material, I received valuable help from Anneli HeimbUrger, M. Sc. , and Mrs. Leila Koivisto.

Learning from Data Springer Nature

A Guide to Navigate Evangelical Feminism In a society where gender roles are a hot-button topic, the church is not immune to the controversy. In fact, the church has wrestled with varying degrees of evangelical feminism for decades. As evangelical feminism has crept into the church, time-trusted resources like Recovering Biblical Manhood and Womanhood help remind Christians of what the Bible has to say. In this edition of the award-winning best seller, more than 20 influential men and women such as John Piper, Wayne Grudem, D. A. Carson, and Elisabeth Elliot offer thought-provoking essays responding to the challenge egalitarianism poses to life in the church and in the home. Covering topics like role distinctions in the church, how biblical manhood and womanhood should work out in practice, and women in the history of the church, this helpful resource will help readers learn to orient their beliefs with God’s unchanging word in an ever-changing culture.

The Power to Predict Who Will Click, Buy, Lie, or Die Apress

Decision trees have become one of the most powerful and popular approaches in knowledge discovery and data mining; it is the science of exploring large and complex bodies of data in order to discover useful patterns. Decision tree learning continues to evolve over time. Existing methods are constantly being improved and new methods introduced.This 2nd Edition is dedicated entirely to the field of decision trees in data mining; to cover all aspects of this important technique, as well as improved or new methods and techniques developed after the publication of our first edition. In this new edition, all chapters have been revised and new topics brought in. New topics include Cost-Sensitive Active Learning, Learning with Uncertain and Imbalanced Data, Using Decision Trees beyond Classification Tasks, Privacy Preserving Decision Tree Learning, Lessons Learned from Comparative Studies, and Learning Decision Trees for Big Data. A walk-through guide to existing open-source data mining software is also

included in this edition.This book invites readers to explore the many benefits in data mining that decision trees offer: Implementing Practical Data Structures in Kotlin World Scientific Publishing Company This second edition of a well-received text, with 20 new chapters, presents a coherent and unified repository of recommender systems' major concepts, theories, methodologies, trends, and challenges. A variety of real-world applications and detailed case studies are included. In addition to wholesale revision of the existing chapters, this edition includes new topics including: decision making and recommender systems, reciprocal recommender systems, recommender systems in social networks, mobile recommender systems, explanations for recommender systems, music recommender systems, cross-domain recommendations, privacy in recommender systems, and semantic-based recommender systems. This multi-disciplinary handbook involves world-wide experts from diverse fields such as artificial intelligence, human-computer interaction, information retrieval, data mining, mathematics, statistics, adaptive user interfaces, decision support systems, psychology, marketing, and consumer behavior. Theoreticians and practitioners from these fields will find this reference to be an invaluable source of ideas, methods and techniques for developing more efficient, cost-effective and accurate recommender systems.

Julia Domna and the Imperial Politics of Motherhood Springer Science & Business Media

The objective of our monograph is to cover the developments on the theoretical foundations of distributed symmetry breaking in the message-passing model. We hope that our monograph will stimulate further progress in this exciting area.

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