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Decision Trees for Decision Making-John F. Magee 1964

The Decision Tree-Thomas Goetz 2011-03-01 For all the talk about personalized medicine, our health care system remains a top-down, doctor-driven system where individuals are too often bit players in their own health decisions. In The Decision Tree, Thomas Goetz proposes a new strategy for thinking about health, one that applies cutting-edge technology to put us at the center of the equation and explains how the new frontier of health care can impact each of our lives.

Interpretable Machine Learning-Christoph Molnar 2019

Decision Analysis for Petroleum Exploration-Paul D. Newendorp 2017-07-20 Decision Analysis for Petroleum Exploration By Paul D. Newendorp

Risk Assessment-Lee T. Ostrom 2019-07-09 Guides the reader through a risk assessment and shows them the proper tools to be used at the various steps in the process This brand new edition of one of the most authoritative books on risk assessment adds ten new chapters to its pages to keep readers up to date with the changes in the types of risk that individuals, businesses, and governments are being exposed to today. It leads readers through a risk assessment and shows them the proper tools to be used at various steps in the process. The book also provides readers with a toolbox of techniques that can be used to aid them in analyzing conceptual designs, completed designs, procedures, and operational risk. Risk Assessment: Tools, Techniques, and Their Applications, Second Edition includes expanded case studies and real life examples; coverage on risk assessment software like SAPPHIRE and RAVEN; and end-of-chapter questions for students. Chapters progress from the concept of risk, through the simple risk assessment techniques, and into the more complex techniques. In addition to discussing the techniques, this book presents them in a form that the readers can readily adapt to their particular situation. Each chapter, where applicable, presents the technique discussed in that chapter and demonstrates how it is used. Expands on case studies and real world examples, so that the reader can see complete examples that demonstrate how each of the techniques can be used in analyzing a range of scenarios Includes 10 new chapters, including Bayesian and Monte Carlo Analyses; Hazard and Operability (HAZOP) Analysis; Threat Assessment Techniques; Cyber Risk Assessment; High Risk Technologies; Enterprise Risk Management Techniques Adds end-of-chapter questions for students, and provides a solutions manual for academic adopters Acts as a practical toolkit that can accompany the practitioner as they perform a risk assessment and allows the reader to identify the right assessment for their situation Presents risk assessment techniques in a form that the readers can readily adapt to their particular situation Risk Assessment: Tools, Techniques, and Their Applications, Second Edition is an important book for professionals that make risk-based decisions for their companies in various industries, including the insurance industry, loss control, forensics, all domains of safety, engineering and technical fields, management science, and decision analysis. It is also an excellent standalone textbook for a risk assessment or a risk management course.

Project Economics and Decision Analysis: Probabilistic models-M. A. Mian 2002 This comprehensive two-volume set provides all the necessary concepts of capital investment evaluation, capital budgeting, and decision analysis. Mian takes the reader step-by-step through the decision making process, providing comprehensive coverage of all decision analysis tools currently available while outlining how investment decisions are made under different stages of risk. Further, he focuses on practical application, using a straightfoward approach with solved 'real-life' examples and solutions, end-of-chapter problems, and illustrations throughout the book.

Comparative Analysis of Deterministic and Nondeterministic Decision Trees-Mikhail Moshkov 2020-03-14

This book compares four parameters of problems in arbitrary information systems: complexity of problem representation and complexity of deterministic, nondeterministic, and strongly nondeterministic decision trees for problem solving. Deterministic decision trees are widely used as classifiers, as a means of knowledge representation, and as algorithms. Nondeterministic (strongly nondeterministic) decision trees can be interpreted as systems of true decision rules that cover all objects (objects from one decision class). This book develops tools for the study of decision trees, including bounds on complexity and algorithms for construction of decision trees for decision tables with many-valued decisions. It considers two approaches to the investigation of decision trees for problems in information systems: local, when decision trees can use only attributes from the problem representation; and global, when decision trees can use arbitrary attributes from the information system. For both approaches, it describes all possible types of relationships among the four parameters considered and discusses the algorithmic problems related to decision tree optimization. The results presented are useful for researchers who apply decision trees and rules to algorithm design and to data analysis, especially those working in rough set theory, test theory and logical analysis of data. This book can also be used as the basis for graduate courses.

Project Valuation and Decision Making under Risk and Uncertainty applying Decision Tree Analysis and Monte Carlo Simulation-Donald Dibra 2015-04-28 This work presents the application of the Monte Carlo Simulation method and the Decision Tree Analysis approach when dealing with the economic valuation of projects which are subjected to risks and uncertainties. The Net Present Value of a project is usually used as an investment decision parameter. Using deterministic models to calculate a project's Net Present Value neglects the risky and uncertain nature of real life projects and consequently leads to useless valuation results. Realistic valuation models need to use probability density distributions for the input parameters and certain probabilities for the occurrence of specific events during the life time of a project in combination with the Monte Carlo Simulation method and the Decision Tree Analysis approach. After a short introduction a brief explanation of the traditional project valuation methods is given. The main focus of this work lies in using the Net Present Value method as a basic valuation tool in conjunction with the Monte Carlo Simulation technique and the Decision Tree Analysis approach to form a comprehensive method for project valuation under risk and uncertainty. The extensive project valuation methodology introduced is applied on two fictional projects, one from the pharmaceutical sector and one from the oil and gas exploration and production industry. Both industries deal with high risks, high uncertainties and high costs, but also high rewards. The example from the pharmaceutical industry illustrates very well how the application of the Monte Carlo Simulation and Decision Tree Analysis method, results in a well-diversified portfolio of new drugs with the highest reward at minimum possible risk. Applying the presented probabilistic project valuation approach on the oil exploration and production project shows how to reduce the risk of losing big.

Use of Decision Tree Analysis to Evaluate the Effects of Viticultural Variables on Wine Chemistry-Graham H. Wehmeier 2002

Classification and Regression Trees-Leo Breiman 2017-10-19 The methodology used to construct tree structured rules is the focus of this monograph. Unlike many other statistical procedures, which moved from pencil and paper to calculators, this text's use of trees was unthinkable before computers. Both the practical and theoretical sides have been developed in the authors' study of tree methods. Classification and Regression Trees reflects these two sides, covering the use of trees as a data analysis method, and in a more mathematical framework, proving some of their fundamental properties.

Managerial Decision Analysis-Danny Samson 1992-05-19 This text focuses on how decision analysis can be used to support the managerial decision process. It supports professors and students in the classroom with extensive case studies and problem sets, and with Arborist software and documentation.

Finance for Engineers-Frank Crundwell 2008-03-11 With flair and an originality of approach, Crundwell brings his considerable experience to bear on this crucial topic. Uniquely, this book discusses the technical and financial aspects of decision-making in engineering and demonstrates these through case studies. It's a hugely important matter as, of course, engineering solutions and financial decisions are intimately tied together. The best engineers combine the technical and financial cases in determining new solutions to opportunities, challenges and problems. To get your project approved, no matter the size of it, the financial case must be clear and compelling. This book provides a framework for engineers and scientists to undertake financial evaluations and assessments of engineering or production projects.

Petroleum Engineering Handbook for the Practicing Engineer-M. A. Mian 1992 This first of two volumes provides a comprehensive overview of petroleum engineering. Created with the purpose of answering daily questions faced by the practicing petroleum engineer, it is suitable for field and office use.

Improving Homeland Security Decisions-Ali E. Abbas 2017-10-31 What are the risks of terrorism and what are their consequences and economic impacts? Are we safer from terrorism today than before 9/11? Does the government spend our homeland security funds well? These questions motivated a twelve-year research program of the National Center for Risk and Economic Analysis of Terrorism Events (CREATE) at the University of Southern California, funded by the Department of Homeland Security. This book showcases some of the most important results of this research and offers key insights on how to address the most important security problems of our time. Written for homeland security researchers and practitioners, this book covers a wide range of methodologies and real-world examples of how to reduce terrorism risks, increase the efficient use of homeland security resources, and thereby make better decisions overall.

Risk and Rigor-Marjory Aaron 2019-04 Clear step-by-step explanations of decision tree analysis along with guidance on assessing probabilities, tangible and intangible costs, and damage ranges.

Management-Vincent A. Gabriel 2005-02

Network Analysis for Management Decisions-S.M. Lee 2012-12-06

Readings in Decision Analysis-S. French 1989-03-01 Provides an introduction to decision analysis. This book is based upon a number of papers and articles taken from the Operational Research Society's journal and other publications. However, the book is not simply a 'collection of reprints': Professor French has provided extensive notes and commentary to weave the extracts into a coherent whole. Although techniques are presented, the main thrust is to convey the purpose of decision analysis and the interpretation that should be placed upon its output: vital topics, but ones seldom discussed in introductory texts. The writing is aimed at the non-technical reader.

Real Options Analysis-Johnathan Mun 2002-10-03 Cutting-edge information on the valuation and application of real options Most investors and risk managers are familiar with financial options. But the real option structure is embedded in billions of dollars of stocks traded every day, and in billions of dollars of strategic or investment decisions made by many companies. Real options are a useful tool to guide a firm's strategic planning, and can create or enhance a firm's value. Real Options Analysis provides a revolutionary approach to evaluating and valuing capital investment strategies by taking into consideration the real options inherent in the strategic decision-making process. This book provides readers with a qualitative and quantitative description of real options, the methods used in solving real options, why and when they are used, and the applicability of these methods in decision-making. In addition, multiple business cases and real-life scenarios are discussed. This includes presenting and framing the problems, as well as the introduction of a stepwise quantitative process developed by the author for solving these problems using the different methodologies inherent in real options-with the assistance of Real Options software powered by Crystal Ball(TM), which is included on the companion CD-ROM. With technical presentations of models and approaches backed by theoretical and mathematical justifications, Real Options Analysis is one of the most comprehensive guides available on real options.

Analysis of Boolean Functions-Ryan O'Donnell 2014-06-05 This graduate-level text gives a thorough overview of the analysis of Boolean functions, beginning with the most basic definitions and proceeding to advanced topics.

Quantitative Techniques-P. C. Tulsian 2006 Quantitative Techniques: Theory and Problems adopts a fresh and novel approach to the study of quantitative techniques, and provides a comprehensive coverage of the subject. Essentially designed for extensive practice and self-study, this book will serve as a tutor at home. Chapters contain theory in brief, numerous solved examples and exercises with exhibits and tables.

Operations research-Dr. R.K. Gupta 1992

Using Information to Develop a Culture of Customer Centricity-David Loshin 2013-11-22 Using Information to Develop a Culture of Customer Centricity sets the stage for understanding the holistic marriage of information, socialization, and process change necessary for transitioning an organization to customer centricity. The book begins with an overview list of 8-10 precepts associated with a business-focused view of the knowledge necessary for developing customer-oriented business processes that lead to excellent customer experiences resulting in increased revenues. Each chapter delves into each precept in more detail.

Machine Learning-Ryszard S. Michalski 2014-06-28 Machine Learning: An Artificial Intelligence Approach contains tutorial overviews and research papers representative of trends in the area of machine learning as viewed from an artificial intelligence perspective. The book is organized into six parts. Part I provides an overview of machine learning and explains why machines should learn. Part II covers important issues affecting the design of learning programs—particularly programs that learn from examples. It also

describes inductive learning systems. Part III deals with learning by analogy, by experimentation, and from experience. Parts IV and V discuss learning from observation and discovery, and learning from instruction, respectively. Part VI presents two studies on applied learning systems—one on the recovery of valuable information via inductive inference; the other on inducing models of simple algebraic skills from observed student performance in the context of the Leeds Modeling System (LMS). This book is intended for researchers in artificial intelligence, computer science, and cognitive psychology; students in artificial intelligence and related disciplines; and a diverse range of readers, including computer scientists, robotics experts, knowledge engineers, educators, philosophers, data analysts, psychologists, and electronic engineers.

Comprehensive Chemometrics-Steven Brown 2020-05-26 Comprehensive Chemometrics, Second Edition features expanded and updated coverage, along with new content that covers advances in the field since the previous edition published in 2009. Subject of note include updates in the fields of multidimensional and megavariate data analysis, omics data analysis, big chemical and biochemical data analysis, data fusion and sparse methods. The book follows a similar structure to the previous edition, using the same section titles to frame articles. Many chapters from the previous edition are updated, but there are also many new chapters on the latest developments. Presents integrated reviews of each chemical and biological method, examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge, covering developments in the field since the first edition published in 2009 Meticulously organized, with articles split into 4 sections and 12 sub-sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience Presents integrated reviews of each chemical and biological method, examining their merits and limitations through practical examples and extensive visuals Bridges a gap in knowledge, covering developments in the field since the first edition published in 2009 Meticulously organized, with articles split into 4 sections and 12 sub-sections on key topics to allow students, researchers and professionals to find relevant information quickly and easily Written by academics and practitioners from various fields and regions to ensure that the knowledge within is easily understood and applicable to a large audience

Biotechnology Valuation-Karl Keegan 2009-01-15 The first book to provide a simple and practical means of valuing biotech companies The book begins with a short history of the biotechnology industry; this is important as although it is about 30 years old, the first company went public only in 1996, so it is possible to plot the course of investment waves and dips It examines the European industry and its evolvement, and draws parallels between the similarities and differences between that and the US Looks at the various companies which make up the biotech industry (therapeutic; life sciences; and the medical technology company) and gives tools for the investor to properly evaluate them Praise for Biotechnology Valuation "Keegan states that the valuation of Biotech companies is as much an art as a science. This brief but comprehensive review of the skills and knowledge required, not of just the financial market and sentiment, but also of the technical attributes of a company and the drug development and regulatory hurdles that must be overcome, highlights the importance of the breadth of understanding required. Biotech investing is not for the timid, but it can bring substantial returns. Keegan's book, punctuated with his personal experience and opinions, is a good place to start." —Chris Blackwell, Chief Executive, Vectura Group plc "A user-friendly, yet thorough discussion of a notoriously difficult topic. Dr Keegan's book is a fine resource for both business types and academicians." —Steve Winokur, Managing Director, CanaccordAdams "A highly readable and comprehensive explanation of the technical and commercial parameters that influence biotechnology companies at all stages of development, providing clear context for selection from the toolkit of valuation methodologies the author recommends to assess company and product performance, or ascribe value." —Dr L.M. Allan, Director, Bioscience Enterprise Programme, University of Cambridge "A fabulous approach to a difficult topic." —Deirdre Y. Gillespie, MD, President & CEO, La Jolla Pharmaceutical Company

Decision Trees for Analytics Using SAS Enterprise Miner-Barry De Ville 2019-07-03 Decision Trees for Analytics Using SAS Enterprise Miner is the most comprehensive treatment of decision tree theory, use, and applications available in one easy-to-access place. This book illustrates the application and operation of decision trees in business intelligence, data mining, business analytics, prediction, and knowledge discovery. It explains in detail the use of decision trees as a data mining technique and how this technique complements and supplements data mining approaches such as regression, as well as other business intelligence applications that incorporate tabular reports, OLAP, or multidimensional cubes. An expanded

and enhanced release of Decision Trees for Business Intelligence and Data Mining Using SAS Enterprise Miner, this book adds up-to-date treatments of boosting and high-performance forest approaches and rule induction. There is a dedicated section on the most recent findings related to bias reduction in variable selection. It provides an exhaustive treatment of the end-to-end process of decision tree construction and the respective considerations and algorithms, and it includes discussions of key issues in decision tree practice. Analysts who have an introductory understanding of data mining and who are looking for a more advanced, in-depth look at the theory and methods of a decision tree approach to business intelligence and data mining will benefit from this book.

Confronting Climate Uncertainty in Water Resources Planning and Project Design-Patrick A. Ray 2015-08-20 Confronting Climate Uncertainty in Water Resources Planning and Project Design describes an approach to facing two fundamental and unavoidable issues brought about by climate change uncertainty in water resources planning and project design. The first is a risk assessment problem. The second relates to risk management. This book provides background on the risks relevant in water systems planning, the different approaches to scenario definition in water system planning, and an introduction to the decision-scaling methodology upon which the decision tree is based. The decision tree is described as a scientifically defensible, repeatable, direct and clear method for demonstrating the robustness of a project to climate change. While applicable to all water resources projects, it allocates effort to projects in a way that is consistent with their potential sensitivity to climate risk. The process was designed to be hierarchical, with different stages or phases of analysis triggered based on the findings of the previous phase. An application example is provided followed by a descriptions of some of the tools available for decision making under uncertainty and methods available for climate risk management. The tool was designed for the World Bank but can be applicable in other scenarios where similar challenges arise.

Decision Trees for Business Intelligence and Data Mining-Barry De Ville 2006 This example-driven guide illustrates the application and operation of decision trees in data mining, business intelligence, business analytics, prediction, and knowledge discovery. It explains in detail the use of decision trees as a data mining technique and how this technique complements and supplements other business intelligence applications.

Nature Inspired Computing-Bijaya Ketan Panigrahi 2017-10-03 This volume comprises the select proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. The volumes cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This volume focuses on Nature Inspired Computing. The contents of this book will be useful to researchers and students alike.

Rules of Thumb for Mechanical Engineers-J. Edward Pope 1997 Fluids -- Heat transfer -- Thermodynamics -- Mechanical seals -- Pumps and compressors -- Drivers -- Gears -- Bearings -- Piping and pressure vessels -- Tribology -- Vibration -- Materials -- Stress and strain -- Fatigue -- Instrumentation -- Engineering economics.

Strategic Decision Making-Craig W. Kirkwood 1997 This work on strategic decision making focuses on multi-objective decision analysis with spreadsheets

Decision Trees and Random Forests-Mark Koning 2017-10-04 If you want to learn how decision trees and random forests work, plus create your own, this visual book is for you. The fact is, decision tree and random forest algorithms are powerful and likely touch your life everyday. From online search to product development and credit scoring, both types of algorithms are at work behind the scenes in many modern applications and services. They are also used in countless industries such as medicine, manufacturing and finance to help companies make better decisions and reduce risk. Whether coded or scratched out by hand, both algorithms are powerful tools that can make a significant impact. This book is a visual introduction for beginners that unpacks the fundamentals of decision trees and random forests. If you want to dig into the basics with a visual twist plus create your own algorithms in Python, this book is for you.

Department of Homeland Security Bioterrorism Risk Assessment-National Research Council 2009-01-03 The mission of Department of Homeland Security Bioterrorism Risk Assessment: A Call for Change, the book published in December 2008, is to independently and scientifically review the methodology that led to the 2006 Department of Homeland Security report, Bioterrorism Risk Assessment (BTRA) and provide a foundation for future updates. This book identifies a number of fundamental concerns with the BTRA of 2006, ranging from mathematical and statistical mistakes that have corrupted results, to unnecessarily complicated probability models and models with fidelity far exceeding existing data, to more basic

questions about how terrorist behavior should be modeled. Rather than merely criticizing what was done in the BTRA of 2006, this new NRC book consults outside experts and collects a number of proposed alternatives that could improve DHS's ability to assess potential terrorist behavior as a key element of risk-informed decision making, and it explains these alternatives in the specific context of the BTRA and the bioterrorism threat.

The Elements of Statistical Learning-Trevor Hastie 2013-11-11 During the past decade there has been an explosion in computation and information technology. With it have come vast amounts of data in a variety of fields such as medicine, biology, finance, and marketing. The challenge of understanding these data has led to the development of new tools in the field of statistics, and spawned new areas such as data mining, machine learning, and bioinformatics. Many of these tools have common underpinnings but are often expressed with different terminology. This book describes the important ideas in these areas in a common conceptual framework. While the approach is statistical, the emphasis is on concepts rather than mathematics. Many examples are given, with a liberal use of color graphics. It should be a valuable resource for statisticians and anyone interested in data mining in science or industry. The book's coverage is broad, from supervised learning (prediction) to unsupervised learning. The many topics include neural networks, support vector machines, classification trees and boosting---the first comprehensive treatment of this topic in any book. This major new edition features many topics not covered in the original, including graphical models, random forests, ensemble methods, least angle regression & path algorithms for the lasso, non-negative matrix factorization, and spectral clustering. There is also a chapter on methods for "wide" data (p bigger than n), including multiple testing and false discovery rates. Trevor Hastie, Robert Tibshirani, and Jerome Friedman are professors of statistics at Stanford University. They are prominent researchers in this area: Hastie and Tibshirani developed generalized additive models and wrote a popular book of that title. Hastie co-developed much of the statistical modeling software and environment in R/S-PLUS and invented principal curves and surfaces. Tibshirani proposed the lasso and is co-author of the very successful An Introduction to the Bootstrap. Friedman is the co-inventor of many data-mining tools including CART, MARS, projection pursuit and gradient boosting.

Automatic Design of Decision-Tree Induction Algorithms-Rodrigo C. Barros 2015-02-04 Presents a detailed study of the major design components that constitute a top-down decision-tree induction algorithm, including aspects such as split criteria, stopping criteria, pruning and the approaches for dealing with missing values. Whereas the strategy still employed nowadays is to use a 'generic' decision-tree induction algorithm regardless of the data, the authors argue on the benefits that a bias-fitting strategy could bring to decision-tree induction, in which the ultimate goal is the automatic generation of a decision-tree induction algorithm tailored to the application domain of interest. For such, they discuss how one can effectively discover the most suitable set of components of decision-tree induction algorithms to deal with a wide variety of applications through the paradigm of evolutionary computation, following the emergence of a novel field called hyper-heuristics. "Automatic Design of Decision-Tree Induction Algorithms" would be highly useful for machine learning and evolutionary computation students and researchers alike.

Valuation Techniques-David T. Larrabee 2012-10-09 Analysis and insights from top thought leaders on a pivotal topic in investing and asset management Valuation is the cornerstone for investment analysis, and a thorough understanding and correct application of valuation methodologies are critical for long-term investing success. Edited by two leading valuation experts from CFA Institute, this book brings together the insights and expertise of some of the most astute and successful investment minds of the past 50 years. From Benjamin Graham, the "father of value investing," to Aswath Damodaran, you'll learn what these investment luminaries have to say about investment valuation techniques, including earnings and cash flow analysis. Features the best thinking on valuation from the industry's masters on the topic, supplemented with dozens of fascinating and instructive real-world examples Comprehensively discusses special valuation situations, such as real options, employee stock options, highly leveraged firms, corporate takeovers, and more Supplies you with the tools you need to successfully navigate and thrive in the ever-changing financial markets Is being produced with the full support and input of CFA Institute, the world's leading association of investment professionals

Project Valuation Using Real Options-Prasad Kodukula 2006-07-15 Business leaders are frequently faced with investment decisions on new and ongoing projects. The challenge lies in deciding what projects to choose, expand, contract, defer, or abandon, and which method of valuation to use is the key tool in the process. This title presents a step-by-step, practical approach to real options valuation to make it easily understandable by practitioners as well as senior management. This systematic approach to project valuation helps you minimize upfront investment risks, exercise flexibility in decision making, and

maximize the returns. Whereas the traditional decision tools such as discounted cash flow/net present value (DCF/NPV) analysis assume a "fixed" path ahead, real options analysis offers more flexible strategies. Considered one of the greatest innovations of modern finance, the real options approach is based on Nobel-prize winning work by three MIT economists, Fischer Black, Robert Merton, and Myron Scholes.

Fund of Financial Management 5e-Prasanna Chandra 2010

Selected Readings on Electronic Commerce Technologies: Contemporary Applications-Hu, Wen-Chen 2008-08-31 "This book offers research articles focused on key issues concerning the technologies and applications of electronic commerce"--Provided by publisher.

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