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A Concise Introduction to Decentralized POMDPs
Data Mining and Knowledge Discovery Handbook
Ensemble Learning: Pattern Classification Using Ensemble Methods (Second Edition)
Techniques, Practices, and Patterns for Building and Maintaining Effective Software Projects
Pattern Classification Using Ensemble Methods
Proceedings of i-TRAM 2021
Decision Making in Health and Medicine
Intelligent Infrastructure in Transportation and Management
Artificial Intelligence and Statistics V
Computational Prediction of Protein Complexes from Protein Interaction Networks
Volume 2
Recovering Biblical Manhood and Womanhood (Revised Edition)

CUNNINGHAM MIKAYLA

Actual Causality Springer Nature

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.

The Story of Israel's Economic Miracle Springer

Data Mining and Knowledge Discovery Handbook Springer Science & Business Media

Trends and Applications in Information Systems and Technologies World Scientific Publishing Company

Introduction to Probability Models, Tenth Edition, provides an introduction to elementary probability theory and stochastic processes. There are two approaches to the study of probability theory. One is heuristic and nonrigorous, and attempts to develop in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory, such as the random variable, conditional probability, and conditional expectation. This is followed by discussions of stochastic processes, including Markov chains and Poisson processes. The remaining chapters cover queuing, reliability theory, Brownian motion, and simulation. Many examples are worked out throughout the text, along with exercises to be solved by

students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Ideally, this text would be used in a one-year course in probability models, or a one-semester course in introductory probability theory or a course in elementary stochastic processes. New to this Edition: 65% new chapter material including coverage of finite capacity queues, insurance risk models and Markov chains Contains compulsory material for new Exam 3 of the Society of Actuaries containing several sections in the new exams Updated data, and a list of commonly used notations and equations, a robust ancillary package, including a ISM, SSM, and test bank Includes SPSS PASW Modeler and SAS JMP software packages which are widely used in the field Hallmark features: Superior writing style Excellent exercises and examples covering the wide breadth of coverage of probability topics Real-world applications in engineering, science, business and economics

Algorithms and Applications Academic Press

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.

Data Mining and Knowledge Discovery Handbook Guilford Press

Ten years ago Bill Gale of AT&T Bell Laboratories was primary organizer of the first Workshop on Artificial Intelligence and Statistics. In the early days of the Workshop series it seemed clear that researchers in AI and statistics had common interests, though with different emphases, goals, and vocabularies. In learning and model selection, for example, a historical goal of AI to build autonomous agents probably contributed to a focus on parameter-free learning systems, which relied little on an external

analyst's assumptions about the data. This seemed at odds with statistical strategy, which stemmed from a view that model selection methods were tools to augment, not replace, the abilities of a human analyst. Thus, statisticians have traditionally spent considerably more time exploiting prior information of the environment to model data and exploratory data analysis methods tailored to their assumptions. In statistics, special emphasis is placed on model checking, making extensive use of residual analysis, because all models are 'wrong', but some are better than others. It is increasingly recognized that AI researchers and/or AI programs can exploit the same kind of statistical strategies to good effect. Often AI researchers and statisticians emphasized different aspects of what in retrospect we might now regard as the same overriding tasks.

Using Lean and the Theory of Constraints for Better Healthcare Delivery Simon and Schuster

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.

Lost Crops of Africa Academic Press

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.

Distributed Graph Coloring Data Mining and Knowledge Discovery Handbook

The main goal of the new field of data mining is the analysis of large and complex datasets. Some very important datasets may be derived from business and industrial activities. This kind of data is known as "enterprise data". The common characteristic of such datasets is that the analyst wishes to analyze them for the purpose of designing a more cost-effective strategy for optimizing some type of performance measure, such as reducing production time, improving quality, eliminating wastes, or maximizing profit. Data in this category may describe different scheduling scenarios in a manufacturing environment, quality control of some process, fault diagnosis in the operation of a machine or process, risk analysis when issuing credit to applicants, management of supply chains in a manufacturing system, or data for business related decision-making.

Selected Writings Springer Nature

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.

A Field Guide to Genetic Programming Crossway

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.

Content-Addressable Memories Springer Science & Business Media

Due to the adverse stress conditions typical of olive cultivation in desert conditions, the olive tree is responding with production of high levels of antioxidant substances. Among these substances are polyphenols, tocopherols, and phytosterols. Studies have shown that saline irrigated varieties of olives have demonstrated advantages over those irrigated with tap water. This is just one of the aspects of desert cultivation of olives that is covered in Desert Olive Oil Advanced Biotechnologies. Based on 20 years of research, the book expounds on the appropriate selection of olive varieties with high productivity and oil quality, the impact of foliar nutrition on decreasing alternate bearing and increasing fruit quality, improving efficiency of mechanical harvesting, and increasing efficiency of oil extraction and oil quality regulating analysis. Addresses olive cultivation methods for semi-arid environments Focuses on intensive cultivation using saline and municipal waste recycled irrigation water and their significant impact on the production and nutritional value of olive oil Integrated and multidisciplinary approaches providing a comprehensive view of the desert olive industry Provides key considerations including ecological, biotechnological, agricultural and political impacts

Learning from Data Springer Science & Business Media

This open access book, written by world experts in aquaponics and related technologies, provides the authoritative and comprehensive overview of the key aquaculture and hydroponic and other integrated systems, socio-economic and environmental aspects. Aquaponic systems, which combine aquaculture and vegetable food production offer alternative technology solutions for a world that is increasingly under stress through population

growth, urbanisation, water shortages, land and soil degradation, environmental pollution, world hunger and climate change.

Fundamentals and Recent Developments Academic Press

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.

Julia Domna and the Imperial Politics of Motherhood

National Academies Press

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

Advanced Principles for Improving Database Design, Systems Modeling, and Software Development Morgan & Claypool Publishers

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.

Introduction to Probability Models JHU Press

A guide for everyone involved in medical decision making to plot a clear course through complex and conflicting benefits and risks. *Combined Aquaculture and Hydroponic Production Technologies for the Future* Academic Press

This book introduces multiagent planning under uncertainty as formalized by decentralized partially observable Markov decision processes (Dec-POMDPs). The intended audience is researchers and graduate students working in the fields of artificial intelligence related to sequential decision making: reinforcement learning, decision-theoretic planning for single agents, classical multiagent planning, decentralized control, and operations research.

Preference, Belief, and Similarity World Scientific

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.

The Defector Springer Nature

Summary Machine Learning in Action is unique book that blends the foundational theories of machine learning with the practical realities of building tools for everyday data analysis. You'll use the flexible Python programming language to build programs that implement algorithms for data classification, forecasting, recommendations, and higher-level features like summarization

and simplification. About the Book A machine is said to learn when its performance improves with experience. Learning requires algorithms and programs that capture data and ferret out the interesting or useful patterns. Once the specialized domain of analysts and mathematicians, machine learning is becoming a skill needed by many. Machine Learning in Action is a clearly written tutorial for developers. It avoids academic language and takes you straight to the techniques you'll use in your day-to-day work. Many (Python) examples present the core algorithms of statistical data processing, data analysis, and data visualization in code you can reuse. You'll understand the concepts and how they fit in with tactical tasks like classification, forecasting, recommendations, and higher-level features like summarization and simplification. Readers need no prior experience with machine learning or statistical processing. Familiarity with Python is helpful. Purchase of the print book comes with an offer of a free PDF, ePub, and Kindle eBook from Manning. Also available is all code from the book. What's Inside A no-nonsense introduction Examples showing common ML tasks Everyday data analysis Implementing classic algorithms like Apriori and Adaboos Table of Contents PART 1 CLASSIFICATION Machine learning basics Classifying with k-Nearest Neighbors Splitting datasets one feature at a time: decision trees Classifying with probability theory: naïve Bayes Logistic regression Support vector machines Improving classification with the AdaBoost meta algorithm PART 2 FORECASTING NUMERIC VALUES WITH REGRESSION Predicting numeric values: regression Tree-based regression PART 3 UNSUPERVISED LEARNING Grouping unlabeled items using k-means clustering Association analysis with the Apriori algorithm Efficiently finding frequent itemsets with FP-growth PART 4 ADDITIONAL TOOLS Using principal component analysis to simplify data Simplifying data with the singular value decomposition Big data and MapReduce

Start-up Nation Morgan & Claypool

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.

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