

CHAPTER 9 DECISION TREES BGU

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Intelligence and Security
Informatics - Hsinchun Chen
2008-06-17
The IEEE International
Conference on Intelligence and
Security Informatics (ISI) and
Pacific Asia Workshop on

Intelligence and Security
Informatics (PAISI) conference
series (<http://www.isiconference.org>) have drawn
significant attention in the
recent years. Intelligence and
Security Informatics is

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concerned with the study of the development and use of advanced information technologies and systems for national, international, and societal security-related applications. The ISI conference series have brought together academic researchers, law enforcement and intelligence experts, information technology consultant and practitioners to discuss their research and practice related to various ISI topics including ISI data management, data and text mining for ISI applications, terrorism informatics, deception and intent detection, terrorist and criminal social network analysis, public health and bio-security,

crime analysis, information infrastructure protection, transportation infrastructure security, policy studies and evaluation, information assurance, among others. In this book, we collect the work of the most active researchers in the area. Topics include data and text mining in terrorism, information sharing, social network analysis, Web-based intelligence monitoring and analysis, crime data analysis, infrastructure protection, deception and intent detection and more. Scope and Organization The book is organized in four major areas. The first unit focuses on the terrorism informatics and data

mining. The second unit discusses the intelligence and crime analysis. The third unit covers access control, infrastructure protection, and privacy. The fourth unit presents surveillance and emergency response.

The Defector - Daniel Silva

2009-07-21

In *Moscow Rules* Gabriel Allon went up against the sadistic 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...

Qualitative Research from Start to Finish, First Edition - Robert

K. Yin 2011-09-26

This lively, practical text presents a fresh and comprehensive approach to doing qualitative research. The book offers a unique balance of theory and clear-cut choices for customizing every phase of a qualitative study. A scholarly

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mix of classic and contemporary studies from multiple disciplines provides compelling, field-based examples of the full range of qualitative approaches. Readers learn about adaptive ways of designing studies, collecting data, analyzing data, and reporting findings. Key aspects of the researcher's craft are addressed, such as fieldwork options, the five phases of data analysis (with and without using computer-based software), and how to incorporate the researcher's "declarative" and "reflective" selves into a final report. Ideal for graduate-level courses, the text includes:*

Discussions of ethnography, grounded theory,

phenomenology, feminist research, and other approaches.* Instructions for creating a study bank to get a new study started.* End-of-chapter exercises and a semester-long, field-based project.* Quick study boxes, research vignettes, sample studies, and a glossary.*

Previews for sections within chapters, and chapter recaps.*

Discussion of the place of qualitative research among other social science methods, including mixed methods research.

Encyclopedia of Artificial Intelligence - Juan Ramon Rabunal 2009-01-01

"This book is a comprehensive

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and in-depth reference to the most recent developments in the field covering theoretical developments, techniques, technologies, among others"--

Provided by publisher.

Database Technologies: Concepts, Methodologies, Tools, and Applications - Erickson, John 2009-02-28

"This reference expands the field of database technologies through four-volumes of in-depth, advanced research articles from nearly 300 of the world's leading professionals"--

Provided by publisher.

A First Course in Probability - Sheldon M. Ross 2002
P. 15.

An Introduction to Jewish Law -

François-Xavier Licari

2019-03-28

This is the first book to present a systematic and synthetic introduction to Jewish law.

Hands-On Artificial Intelligence for Cybersecurity - Alessandro

Parisi 2019-08-02

Build smart cybersecurity systems with the power of machine learning and deep learning to protect your corporate assets Key

FeaturesIdentify and predict security threats using artificial intelligenceDevelop intelligent

systems that can detect unusual and suspicious patterns and attacksLearn how to test the effectiveness of your AI

cybersecurity algorithms and

toolsBook Description Today's organizations spend billions of dollars globally on cybersecurity. Artificial intelligence has emerged as a great solution for building smarter and safer security systems that allow you to predict and detect suspicious network activity, such as phishing or unauthorized intrusions. This cybersecurity book presents and demonstrates popular and successful AI approaches and models that you can adapt to detect potential attacks and protect your corporate systems. You'll learn about the role of machine learning and neural networks, as well as deep

learning in cybersecurity, and you'll also learn how you can infuse AI capabilities into building smart defensive mechanisms. As you advance, you'll be able to apply these strategies across a variety of applications, including spam filters, network intrusion detection, botnet detection, and secure authentication. By the end of this book, you'll be ready to develop intelligent systems that can detect unusual and suspicious patterns and attacks, thereby developing strong network security defenses using AI. What you will learnDetect email threats such as spamming and phishing using AICategorize APT, zero-days,

and polymorphic malware samples
Overcome antivirus limits in threat detection
Predict network intrusions and detect anomalies with machine learning
Verify the strength of biometric authentication procedures with deep learning
Evaluate cybersecurity strategies and learn how you can improve them
Who this book is for
If you're a cybersecurity professional or ethical hacker who wants to build intelligent systems using the power of machine learning and AI, you'll find this book useful. Familiarity with cybersecurity concepts and knowledge of Python programming is essential to get the most out of this book.

Decision Making in Health and Medicine - M. G. Myriam Hunink
2014-10-16

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

Intelligent Infrastructure in Transportation and Management
- Jiten Shah
2021-12-13

This book mainly focuses on the innovations in intelligent transportation infrastructure and management. The content of the book is selected in such a way that it will cover a wide range of areas to integrate advanced technologies and provide best and innovative solution to problems faced by

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the rapidly growing transportation sector. The topics of the book primarily address the needs of the students in civil, electrical, and mechanical engineering. It is equally useful as reference material for innovators, inventors, practitioners, and policymaker for an innovative and classified solution in the field of transportation and infrastructure management. Looking at the global electric and hybrid vehicles market, the book focuses on and discuss recent developments in electric mobility across the globe. In this edition, we try to feature toward an update on the performance and costs of batteries which is

the current demand of the consumers. The book inspires researchers, innovators, industry experts, and policymakers to consider the solutions into the practice.

A Field Guide to Genetic Programming - 2008

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.

The Roman Market Economy -

Peter Temin 2017-09-05

What modern economics can tell us about ancient Rome The quality of life for ordinary Roman citizens at the height of

the Roman Empire probably was better than that of any other large group of people living before the Industrial Revolution. The Roman Market Economy uses the tools of modern economics to show how trade, markets, and the Pax Romana were critical to ancient Rome's prosperity. Peter Temin, one of the world's foremost economic historians, argues that markets dominated the Roman economy. He traces how the Pax Romana encouraged trade around the Mediterranean, and how Roman law promoted commerce and banking. Temin shows that a reasonably vibrant market for wheat extended throughout the

empire, and suggests that the Antonine Plague may have been responsible for turning the stable prices of the early empire into the persistent inflation of the late. He vividly describes how various markets operated in Roman times, from commodities and slaves to the buying and selling of land. Applying modern methods for evaluating economic growth to data culled from historical sources, Temin argues that Roman Italy in the second century was as prosperous as the Dutch Republic in its golden age of the seventeenth century. The Roman Market Economy reveals how economics can help us understand how the

Roman Empire could have ruled seventy million people and endured for centuries.

Desert Olive Oil Cultivation -
Zeev Wiesman 2009-06-24

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

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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

Finances Publiques - 1989

Data Structures & Algorithms in

Kotlin (Second Edition) -

raywenderlich Tutorial Team

2021-06-30

Learn Data Structures &

Algorithms in Kotlin!Data

structures and algorithms are

fundamental tools every

developer should have. In this

book, you'll learn how to

implement key data structures

in Kotlin, and how to use them

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to solve a robust set of algorithms. This book is for intermediate Kotlin or Android developers who already know the basics of the language and want to improve their knowledge. Topics Covered in This Book Introduction to Kotlin: If you're new to Kotlin, you can learn the main constructs and begin writing code. Complexity: When you study algorithms, you need a way to compare their performance in time and space. Learn about the Big-O notation to help you do this. Elementary Data Structures: Learn how to implement Linked List, Stacks, and Queues in Kotlin. Trees: Learn everything you need about Trees - in particular,

Binary Trees, AVL Trees, as well as Binary Search and much more. Sorting Algorithms: Sorting algorithms are critical for any developer. Learn to implement the main sorting algorithms, using the tools provided by Kotlin. Graphs: Have you ever heard of Dijkstra and the calculation of the shortest path between two different points? Learn about Graphs and how to use them to solve the most useful and important algorithms.

[Data Mining and Knowledge Discovery Handbook](#) - Oded Maimon 2006-05-28

Data Mining and Knowledge Discovery Handbook organizes all major concepts, theories,

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methodologies, trends, challenges and applications of data mining (DM) and knowledge discovery in databases (KDD) into a coherent and unified repository. This book first surveys, then provides comprehensive yet concise algorithmic descriptions of methods, including classic methods plus the extensions and novel methods developed recently. This volume concludes with in-depth descriptions of data mining applications in various interdisciplinary industries including finance, marketing, medicine, biology, engineering, telecommunications, software, and security. Data Mining and

Knowledge Discovery Handbook is designed for research scientists and graduate-level students in computer science and engineering. This book is also suitable for professionals in fields such as computing applications, information systems management, and strategic research management.

Introduction to Probability Models - Sheldon M. Ross
2006-12-11

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

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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:

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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
Decomposition Methodology for Knowledge Discovery and Data Mining - Oded Maimon
2005-05-30
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.

Elements of Information Theory

- Thomas M. Cover 2012-11-28

The latest edition of this classic is updated with new problem sets and material The Second Edition of this fundamental textbook maintains the book's tradition of clear, thought-provoking instruction. Readers are provided once again with an instructive mix of mathematics, physics, statistics, and information theory. All the essential topics in information theory are covered in detail, including entropy, data compression, channel capacity,

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rate distortion, network information theory, and hypothesis testing. The authors provide readers with a solid understanding of the underlying theory and applications.

Problem sets and a telegraphic summary at the end of each chapter further assist readers.

The historical notes that follow each chapter recap the main points. The Second Edition

features: * Chapters reorganized to improve teaching

* 200 new problems * New material on source coding,

portfolio theory, and feedback capacity * Updated references

Now current and enhanced, the Second Edition of Elements of Information Theory remains the

ideal textbook for upper-level undergraduate and graduate courses in electrical engineering, statistics, and telecommunications.

Lost Crops of Africa - National Research Council 2008-01-25

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

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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.

Preference, Belief, and Similarity - Amos Tversky
2003-11-21

Amos Tversky (1937–1996), a towering figure in cognitive and mathematical psychology, devoted his professional life to the study of similarity, judgment, and decision making. He had a unique ability to master the

technicalities of normative ideals and then to intuit and demonstrate experimentally their systematic violation due to the vagaries and consequences of human information processing. He created new areas of study and helped transform disciplines as varied as economics, law, medicine, political science, philosophy, and statistics. This book collects forty of Tversky's articles, selected by him in collaboration with the editor during the last months of Tversky's life. It is divided into three sections: Similarity, Judgment, and Preferences. The Preferences section is subdivided into Probabilistic Models of Choice,

Choice under Risk and Uncertainty, and Contingent Preferences. Included are several articles written with his frequent collaborator, Nobel Prize-winning economist Daniel Kahneman.

Recommender Systems Handbook - Francesco Ricci
2015-11-17

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.

Recovering Biblical Manhood and Womanhood (Revised Edition) - John Piper
2021-01-11

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.

Principles of Biomedical Informatics - Ira Kalet 2009

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.

Encyclopedia of Data

Warehousing and Mining -

Wang, John 2005-06-30

Data Warehousing and Mining

(DWM) is the science of

managing and analyzing large

datasets and discovering novel

patterns and in recent years

has emerged as a particularly

exciting and industrially relevant

area of research. Prodigious

amounts of data are now being

generated in domains as

diverse as market research,

functional genomics and

pharmaceuticals; intelligently

analyzing these data, with the

aim of answering crucial

questions and helping make

informed decisions, is the

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challenge that lies ahead. The Encyclopedia of Data Warehousing and Mining provides a comprehensive, critical and descriptive examination of concepts, issues, trends, and challenges in this rapidly expanding field of data warehousing and mining (DWM). This encyclopedia consists of more than 350 contributors from 32 countries, 1,800 terms and definitions, and more than 4,400 references. This authoritative publication offers in-depth coverage of evolutions, theories, methodologies, functionalities, and applications of DWM in such interdisciplinary industries as healthcare informatics,

artificial intelligence, financial modeling, and applied statistics, making it a single source of knowledge and latest discoveries in the field of DWM.

C4.5 - J. Ross Quinlan 1993

This book is a complete guide to the C4.5 system as implemented in C for the UNIX environment. It contains a comprehensive guide to the system's use, the source code (about 8,800 lines), and implementation notes.

Learning from Data - Doug Fisher 1996-05-02

This volume contains a revised collection of papers originally presented at the Fifth International Workshop on Artificial Intelligence and

Statistics in 1995. The topics represented in this volume are diverse, and include natural language application causality and graphical models, classification, learning, knowledge discovery, and exploratory data analysis. The chapters illustrate the rich possibilities for interdisciplinary study at the interface of artificial intelligence and statistics. The chapters vary in the background that they assume, but moderate familiarity with techniques of artificial intelligence and statistics is desirable in most cases.

Data Mining for Design and Manufacturing - D. Braha
2013-03-14

Data Mining for Design and Manufacturing: Methods and Applications is the first book that brings together research and applications for data mining within design and manufacturing. The aim of the book is 1) to clarify the integration of data mining in engineering design and manufacturing, 2) to present a wide range of domains to which data mining can be applied, 3) to demonstrate the essential need for symbiotic collaboration of expertise in design and manufacturing, data mining, and information technology, and 4) to illustrate how to overcome central problems in design and manufacturing environments.

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The book also presents formal tools required to extract valuable information from design and manufacturing data, and facilitates interdisciplinary problem solving for enhanced decision making. Audience: The book is aimed at both academic and practising audiences. It can serve as a reference or textbook for senior or graduate level students in Engineering, Computer, and Management Sciences who are interested in data mining technologies. The book will be useful for practitioners interested in utilizing data mining techniques in design and manufacturing as well as for computer software developers engaged in

developing data mining tools. Soft Computing for Knowledge Discovery and Data Mining - Oded Maimon 2007-10-25 Data Mining is the science and technology of exploring large and complex bodies of data in order to discover useful patterns. It is extremely important because it enables modeling and knowledge extraction from abundant data availability. This book introduces soft computing methods extending the envelope of problems that data mining can solve efficiently. It presents practical soft-computing approaches in data mining and includes various real-world case studies with

detailed results.

**Encyclopedia of Decision
Making and Decision Support
Technologies** - Adam, Frederic
2008-04-30

As effective organizational decision making is a major factor in a company's success, a comprehensive account of current available research on the core concepts of the decision support agenda is in high demand by academicians and professionals. Through 110 authoritative contributions by over 160 of the world's leading experts the Encyclopedia of Decision Making and Decision Support Technologies presents a critical mass of research on the most up-to-date research on

human and computer support of managerial decision making, including discussion on support of operational, tactical, and strategic decisions, human vs. computer system support structure, individual and group decision making, and multi-criteria decision making.

**Principles of Biomedical
Informatics** - Ira J. Kalet, PhD
2013-09-26

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

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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

Distributed Graph Coloring -

Leonid Barenboim 2013-07-01

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.

Pattern Classification - Richard

O. Duda 2012-11-09

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The first edition, published in 1973, has become a classic reference in the field. Now with the second edition, readers will find information on key new topics such as neural networks and statistical pattern recognition, the theory of machine learning, and the theory of invariances. Also included are worked examples, comparisons between different methods, extensive graphics, expanded exercises and computer project topics. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Transportation Planning

Handbook - ITE (Institute of Transportation Engineers)

2016-07-11

A multi-disciplinary approach to transportation

planning fundamentals The Transportation Planning

Handbook is a

comprehensive, practice-oriented reference that presents the

fundamental concepts of

transportation planning

alongside proven techniques.

This new fourth edition is more

strongly focused on serving the

needs of all users, the role of

safety in the planning process,

and transportation planning in

the context of societal

concerns, including the

development of more

sustainable
transportation solutions. The
content structure has been
redesigned with a new format
that promotes a more
functionally driven multimodal
approach to planning, design,
and implementation, including
guidance toward the latest tools
and technology. The material
has been updated to reflect the
latest changes to major
transportation resources such as
the HCM, MUTCD, HSM, and
more, including the most current
ADA accessibility regulations.
Transportation planning has
historically followed the
rational planning model of
defining objectives, identifying
problems, generating and

evaluating alternatives, and
developing plans. Planners are
increasingly expected to adopt
a more multi-disciplinary
approach, especially in light of
the rising importance of
sustainability and environmental
concerns. This book presents
the fundamentals of
transportation planning in
a multidisciplinary context, giving
readers a practical reference
for day-to-day answers. Serve
the needs of all users
Incorporate safety into the
planning process Examine the
latest transportation planning
software packages Get up to
date on the latest standards,
recommendations, and codes
Developed by The Institute of

Transportation Engineers,
this book is the culmination of
over seventy years of
transportation planning solutions,
fully updated to reflect the
needs of a changing society. For
a comprehensive guide with
practical answers, The
Transportation Planning
Handbook is an
essential reference.

**Data Mining With Decision
Trees: Theory And Applications
(2nd Edition) - Maimon Oded Z
2014-09-03**

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

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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:

Start-up Nation - Dan Senor
2011-09-07

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.

Complete Guide to Test Automation - Arnon Axelrod
2018-09-22

Rely on this robust and thorough guide to build and maintain successful test automation. As the software industry shifts from traditional waterfall paradigms into more agile ones, test automation becomes a highly important tool that allows your development teams to deliver software at an ever-increasing pace without compromising quality. Even though it may seem trivial to automate the repetitive tester's

work, using test automation efficiently and properly is not trivial. Many test automation endeavors end up in the "graveyard" of software projects. There are many things that affect the value of test automation, and also its costs. This book aims to cover all of these aspects in great detail so you can make decisions to create the best test automation solution that will not only help your test automation project to succeed, but also allow the entire software project to thrive. One of the most important details that affects the success of the test automation is how easy it is to maintain the automated tests. Complete

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Guide to Test Automation provides a detailed hands-on guide for writing highly maintainable test code. What You'll Learn Know the real value to be expected from test automation Discover the key traits that will make your test automation project succeed Be aware of the different considerations to take into account when planning automated tests vs. manual tests Determine who should implement the tests and the implications of this decision Architect the test project and fit it to the architecture of the tested application Design and implement highly reliable automated tests Begin gaining

value from test automation earlier Integrate test automation into the business processes of the development team Leverage test automation to improve your organization's performance and quality, even without formal authority Understand how different types of automated tests will fit into your testing strategy, including unit testing, load and performance testing, visual testing, and more Who This Book Is For Those involved with software development such as test automation leads, QA managers, test automation developers, and development managers. Some parts of the book assume hands-on

experience in writing code in an object-oriented language (mainly C# or Java), although most of the content is also relevant for nonprogrammers.

Ensemble Learning: Pattern Classification Using Ensemble Methods (Second Edition) - Lior Rokach 2019-02-27

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.

Content-Addressable Memories - Teuvo Kohonen 2012-12-06

Due to continual progress in the large-scale integration of semiconductor circuits, parallel computing principles can

already be met in low-cost systems: numerous examples exist in image processing, for which special hardware 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 hashing 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. 7, 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 Heimbürger, M. Sc. , and Mrs. Leila Koivisto.

Data Mining and Knowledge

Discovery Handbook - Oded

Maimon 2010-09-10

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.