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Notities uit de jungle Vis in een boom De lange weg naar de vrijheid Ver van de boom Wat bomen ons vertellen Summary and Analysis of The Hidden Life of Trees: What They Feel, How They Communicate—Discoveries from a Secret World Graph Analysis and Visualization Het verborgen leven van bomen Tree Roots in the Built Environment Essential Algorithms Dating Buildings and Landscapes with Tree-Ring Analysis Hands-On Machine Learning for Cybersecurity Hands-On Artificial Intelligence with Unreal Engine Understanding Bioinformatics Adaptive Data Compression Principles of Data Mining Cass Turnbull's Guide to Pruning, 2nd Edition Discrete Mathematics with Ducks Machine Learning Algorithms Everyday Data Structures Quantitative Finance Patterns of Data Modeling Technical Safety, Reliability and Resilience Tot in de hemel Sci-tech Book Profiles Professional LINQ Beginning Algorithms CodeNotes for Web-Based UI Mastering Machine Learning with R Decision Analysis for Management Judgment Mastering Predictive Analytics with R Pascal Plus Data Structures, Algorithms, and Advanced Programming Trees for Saltland The Logical Thinking Process Marine Safety

Phylogenetic Supertrees Graph Theory Applications The Bean Trees Exploring Agriscience People, Sheep and Nature Conservation

The Bean Trees Dec 16 2019 "Get your "A" in gear! They're today's most popular study guides-with everything you need to succeed in school. Written by Harvard students for students, since its inception "SparkNotes(TM) has developed a loyal community of dedicated users and become a major education brand. Consumer demand has been so strong that the guides have expanded to over 150 titles. "SparkNotes'(TM) motto is "Smarter, Better, Faster because: - They feature the most current ideas and themes, written by experts. - They're easier to understand, because the same people who use them have also written them. - The clear writing style and edited content enables students to read through the material quickly, saving valuable time. And with everything covered--context; plot overview; character lists; themes, motifs, and symbols; summary and analysis, key facts; study questions and essay topics; and reviews and resources--you don't have to go anywhere else!

Graph Theory Applications Jan 17 2020 The first part of this text covers the main graph theoretic topics: connectivity, trees, traversability, planarity, colouring, covering, matching, digraphs, networks, matrices of a

graph, graph theoretic algorithms, and matroids. These concepts are then applied in the second part to problems in engineering, operations research, and science as well as to an interesting set of miscellaneous problems, thus illustrating their broad applicability. Every effort has been made to present applications that use not merely the notation and terminology of graph theory, but also its actual mathematical results. Some of the applications, such as in molecular evolution, facilities layout, and traffic network design, have never appeared before in book form. Written at an advanced undergraduate to beginning graduate level, this book is suitable for students of mathematics, engineering, operations research, computer science, and physical sciences as well as for researchers and practitioners with an interest in graph theoretic modelling.

Principles of Data Mining Nov 07 2021 This book explains and explores the principal techniques of Data Mining, the automatic extraction of implicit and potentially useful information from data, which is increasingly used in commercial, scientific and other application areas. It focuses on classification, association rule mining and clustering. Each topic is clearly explained, with a focus on algorithms not mathematical formalism, and is illustrated by detailed worked examples. The book is written for readers

without a strong background in mathematics or statistics and any formulae used are explained in detail. It can be used as a textbook to support courses at undergraduate or postgraduate levels in a wide range of subjects including Computer Science, Business Studies, Marketing, Artificial Intelligence, Bioinformatics and Forensic Science. As an aid to self study, this book aims to help general readers develop the necessary understanding of what is inside the 'black box' so they can use commercial data mining packages discriminatingly, as well as enabling advanced readers or academic researchers to understand or contribute to future technical advances in the field. Each chapter has practical exercises to enable readers to check their progress. A full glossary of technical terms used is included. This expanded third edition includes detailed descriptions of algorithms for classifying streaming data, both stationary data, where the underlying model is fixed, and data that is time-dependent, where the underlying model changes from time to time - a phenomenon known as concept drift.

Everyday Data Structures Jul 03 2021 A practical guide to learning data structures simply and easily
About This Book This book is a very practical, friendly, and useful guide that will help you analyze problems and choose the right data structures for your solution

Learn to recognize data patterns for determining which structures apply to a given problem Explore the unique rules or "gotchas" that will help you become an excellent programmer Who This Book Is For If you're self-taught programmers in any language who wants to gain a solid understanding of data structures and how to use them to solve real-world problems in your day-to-day development work, then this book is for you. What You Will Learn A rapid overview of data types, applications for each type, best practices and high-level variations between platforms Review the most common data structures and build working examples in the languages used for mobile platform software development Understand advanced data structure concepts such as generic collections, searching and sorting algorithms, and recursion Learn to use Stacks (LIFO) and queues (FIFO) in your daily application Add/remove objects and nest arrays and dictionaries within another dictionary and understand why such architecture is often preferred or necessary Get acquainted with the tree structures such as heap, binary, and graphs, apply them to work Unleash the power of different sorting techniques such as bubble sort, quick sort, merge sort, insertion sort, and radix sort Perform searching operations on arrays, heaps, graphs, and binary trees in different languages In Detail If you want to learn different data structures and

their real-world applications quickly through practical examples, then *Everyday Data Structures* is for you. This book can introduce you to new data structures and their potential applications through examples in languages common to mobile software development on the most popular platforms. The examples are presented with real-world concepts using language that everyone will understand. This book is logically divided into two parts; the first one covers the basic data structures that are built into most languages such as Objective-C, C#, Java, and Swift. It will cover detailed analysis of the common data structures such as arrays, lists, stacks, Queues, and heaps, typical applications, and specific concerns for each language. Each chapter will provide in-depth examples in several popular languages based on real-world applications. The second part will cover more advanced data structures such as generic collections, sorting, searching, and recursion and ways to use those structures in everyday applications. Style and approach This is a practical, result-focused guide, which is easy to follow, but also fast-paced and really satisfying with full of examples.

Summary and Analysis of The Hidden Life of Trees: What They Feel, How They Communicate—Discoveries from a Secret World

Sep 17 2022 So much to read, so little time? This brief overview of *The Hidden Life of Trees* tells you what you

need to know—before or after you read Peter Wohlleben’s book. Crafted and edited with care, Worth Books set the standard for quality and give you the tools you need to be a well-informed reader. This short summary and analysis of *The Hidden Life of Trees* includes:

- Historical context
- Chapter-by-chapter overviews
- Profiles of the main characters
- Important quotes
- Fascinating trivia
- Glossary of terms
- Supporting material to enhance your understanding of the original work

About *The Hidden Life of Trees* by Peter Wohlleben: *The Hidden Life of Trees* explains the astonishing ways trees interact with each other and respond to their environment. It details how they communicate via underground fungal networks, provide sugar to help trees that are stressed, warn each other of insect or fungal attacks, and coordinate their growth and reproduction. The author also describes how forestry methods can be improved to work with this complex inter-tree network to allow for healthier trees. Naturalist Peter Wohlleben puts into context the invaluable role forests play in sequestering carbon, talks about the contribution that large, old trees can play in battling climate change, and how caring for woodlands is vital to all life on earth. The summary and analysis in this ebook are intended to complement your reading experience and bring you closer to a great work of nonfiction.

Professional LINQ Dec 28 2020 Professional LINQ introduces experienced programmers and database developers to LINQ database queries in their native VB and C# languages. Some of the topics covered include: LINQ Queries LINQ and the Standard Query Operators Programming with XQuery Querying XML with XQuery Mixing XML and other data models DQuery and Queries LINQ over datasets Interoperating with ADO.NET LINQ and ASP.NET

Essential Algorithms May 13 2022 A friendly introduction to the most useful algorithms written in simple, intuitive English The revised and updated second edition of *Essential Algorithms*, offers an accessible introduction to computer algorithms. The book contains a description of important classical algorithms and explains when each is appropriate. The author shows how to analyze algorithms in order to understand their behavior and teaches techniques that can be used to create new algorithms to meet future needs. The text includes useful algorithms such as: methods for manipulating common data structures, advanced data structures, network algorithms, and numerical algorithms. It also offers a variety of general problem-solving techniques. In addition to describing algorithms and approaches, the author offers details on how to analyze the performance of algorithms. The book is filled with exercises that can be used to explore

ways to modify the algorithms in order to apply them to new situations. This updated edition of Essential Algorithms: Contains explanations of algorithms in simple terms, rather than complicated math Steps through powerful algorithms that can be used to solve difficult programming problems Helps prepare for programming job interviews that typically include algorithmic questions Offers methods can be applied to any programming language Includes exercises and solutions useful to both professionals and students Provides code examples updated and written in Python and C# Essential Algorithms has been updated and revised and offers professionals and students a hands-on guide to analyzing algorithms as well as the techniques and applications. The book also includes a collection of questions that may appear in a job interview. The book's website will include reference implementations in Python and C# (which can be easily applied to Java and C++).

Graph Analysis and Visualization Aug 16 2022 Wring more out of the data with a scientific approach to analysis Graph Analysis and Visualization brings graph theory out of the lab and into the real world. Using sophisticated methods and tools that span analysis functions, this guide shows you how to exploit graph and network analytic techniques to enable the discovery of new business insights and

opportunities. Published in full color, the book describes the process of creating powerful visualizations using a rich and engaging set of examples from sports, finance, marketing, security, social media, and more. You will find practical guidance toward pattern identification and using various data sources, including Big Data, plus clear instruction on the use of software and programming. The companion website offers data sets, full code examples in Python, and links to all the tools covered in the book. Science has already reaped the benefit of network and graph theory, which has powered breakthroughs in physics, economics, genetics, and more. This book brings those proven techniques into the world of business, finance, strategy, and design, helping to extract more information from data and better communicate the results to decision-makers. Study graphical examples of networks using clear and insightful visualizations. Analyze specifically-curated, easy-to-use data sets from various industries. Learn the software tools and programming languages that extract insights from data. Code examples using the popular Python programming language. There is a tremendous body of scientific work on network and graph theory, but very little of it directly applies to analyst functions outside of the core sciences – until now. Written for those seeking empirically based, systematic analysis methods and

powerful tools that apply outside the lab, Graph Analysis and Visualization is a thorough, authoritative resource.

Wat bomen ons vertellen Oct 18 2022 Als je wilt weten hoe oud een boom is, moet je zijn ringen tellen. Maar die jaarringen kunnen je veel meer vertellen dan dat. Dendrochronologie, de wetenschappelijke studie van jaarringen, levert een niet te onderschatten bijdrage aan ons begrip van de klimaatgeschiedenis van de aarde, de invloed ervan op de menselijke beschavingen in de afgelopen tweeduizend jaar en de complexe interactie tussen mens en natuur. In dit meeslepende boek neemt topwetenschapper Valerie Trouet je mee op een reis rond de aarde, van haar lab in Arizona tot afgelegen dorpen in Afrika en radioactieve bossen in Rusland. Aan de hand van verrassende verhalen - zoals hoe zonnevlekken piraten beïnvloeden, het geheim achter het imperium van Dzjengis Khan, het verband tussen de Egyptische farao's en vulkanen, ja zelfs de rol van olijven in de val van het Romeinse Rijk - laat ze zien hoe de studie van bomen ons ontzettend veel kan leren over de mens, zijn geschiedenis en zijn toekomst. 'Ik ben een dendroklimatoloog. Aan de hand van jaarringen bestudeer ik het klimaat uit het verleden en de invloed ervan op ecosystemen en samenlevingen. In dit boek wil ik ook de verhalen van mijn collega-dendrochronologen meenemen en tonen hoe de

dendrochronologie zich vanuit haar nederige begin heeft ontwikkeld tot een van de belangrijkste instrumenten om de complexe interacties tussen bossen, mensen en het klimaat te bestuderen. De rode draad in dit boek is de geschiedenis van houtgebruik en ontbossing, die dendrochronologen in staat heeft gesteld het verleden te bestuderen en een bijdrage te leveren aan de leefbaarheid van onze planeet in de toekomst. De reis verloopt via allerlei omwegen en zit vol verrassingen. Ik spreek over houtcellen die kleiner zijn dan de diameter van een mensenhaar en over straalstromen die op dezelfde hoogte als vliegtuigen over het hele noordelijk halfrond razen. Ik verbind die twee met elkaar door middel van verhalen over piraten, marsmannetjes, samoeraikrijgers en Dzjengis Khan. Kortom: ik vertel jaarringverhalen die mij fascineren. Waarom? Omdat ik denk dat er behoefte aan is in het huidige klimaat van wantrouwen en onverschilligheid jegens wetenschappelijke ontwikkelingen. Ik hoop dat u in het beste geval een kleine tinteling van opwinding voelt wanneer u iets nieuws opsteekt uit dit boek. Het is dezelfde tinteling die ons wetenschappers prikkelt om door te gaan met ons werk.' Winnaar Jan Wolkers Prijs 2020 voor het beste Nederlandstalige natuurboek

Adaptive Data Compression Dec 08 2021 Following an exchange of correspondence, I met Ross in Adelaide

in June 1988. I was approached by the University of Adelaide about being an external examiner for this dissertation and willingly agreed. Upon receiving a copy of this work, what struck me most was the scholarship with which Ross approaches and advances this relatively new field of adaptive data compression. This scholarship, coupled with the ability to express himself clearly using figures, tables, and incisive prose, demanded that Ross's dissertation be given a wider audience. And so this thesis was brought to the attention of Kluwer. The modern data compression paradigm furthered by this work is based upon the separation of adaptive context modelling, adaptive statistics, and arithmetic coding. This work offers the most complete bibliography on this subject I am aware of. It provides an excellent and lucid review of the field, and should be equally as beneficial to newcomers as to those of us already in the field.

The Logical Thinking Process Apr 19 2020 A major rewrite of Dettmer's classic Goldratt's Theory of Constraints, this new edition presents a whole new approach to building and applying logic trees. The logical thinking process referred to in the title is nothing less than a broadly applicable, systems-level approach to policy analysis. Dettmer has streamlined the process of constructing the logic trees while simultaneously ensuring that the results are more

logically sound and closer representations of reality than ever before. He explains an easier, more logically sound way to integrate Current Reality Trees with Evaporating Clouds. His new version of the thinking process "retires" the Transition Tree in favor of the marriage of a more detailed Prerequisite Tree and critical chain project management. This book contains new examples of logic trees from a variety of real-world applications. Most of the diagrams and illustrations are new and improved. Explanations and procedures for constructing the logic trees are considerably simplified.

Trees for Saltland May 21 2020 This book aims to assist in the management of soil salinity by describing a range of species tolerant of saline soils. 60 species are listed with descriptions containing botanical features, growth characteristics, preferred soils, climates and more. The introductory sections of this book provide general information on issues such as how trees deal with saline soil, their susceptibility to insect pests, where to plant trees and how best to establish them. The main section provides detailed descriptions of 30 species for use on salt-affected land.

Beginning Algorithms Nov 26 2020 Beginning Algorithms A good understanding of algorithms, and the knowledge of when to apply them, is crucial to producing software that not only works correctly, but

also performs efficiently. This is the only book to impart all this essential information—from the basics of algorithms, data structures, and performance characteristics to the specific algorithms used in development and programming tasks. Packed with detailed explanations and instructive examples, the book begins by offering you some fundamental data structures and then goes on to explain various sorting algorithms. You'll then learn efficient practices for storing and searching by way of hashing, trees, sets, and maps. The authors also share tips on optimization techniques and ways to avoid common performance pitfalls. In the end, you'll be prepared to build the algorithms and data structures most commonly encountered in day-to-day software development. What you will learn from this book

- The basics of algorithms, such as iteration and recursion
- Elementary data structures such as lists, stacks, and queues
- Basic and advanced sorting algorithms including insertion sort, quicksort, and shell sort
- Advanced data structures such as binary trees, ternary trees, and heaps
- Algorithms for string searching, string matching, hashing, and computational geometry
- How to use test-driven development techniques to ensure your code works as intended
- How to dramatically improve the performance of your code with hands-on techniques for profiling and optimization

Who this book

is for This book is for anyone who develops applications, or is just beginning to do so, and is looking to understand algorithms and data structures. An understanding of computer programming is beneficial. Wrox Beginning guides are crafted to make learning programming languages and technologies easier than you think, providing a structured, tutorial format that will guide you through all the techniques involved.

Pascal Plus Data Structures, Algorithms, and Advanced Programming Jun 21 2020

Exploring Agriscience Nov 14 2019 Discover the exciting world of agriculture through EXPLORING AGRISCIENCE, Fifth Edition, the resource that continues to inspire and inform middle school students across the nation. The new, updated Fifth Edition of this respected text combines a strong grounding in fundamentals with information on the latest advances in the field and current opportunities in agricultural education programs, such as the national FFA organization. This comprehensive guide will open your eyes to all agriscience has to offer, including soil, plants, and row crops; floriculture, forest science, and landscaping; livestock, dairy, and poultry industries; aquaculture and companion animals; hand tools; small engine operation; and more. In addition, information on topics such as organic agriculture, biofuels, and biotechnology—and an all-new chapter on urban

agriculture—introduces you to the trends and developments shaping the industry today, as well as promising initiatives for the future. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

CodeNotes for Web-Based UI Oct 26 2020

CodeNotes provides the most succinct, accurate, and speedy way for a developer to ramp up on a new technology or language. Unlike other programming books, CodeNotes drills down to the core aspects of a technology, focusing on the key elements needed in order to understand it quickly and implement it immediately. It is a unique resource for developers, filling the gap between comprehensive manuals and pocket references. CodeNotes for Web-Based UI shows how to build sophisticated, high-performance UIs for web-based applications using technologies such as JavaScript, DHTML, and CSS as well as XML and XSLT. It also details how to leverage technology and solve common web-based presentation and manipulation problems. Web designers and programmers will both develop a better understanding of common web-based design challenges, and discover some common approaches to solving these problems. This edition of CodeNotes includes: -A global overview of a technology and explanation of what problems it can be used to

solve -Real-world examples -"How and Why" and "Design Notes" sections that provide hints, tricks, workarounds, and tips on what should be taken advantage of or avoided -Instructions and classroom-style tutorials throughout from expert trainers and software developers Visit www.codenotes.com for updates, source code templates, access to message boards, and discussion of specific problems with CodeNotes authors and other developers. Every CodeNotes title is written and reviewed by a team of commercial software developers and technology experts. See "About the Authors" at the beginning of the book for more information.

Technical Safety, Reliability and Resilience Mar 31 2021 This book provides basics and selected advanced insights on how to generate reliability, safety and resilience within (socio) technical system developments. The focus is on working definitions, fundamental development processes, safety development processes and analytical methods on how to support such schemes. The method families of Hazard Analyses, Failure Modes and Effects Analysis and Fault Tree Analysis are explained in detail. Further main topics include semiformal graphical system modelling, requirements types, hazard log, reliability prediction standards, techniques and measures for reliable hardware and software with respect to

systematic and statistical errors, and combination options of methods. The book is based on methods as applied during numerous applied research and development projects and the support and auditing of such projects, including highly safety-critical automated and autonomous systems. Numerous questions and answers challenge students and practitioners.

Patterns of Data Modeling May 01 2021 Best-selling author and database expert with more than 25 years of experience modeling application and enterprise data, Dr. Michael Blaha provides tried and tested data model patterns, to help readers avoid common modeling mistakes and unnecessary frustration on their way to building effective data models. Unlike the typical methodology book, *Patterns of Data Modeling* provides advanced techniques for those who have mastered the basics. Recognizing that database representation sets the path for software, determines its flexibility, affects its quality, and influences whether it succeeds or fails, the text focuses on databases rather than programming. It is one of the first books to apply the popular patterns perspective to database systems and data models. It offers practical advice on the core aspects of applications and provides authoritative coverage of mathematical templates, antipatterns, archetypes, identity, canonical models,

and relational database design.

De lange weg naar de vrijheid Dec 20 2022 De lange weg naar de vrijheid is de beroemde autobiografie van een van de grootste mannen van de twintigste eeuw. Nelson Mandela beschrijft de lange weg die hij heeft moeten afleggen van onwetende jongen tot charismatisch staatsman. Dit is het verhaal van misschien wel de wonderbaarlijkste omwenteling in de geschiedenis, verteld door de man die het allemaal heeft meegemaakt en in gang gezet. Het verhaal van Mandela, door Mandela.

Het verborgen leven van bomen Jul 15 2022 In het bos gebeuren verbazingwekkende dingen: bomen communiceren met elkaar. Bomen die niet alleen liefdevol voor hun nageslacht zorgen, maar ook voor hun oude en zieke buren. Bomen met emoties, gevoelens en een geheugen. Moeilijk te geloven? Misschien, maar het is waar! Boswachter Peter Wohlleben vertelt fascinerende verhalen over de onverwachte en ongelooflijke vaardigheden van bomen. Hij combineert de laatste wetenschappelijke inzichten met zijn eigen ervaringen uit het bos, en creëert zo een opwindende nieuwe kennismaking met levende wezens die we dachten te kennen, maar nu pas echt leren begrijpen. En zo betreden we een compleet nieuwe wereld... Het geheime leven van bomen is een onweerstaanbare liefdesverklaring aan

het bos.

Mastering Machine Learning with R Sep 24 2020

Machine learning is a field of AI where we build systems that learn from data. This book explains complicated concepts with real-world applications. It demonstrates the power of R and machine learning extensively while highlighting the constraints. Finally, it will walk you through topics such as text analysis, time series, and deep learning.

Tree Roots in the Built Environment Jun 14 2022 This publication sets out a comprehensive review of tree root biology and covers a broad range of practical issues that need to be considered in order to grow trees successfully in our towns and cities and to realise the significant benefits they provide in built environments. Topics covered include: soil condition and roots; improving tree root growth in urban soils; water supply and drought amelioration for amenity trees; coping with soil contamination; protecting trees during excavation and good trenching practice; control of damage to tree roots on construction sites; tree root damage to buildings and pavements, sewers, drains and pipes; research needs and sustainability issues.

Cass Turnbull's Guide to Pruning, 2nd Edition Oct 06 2021 Nothing about pruning is obvious; in fact, most of it is downright counterintuitive, says expert Cass Turnbull. This second edition of her definitive

illustrated guide adds 40 percent new material, with more coverage of different kinds of trees, shrubs, and ground covers and how to prune them for health and aesthetics. The book is organized around the most common types of plants found in Northwest gardens: evergreen and deciduous shrubs; bamboos and tea roses; rhododendrons, camellia and other tree-like shrubs; hedge plants like boxwood and heather; clematis, wisteria and all those vines; and detailed information on trees by species from dogwoods to weeping cherries. In her trademark witty style, Turnbull also addresses tools, landscape renovation, and design errors. Included too are her amusing Ten Commandments for gardeners, which feature such treasures as "Thou shalt not weed-whip the trunk of thy tree, nor bash it with thine mower, nor leave anything tied on thy tree or the branches of thy tree, as is done in the land of the philistines."

Sci-tech Book Profiles Jan 29 2021 Includes title page, table of contents, list of contributors, preface and all indexes of each book.

Ver van de boom Nov 19 2022 Ver van de boom is een YA-roman over familie van Robin Benway. Winnaar van de National Book Award 2017 voor jeugdliteratuur. Wanneer de geadopteerde Grace op zoek gaat naar haar biologische moeder, ontdekt ze dat ze nog een zus en een broer heeft. Haar zus Maya lijkt het prima

voor elkaar te hebben in haar adoptiegezin, maar broer Joaquin is nog altijd op zoek naar een familie die hem wil hebben. Alle drie worstelen ze met de vraag: wat bepaalt wie je bent?

Understanding Bioinformatics Jan 09 2022 Suitable for advanced undergraduates & postgraduates, this book provides a definitive guide to bioinformatics. It takes a conceptual approach & guides the reader from first principles through to an understanding of the computational techniques & the key algorithms.

Vis in een boom Jan 21 2023 Een ontroerend en bekroond feel good verhaal voor ieder mens dat wel eens het gevoel heeft buiten de boot te vallen of anders te zijn. 'Iedereen is goed in iets, op zijn eigen manier. Maar als je een vis in een boom laat klimmen en hem daarop beoordeelt, zal hij zijn hele leven denken dat hij dom is.' - Albert Einstein Ally is slim. Slim genoeg om iedereen voor de gek te houden. In welke klas ze ook terechtkomt, ze is kampioen in het voorkomen dat iemand haar geheim ontdekt. Ze kan namelijk niet lezen. Maar dan krijgt ze een nieuwe meester. Hij begrijpt dat er achter Ally's stoerheid een ander meisje zit. Een meisje dat helemaal niet dom is, maar dyslectisch. Voor Ally vallen alle puzzelstukjes langzaam op hun plaats. Haar zelfvertrouwen groeit en er gaat een wereld voor haar open.

Dating Buildings and Landscapes with Tree-Ring

Analysis Apr 12 2022 This book presents guidance, theory, methodologies, and case studies for analyzing tree rings to accurately date and interpret historic buildings and landscapes. Written by two long-time practitioners in the field of dendrochronology, the research is grounded in the fieldwork data of approximately 200 structures and landscapes. By scientifically analyzing the tree rings of historic timbers, preservationists can obtain valuable information about construction dates, interpret the evolution of landscapes and buildings over time, identify species and provenance, and gain insight into the species matrix of local forests. Authors Darrin L. Rubino and Christopher Baas demonstrate, through full-color illustrated case studies and methodologies, how this information can be used to interpret the history of buildings and landscapes and assist preservation decision-making. Over 1,000 samples obtained from more than 40 buildings, including high style houses, vernacular log houses, and timber frame barns, are reported. This book will be particularly relevant for students, instructors, and professional readers interested in historic preservation, cultural landscapes, museum studies, archaeology, and dendrochronology globally.

Hands-On Machine Learning for Cybersecurity Mar 11 2022 Get into the world of smart data security using

machine learning algorithms and Python libraries
Key Features
Learn machine learning algorithms and cybersecurity fundamentals
Automate your daily workflow by applying use cases to many facets of security
Implement smart machine learning solutions to detect various cybersecurity problems
Book Description
Cyber threats today are one of the costliest losses that an organization can face. In this book, we use the most efficient tool to solve the big problems that exist in the cybersecurity domain. The book begins by giving you the basics of ML in cybersecurity using Python and its libraries. You will explore various ML domains (such as time series analysis and ensemble modeling) to get your foundations right. You will implement various examples such as building system to identify malicious URLs, and building a program to detect fraudulent emails and spam. Later, you will learn how to make effective use of K-means algorithm to develop a solution to detect and alert you to any malicious activity in the network. Also learn how to implement biometrics and fingerprint to validate whether the user is a legitimate user or not. Finally, you will see how we change the game with TensorFlow and learn how deep learning is effective for creating models and training systems
What you will learn
Use machine learning algorithms with complex datasets to implement cybersecurity concepts
Implement machine learning

algorithms such as clustering, k-means, and Naive Bayes to solve real-world problems
Learn to speed up a system using Python libraries with NumPy, Scikit-learn, and CUDA
Understand how to combat malware, detect spam, and fight financial fraud to mitigate cyber crimes
Use TensorFlow in the cybersecurity domain and implement real-world examples
Learn how machine learning and Python can be used in complex cyber issues
Who this book is for This book is for the data scientists, machine learning developers, security researchers, and anyone keen to apply machine learning to up-skill computer security. Having some working knowledge of Python and being familiar with the basics of machine learning and cybersecurity fundamentals will help to get the most out of the book

Mastering Predictive Analytics with R Jul 23 2020 R offers a free and open source environment that is perfect for both learning and deploying predictive modeling solutions in the real world. With its constantly growing community and plethora of packages, R offers the functionality to deal with a truly vast array of problems. This book is designed to be both a guide and a reference for moving beyond the basics of predictive modeling. The book begins with a dedicated chapter on the language of models and the predictive modeling process. Each subsequent chapter tackles a particular type of model, such as neural networks, and focuses on

the three important questions of how the model works, how to use R to train it, and how to measure and assess its performance using real world data sets. By the end of this book, you will have explored and tested the most popular modeling techniques in use on real world data sets and mastered a diverse range of techniques in predictive analytics.

Quantitative Finance Jun 02 2021 Teach Your Students How to Become Successful Working

QuantsQuantitative Finance: A Simulation-Based Introduction Using Excel provides an introduction to financial mathematics for students in applied mathematics, financial engineering, actuarial science, and business administration. The text not only enables students to practice with the basic techn

Tot in de hemel Feb 27 2021 'Tot in de hemel' van Richard Powers is het verhaal van negen mensen die de wereld van de bomen leren zien - en horen. Een laadmeester bij de Amerikaanse luchtmacht die tijdens de Vietnamoorlog gered wordt door een bodhiboom, een verguisde wetenschapster die bomen met elkaar hoort communiceren, een kunstenaar met een bijzondere verzameling foto's van een bedreigde kastanjesoort: deze drie, en nog zes anderen, allen onbekenden van elkaar, zullen op verschillende manieren betrokken raken bij een laatste, heftige verzetsdaad om de resterende paar hectare oerwoud

van het Noord-Amerikaanse continent van de ondergang te redden. 'Tot in de hemel' is Powers ten voeten uit: een verrassende fusie van natuurwetenschap en literatuur, een monumentale roman over bomen en mensen. Het is een meeslepende vertelling over activisme en verzet, en tegelijkertijd een loflied op een wereld naast de onze.

Hands-On Artificial Intelligence with Unreal Engine Feb 10 2022 Learn to build intelligent and responsive Non-Player Characters for your games with Unreal Engine Game AI. Key Features Understand the built-in AI systems in Unreal Engine for building intelligent games Leverage the power of Unreal Engine 4 programming to create game AI that focuses on motion, animation, and tactics Learn to profile, visualize, and debug your Game AI for checking logic and optimizing performance Book Description Learning how to apply artificial intelligence (AI) is crucial and can take the fun factor to the next level, whether you're developing a traditional, educational, or any other kind of game. If you want to use AI to extend the life of your games and make them challenging and more interesting, this book is for you. The book starts by breaking down AI into simple concepts to get a fundamental understanding of it. Using a variety of examples, you will work through actual implementations designed to highlight key concepts

and features related to game AI in UE4. You will learn to work through the built-in AI framework in order to build believable characters for every game genre (including RPG, Strategic, Platform, FPS, Simulation, Arcade, and Educational). You will learn to configure the Navigation, Environmental Querying, and Perception systems for your AI agents and couple these with Behavior Trees, all accompanied with practical examples. You will also explore how the engine handles dynamic crowds. In the concluding chapters, you will learn how to profile, visualize, and debug your AI systems to correct the AI logic and increase performance. By the end of the book, your AI knowledge of the built-in AI system in Unreal will be deep and comprehensive, allowing you to build powerful AI agents within your projects. What you will learn

Get an in-depth knowledge about all the AI Systems within Unreal Engine
Create complex AIs, understanding the art of designing and developing Behavior Tree
Learn how to perform Environmental Queries (EQS)
Master the Navigation, Perception, and Crowd Systems
Profile and Visualize the AI Systems with powerful debugging tools
Extend every AI and Debug system with custom nodes and functions

Who this book is for
Hands-On Artificial Intelligence with Unreal Engine is for you if you are a game developer with a bit experience in Unreal Engine, and now want

to understand and implement believable game AI within Unreal Engine. The book will be both in Blueprint and C++, allowing people from every background to enjoy the book. Whether you're looking to build your first game or expand your knowledge to the edge as a Game AI Programmer, you will find plenty of exciting information and examples of game AI in terms of concepts and implementation, including how to extend some of these systems.

People, Sheep and Nature Conservation Oct 14 2019 With almost half a million people and more than six times as many sheep, Tasmania has a rich history of wool production. In the drier parts of the island, graziers raise sheep partly using the native vegetation on their extensive runs. **People, Sheep and Nature Conservation** explores this use of the run country and the interaction of graziers, sheep and nature. Other topics covered include how graziers manage the runs for profit, how they feel about nature and manage their properties for conservation, how sheep interact with native animals and plants on the runs, and the implications of the ongoing loss of run country to clearance and inundation. In an unusual combination of history, geography, social science, ecological science and policy analysis, this entertaining and well-illustrated book uses the vivid words of the graziers, historical sources and the results of contemporary

research to provide some insight into these issues. Although a Tasmanian story, it will resonate more widely, as the integration of production and nature conservation within complex societies, cultures and economies is an outcome desired on a global scale.

Notities uit de jungle Feb 22 2023 In 1950 vindt Norton Perina tijdens een antropologische expeditie naar een afgelegen eiland in Micronesië de verloren gewaande primitieve stam waarnaar hij op zoek was. Bovendien ontdekt hij er in de buurt een groep mensen die in bomen wonen. Ze blijken van een ongelooflijke ouderdom te zijn en in toenemende mate seniel. Omdat hij de kans op eeuwig leven niet wil missen, doodt hij een van de schildpadden, wier vlees de bron tot lang leven lijkt te zijn, en neemt die mee naar Amerika. Zijn onderzoek maakt Perina wereldberoemd en levert hem zelfs een Nobelprijs op. Maar het komt hem duur te staan. Al snel verliest hij controle over zijn eigen leven, met desastreuze gevolgen. Een pupil redigeert deze autobiografie van Perina. In poëtische taal tovert hij een sprookjeseiland vol gruwelijke belevissen. Dat hij een onbetrouwbare verteller is maakt het spannend tot de laatste bladzijde.

'Fascinerende, wonderbaarlijke en schokkende roman met veel oog voor detail.' Paul Theroux 'Een ware triomf.' Press Association 'Beangstigend vreemd maar uiterst overtuigend.' Sarah Waters 'Een meeslepde,

intelligente en compromisloze roman die misleidt en verontrust.' The Independent

Decision Analysis for Management Judgment Aug 24 2020 *Decision Analysis for Management Judgment* is unique in its breadth of coverage of decision analysis methods. It covers both the psychological problems that are associated with unaided managerial decision making and the decision analysis methods designed to overcome them. It is presented and explained in a clear, straightforward manner without using mathematical notation. This latest edition has been fully revised and updated and includes a number of changes to reflect the latest developments in the field.

Discrete Mathematics with Ducks Sep 05 2021 *Discrete Mathematics with Ducks, Second Edition* is a gentle introduction for students who find the proofs and abstractions of mathematics challenging. At the same time, it provides stimulating material that instructors can use for more advanced students. The first edition was widely well received, with its whimsical writing style and numerous exercises and materials that engaged students at all levels. The new, expanded edition continues to facilitate effective and active learning. It is designed to help students learn about discrete mathematics through problem-based activities. These are created to inspire students to understand mathematics by actively practicing and

doing, which helps students better retain what they've learned. As such, each chapter contains a mixture of discovery-based activities, projects, expository text, in-class exercises, and homework problems. The author's lively and friendly writing style is appealing to both instructors and students alike and encourages readers to learn. The book's light-hearted approach to the subject is a guiding principle and helps students learn mathematical abstraction. Features: The book's Try This! sections encourage students to construct components of discussed concepts, theorems, and proofs Provided sets of discovery problems and illustrative examples reinforce learning Bonus sections can be used by instructors as part of their regular curriculum, for projects, or for further study

Machine Learning Algorithms Aug 04 2021

Machine learning explores the study and construction of algorithms that can learn from and make predictions on data. This book will act as an entry point for anyone who wants to make a career in Machine Learning. It covers algorithms like Linear regression, Logistic Regression, SVM, Naïve Bayes, K-Means, Random Forest, and Feature engineering.

Marine Safety Mar 19 2020 Marine Safety provides a toolbox of field-tested and proven tools for assessing and managing marine risks and making better-informed decisions to prevent marine casualties. Using

this book as a guide, managers in the marine industry learn to apply 12 common risk-based decision-making tools that help them make practical and technically-defensible decisions for managing port and waterway operations, conducting inspections, and preparing and responding to accidents. The authors thoroughly examine the 12 tools and include discussions on each tool's concepts, limitations, common uses, procedures, terminology, and applications to marine safety in a clearly outlined, user-friendly format. *Marine Safety* examines such tools as Pareto Analysis, Checklist Analysis, Relative Ranking/Risk Indexing, Change Analysis, What-if Analysis, Hazard and Operability, Fault Tree Analysis, and Event and Causal Factor Charting. In addition, *Marine Safety* examines key factors for choosing risk assessment methods and suggests risk assessment approaches to support different types of decision making, depending on each situation. Examples of common marine-oriented situations, illustrative charts, graphs, and diagrams are included for easy understanding.

Phylogenetic Supertrees Feb 16 2020 This is the first book on "phylogenetic supertrees", a recent, but controversial development for inferring evolutionary trees. Rather than analyze the combined primary character data directly, supertree construction proceeds by combining the tree topologies derived

from those data. This difference in strategy has allowed for the exciting possibility of larger, more complete phylogenies than are otherwise currently possible, with the potential to revolutionize evolutionarily-based research. This book provides a comprehensive look at supertrees, ranging from the methods used to build supertrees to the significance of supertrees to bioinformatic and biological research. Reviews of many of the major supertree methods are provided and four new techniques, including a Bayesian implementation of supertrees, are described for the first time. The far-reaching impact of supertrees on biological research is highlighted both in general terms and through specific examples from diverse clades such as flowering plants, even-toed ungulates, and primates. The book also critically examines the many outstanding challenges and problem areas for this relatively new field, showing the way for supertree construction in the age of genomics. Interdisciplinary contributions from the majority of the leading authorities on supertree construction in all areas of the bioinformatic community (biology, computer sciences, and mathematics) will ensure that this book is a valuable reference with wide appeal to anyone interested in phylogenetic inference.

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