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KEY=MANUAL - JONATHAN MILES

PRACTICAL GUIDE TO PRINCIPAL COMPONENT METHODS IN R

PCA, M(CA), FAMD, MFA, HCPC, FACTOEXTRA

STHDA *Although there are several good books on principal component methods (PCMs) and related topics, we felt that many of them are either too theoretical or too advanced. This book provides a solid practical guidance to summarize, visualize and interpret the most important information in a large multivariate data sets, using principal component methods in R. The visualization is based on the factoextra R package that we developed for creating easily beautiful ggplot2-based graphs from the output of PCMs. This book contains 4 parts. Part I provides a quick introduction to R and presents the key features of FactoMineR and factoextra. Part II describes classical principal component methods to analyze data sets containing, predominantly, either continuous or categorical variables. These methods include: Principal Component Analysis (PCA, for continuous variables), simple correspondence analysis (CA, for large contingency tables formed by two categorical variables) and Multiple CA (MCA, for a data set with more than 2 categorical variables). In Part III, you'll learn advanced methods for analyzing a data set containing a mix of variables (continuous and categorical) structured or not into groups: Factor Analysis of Mixed Data (FAMD) and Multiple Factor Analysis (MFA). Part IV covers hierarchical clustering on principal components (HCPC), which is useful for performing clustering with a data set containing only categorical variables or with a mixed data of categorical and continuous variables.*

PRO GIT

Apress *Git is the version control system developed by Linus Torvalds for Linux kernel development. It took the open source world by storm since its inception in 2005, and is used by small development shops and giants like Google, Red Hat, and IBM, and of course many open source projects. A book by Git experts to turn you into a Git expert Introduces the world of distributed version control Shows how to build a Git development workflow*

OPEN VERIFICATION METHODOLOGY COOKBOOK

Springer Science & Business Media *Functional verification is an art as much as a science. It requires not only creativity and cunning, but also a clear methodology to approach the problem. The Open Verification Methodology (OVM) is a leading-edge methodology for verifying designs at multiple levels of abstraction. It brings together ideas from electrical, systems, and software engineering to provide a complete methodology for verifying large scale System-on-Chip (SoC) designs. OVM defines an approach for developing testbench architectures so they are modular, configurable, and reusable. This book is designed to help both novice and experienced verification engineers master the OVM through extensive examples. It describes basic verification principles and explains the essentials of transaction-level modeling (TLM). It leads readers from a simple connection of a producer and a consumer through complete self-checking testbenches. It explains construction techniques for building configurable, reusable testbench components and how to use TLM to communicate between them. Elements such as agents and sequences are explained in detail.*

POSIX PROGRAMMERS GUIDE

"O'Reilly Media, Inc." *Software -- Operating Systems.*

PROGRAMMING IN LUA

Roberto Ierusalimschy *Authored by Roberto Ierusalimschy, the chief architect of the language, this volume covers all aspects of Lua 5---from the basics to its API with C---explaining how to make good use of its features and giving numerous code examples. (Computer Books)*

TECHNICAL REGULATIONS

TR.

ENERGY EFFICIENCY STANDARDS FOR RESIDENTIAL & NONRESIDENTIAL BUILDINGS

DIANE Publishing *Lists the California code regulations for energy efficient standards for residential and nonresidential buildings. Changes made since the 1992 version are marked with a bar in the outside margin and the index is also expanded to include many more useful terms. Changes focus on improving compliance by more clearly describing the responsibilities of each party in the compliance and construction process. Numerous charts and tables.*

DROUGHT PHENOTYPING IN CROPS: FROM THEORY TO PRACTICE

Frontiers E-books This topic is a unique attempt to simultaneously tackle theoretical and practical aspects in drought phenotyping, through both crop-specific and cross-cutting approaches. It is designed for – and will be of use to – practitioners and postgraduate students in plant science, who are grappling with the challenging task of evaluating germplasm performance under different water regimes. In Part I, different methodologies are presented for accurately characterising environmental conditions, implementing trials, and capturing and analysing the information this generates, regardless of the crop. Part II presents the state-of-art in research on adaptation to drought, and recommends specific protocols to measure different traits in major food crops (focusing on particular cereals, legumes and clonal crops). The topic is part of the CGIAR Generation Challenge Programme's efforts to disseminate crop research information, tools and protocols, for improving characterisation of environments and phenotyping conditions. The goal is to enhance expertise in testing locations, and to stimulate the development and use of traits related to drought tolerance, as well as innovative protocols for crop characterisation and breeding.

HARD DISK MANAGEMENT TECHNIQUES FOR THE IBM

Sams Technical Publishing

RED HAT OPENSIFT V4.3 ON IBM POWER SYSTEMS REFERENCE GUIDE

IBM Redbooks This IBM® Redpaper publication describes how to deploy Red Hat OpenShift V4.3 on IBM Power Systems servers. This book presents reference architectures for deployment, initial sizing guidelines for server, storage, and IBM Cloud® Paks. Moreover, this publication delivers information about initial supported Power System configurations for Red Hat OpenShift V4.3 deployment (bare metal, IBM PowerVM® LE LPARs, and others). This book serves as a guide for how to deploy Red Hat OpenShift V4.3 and provide start guidelines and recommended practices for implementing it on Power Systems and completing it with the supported IBM Cloud Paks. The publication addresses topics for developers, IT architects, IT specialists, sellers, and anyone who wants to implement a Red Hat OpenShift V4.3 and IBM Cloud Paks on IBM Power Systems. This book also provides technical content to transfer how-to skills to the support teams, and solution guidance to the sales team. This book compliments the documentation that is available at IBM Knowledge Center, and also aligns with the educational offerings that are provided by the IBM Systems Technical Education (SSE).

REPAIR, PROTECTION AND WATERPROOFING OF CONCRETE STRUCTURES

CRC Press A wealth of recent research into the continued deterioration of reinforced concrete structures has led to a review of methods of investigation and repair techniques. This thoroughly revised and updated new edition brings together the fundamental aspects of this world wide problem and offers advice on how investigations, diagnosis and consequent rem

MACHINE LEARNING AND METAHEURISTICS ALGORITHMS, AND APPLICATIONS

FIRST SYMPOSIUM, SOMMA 2019, TRIVANDRUM, INDIA, DECEMBER 18-21, 2019, REVISED SELECTED PAPERS

Springer Nature This book constitutes the refereed proceedings of the First Symposium on Machine Learning and Metaheuristics Algorithms, and Applications, held in Trivandrum, India, in December 2019. The 17 full papers and 6 short papers presented in this volume were thoroughly reviewed and selected from 53 qualified submissions. The papers cover such topics as machine learning, artificial intelligence, Internet of Things, modeling and simulation, distributed computing methodologies, computer graphics, etc.

PYTHON DATA VISUALIZATION COOKBOOK

Packt Publishing Ltd Over 70 recipes to get you started with popular Python libraries based on the principal concepts of data visualization About This Book Learn how to set up an optimal Python environment for data visualization Understand how to import, clean and organize your data Determine different approaches to data visualization and how to choose the most appropriate for your needs Who This Book Is For If you already know about Python programming and want to understand data, data formats, data visualization, and how to use Python to visualize data then this book is for you. What You Will Learn Introduce yourself to the essential tooling to set up your working environment Explore your data using the capabilities of standard Python Data Library and Panda Library Draw your first chart and customize it Use the most popular data visualization Python libraries Make 3D visualizations mainly using mplot3d Create charts with images and maps Understand the most appropriate charts to describe your data Know the matplotlib hidden gems Use plot.ly to share your visualization online In Detail Python Data Visualization Cookbook will progress the reader from the point of installing and setting up a Python environment for data manipulation and visualization all the way to 3D animations using Python libraries. Readers will benefit from over 60 precise and reproducible recipes that will guide the reader towards a better understanding of data concepts and the building blocks for subsequent and sometimes more advanced concepts. Python Data Visualization Cookbook starts by showing how to set up matplotlib and the related libraries that are required for most parts of the book, before moving on to discuss some of the lesser-used diagrams and charts such as Gantt Charts or Sankey diagrams. Initially it uses simple plots and charts to more advanced ones, to make it easy to understand for readers. As the readers will go through the book, they will get to know about the 3D diagrams and animations. Maps are irreplaceable for displaying geo-spatial data, so this book will also show how to build them. In the last chapter, it includes explanation on how to incorporate matplotlib into different environments, such as a writing system, LaTeX, or how to create Gantt charts using Python. Style and approach A step-by-step recipe based approach to data visualization. The topics are explained sequentially as cookbook recipes consisting of a code snippet and the resulting visualization.

EXTREMOPHILES IN DEEP-SEA ENVIRONMENTS

Springer Science & Business Media Many organisms in deep-sea environments are extremophiles thriving in extreme conditions:

high pressure, high or low temperature, or high concentrations of inorganic compounds. This book presents the microbiology of extremophiles living in the deep sea and describes the isolation, cultivation, and taxonomic identification of microorganisms retrieved from the Mariana Trench, the world's deepest point. Also explained are techniques for recovering pressure-loving bacteria, the barophiles (piezophiles), and for whole genome analysis of *Bacillus halodurans* C-125. Physiological analysis of the pressure effect in *Saccharomyces cerevisiae* and *Escherichia coli* is used to answer the question of how deep-sea organisms survive under high hydrostatic pressure. These research results are useful in both basic science and industrial applications. Readers discover a new microbial world in the ocean depths, with state-of-the-science information on extremophiles.

PYTHON DATA ANALYSIS COOKBOOK

Packt Publishing Ltd Over 140 practical recipes to help you make sense of your data with ease and build production-ready data apps About This Book Analyze Big Data sets, create attractive visualizations, and manipulate and process various data types Packed with rich recipes to help you learn and explore amazing algorithms for statistics and machine learning Authored by Ivan Idris, expert in python programming and proud author of eight highly reviewed books Who This Book Is For This book teaches Python data analysis at an intermediate level with the goal of transforming you from journeyman to master. Basic Python and data analysis skills and affinity are assumed. What You Will Learn Set up reproducible data analysis Clean and transform data Apply advanced statistical analysis Create attractive data visualizations Web scrape and work with databases, Hadoop, and Spark Analyze images and time series data Mine text and analyze social networks Use machine learning and evaluate the results Take advantage of parallelism and concurrency In Detail Data analysis is a rapidly evolving field and Python is a multi-paradigm programming language suitable for object-oriented application development and functional design patterns. As Python offers a range of tools and libraries for all purposes, it has slowly evolved as the primary language for data science, including topics on: data analysis, visualization, and machine learning. Python Data Analysis Cookbook focuses on reproducibility and creating production-ready systems. You will start with recipes that set the foundation for data analysis with libraries such as matplotlib, NumPy, and pandas. You will learn to create visualizations by choosing color maps and palettes then dive into statistical data analysis using distribution algorithms and correlations. You'll then help you find your way around different data and numerical problems, get to grips with Spark and HDFS, and then set up migration scripts for web mining. In this book, you will dive deeper into recipes on spectral analysis, smoothing, and bootstrapping methods. Moving on, you will learn to rank stocks and check market efficiency, then work with metrics and clusters. You will achieve parallelism to improve system performance by using multiple threads and speeding up your code. By the end of the book, you will be capable of handling various data analysis techniques in Python and devising solutions for problem scenarios. Style and Approach The book is written in "cookbook" style striving for high realism in data analysis. Through the recipe-based format, you can read each recipe separately as required and immediately apply the knowledge gained.

SYNTHESIZER BASICS

Hal Leonard Corporation Here is the fundamental knowledge and information that a beginning or intermediate electronic musician must have to understand and play today's keyboard synthesizers. This basic primer, newly updated from the classic original edition, offers step-by-step explanations and practical advice on what a synthesizer is, the basic concepts and components, and the latest technical developments and applications. Written by Bob Moog, Roger Powell, Steve Porcaro (of Toto), Tom Rhea, and other well-known experts, *Synthesizer Basics* is the first, and still the best, introduction available today.

APACHE

THE DEFINITIVE GUIDE

"O'Reilly Media, Inc." Describes the history of the Web server platform and covers downloading and compiling, configuring and running the program on UNIX, writing specialized modules, and establishing security routines.

DEVOPS FOR WEB DEVELOPMENT

Packt Publishing Ltd Achieve the Continuous Integration and Continuous Delivery of your web applications with ease About This Book Overcome the challenges of implementing DevOps for web applications, familiarize yourself with diverse third-party modules, and learn how to integrate them with bespoke code to efficiently complete tasks Understand how to deploy web applications for a variety of Cloud platforms such as Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure, Azure Web Apps, and Docker Container Understand how to monitor applications deployed in Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure, Azure Web Apps using Nagios, New Relic, Microsoft Azure, and AWS default monitoring features Who This Book Is For If you are a system admin or application and web application developer with a basic knowledge of programming and want to get hands-on with tools such as Jenkins 2 and Chef, and Cloud platforms such as AWS and Microsoft Azure, Docker, New Relic, Nagios, and their modules to host, deploy, monitor, and manage their web applications, then this book is for you. What You Will Learn Grasp Continuous Integration for a JEE application—create and configure a build job for a Java application with Maven and with Jenkins 2.0 Create built-in delivery pipelines of Jenkins 2 and build a pipeline configuration for end-to-end automation to manage the lifecycle of Continuous Integration Get to know all about configuration management using Chef to create a runtime environment Perform instance provisioning in AWS and Microsoft Azure and manage virtual machines on different cloud platforms—install Knife plugins for Amazon EC2 and Microsoft Azure Deploy an application in Amazon EC2, AWS Elastic Beanstalk, Microsoft Azure Web Apps, and a Docker container Monitor infrastructure, application servers, web servers, and applications with the use of open source monitoring solutions and New Relic Orchestrate multiple build jobs to achieve application deployment automation—create parameterized build jobs for end-to-end automation In Detail The DevOps culture is growing at a massive rate, as many organizations are adopting it. However, implementing it for web applications is one of the biggest challenges experienced by many developers and admins, which this book will help you overcome using various tools, such as Chef, Docker, and Jenkins. On the basis of the functionality of these tools, the book is divided

into three parts. The first part shows you how to use Jenkins 2.0 for Continuous Integration of a sample JEE application. The second part explains the Chef configuration management tool, and provides an overview of Docker containers, resource provisioning in cloud environments using Chef, and Configuration Management in a cloud environment. The third part explores Continuous Delivery and Continuous Deployment in AWS, Microsoft Azure, and Docker, all using Jenkins 2.0. This book combines the skills of both web application deployment and system configuration as each chapter contains one or more practical hands-on projects. You will be exposed to real-world project scenarios that are progressively presented from easy to complex solutions. We will teach you concepts such as hosting web applications, configuring a runtime environment, monitoring and hosting on various cloud platforms, and managing them. This book will show you how to essentially host and manage web applications along with Continuous Integration, Cloud Computing, Configuration Management, Continuous Monitoring, Continuous Delivery, and Deployment. Style and approach This is a learning guide for those who have a basic knowledge of application deployment, configuration management tools, and Cloud computing, and are eager to leverage it to implement DevOps for web applications using end-to-end automation and orchestration.

INTELLIGENT INFORMATION PROCESSING AND WEB MINING

PROCEEDINGS OF THE INTERNATIONAL IIS: IIPWM'05 CONFERENCE HELD IN GDANSK, POLAND, JUNE 13-16, 2005

Springer Science & Business Media This edited book contains articles accepted for presentation during the conference "Intelligent Information Systems 2005 (IIS 2005) - New Trends in Intelligent Information Processing and Web Mining" held in Gdansk, Poland, on June 13-16, 2005. Special attention is devoted to the newest developments in the areas of Artificial Immune Systems, Search engines, Computational Linguistics and Knowledge Discovery. The focus of this book is also on new computing paradigms including biologically motivated methods, quantum computing, DNA computing, advanced data analysis, new machine learning paradigms, reasoning technologies, natural language processing and new optimization techniques.

LIFE CYCLE DESIGN

A MANUAL FOR SMALL AND MEDIUM-SIZED ENTERPRISES

Springer Science & Business Media Small and medium-sized enterprises can serve as promising cradles for challenging ideas and pioneering initiatives. That is exactly what is required in order to make progress towards sustainable levels and patterns of production and consumption. Of all the continents of the world, Europe is most likely to lead the way towards a more sustainable relation with the environment. Having been the cradle of the industrialized world as we know it today, Europe again will lead the way in the journey of discovery to sustainable industrial practice, that is, if suitable conditions exist, and engaged and motivated entrepreneurs take the challenge and the role of the pioneer. Essential to these conditions is a set of values regarding the availability and properties of resources, the functioning of products and the impact upon the environment, now and well into the future, in Europe as well as globally. Furthermore, imagination, information and encouragement will be essential. This manual provides ideas, tools, examples and guidance for small and medium-sized enterprises (SMEs) that wish to develop products with the environment and the future in mind. It addresses product development and design with consideration for the whole life cycle of the product. This cycle is a process ranging from the identification and formulation of a need at the early stage of product development to the disposal of the product, after repeated usage, at the end of its life. A particular focus has been given to principles and criteria in the design of complex products.

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON INDUSTRIAL AND MANUFACTURING SYSTEMS (CIMS-2020)

OPTIMIZATION IN INDUSTRIAL AND MANUFACTURING SYSTEMS AND APPLICATIONS

Springer Nature In order to deal with the societal challenges novel technology plays an important role. For the advancement of technology, Department of Industrial and Production Engineering under the aegis of NIT Jalandhar is organizing an "International Conference on Industrial and Manufacturing Systems" (CIMS-2020) from 26th -28th June, 2020. The present conference aims at providing a leading forum for sharing original research contributions and real-world developments in the field of Industrial and Manufacturing Systems so as to contribute its share for technological advancements. This volume encloses various manuscripts having its roots in the core of industrial and production engineering. Globalization provides all around development and this development is impossible without technological contributions. CIMS-2020, gathered the spirits of various academicians, researchers, scientists and practitioners, answering the vivid issues related to optimisation in the various problems of industrial and manufacturing systems.

TREE DIVERSITY ANALYSIS

A MANUAL AND SOFTWARE FOR COMMON STATISTICAL METHODS FOR ECOLOGICAL AND BIODIVERSITY STUDIES

World Agroforestry Centre

HIV RESERVOIRS

METHODS AND PROTOCOLS

Humana This book details the development of methods and models to study the HIV-1 viral reservoir with the ultimate goal of achieving a functional cure of HIV infection. Chapters are divided into six parts covering cell lines, in vitro and ex vivo primary cell

models of persistent infection, in vitro and ex vivo tissue-derived models, infected animal models human immune cells, methods of detection and analysis of the reservoir, and current approaches to achieve either a functional cure or cART-free long-term remission. Written in the format of the highly successful *Methods in Molecular Biology* series, each chapter includes an introduction to the topic, lists necessary materials and reagents, includes tips on troubleshooting and known pitfalls, and step-by-step, readily reproducible protocols. Authoritative and cutting-edge, *HIV Reservoirs: Methods and Protocols* provides a comprehensive, updated collection of state-of-art methodologies and models to tackle the HIV-1 viral reservoir.

SAS(R) 9.1 MACRO LANGUAGE

REFERENCE

Sas Inst Increase the modularity, flexibility, and maintainability of your SAS code with the SAS macro facility. This comprehensive reference provides complete information about macro language elements, interfaces between the macro facility and other parts of SAS software, and macro processing in general. With this title, you will learn how to create efficient and portable macro code, reduce the amount of text needed for common tasks, integrate macros with other parts of your SAS programs, and debug macros during development. This title is also available online. To take advantage of this book, you should have at least an intermediate knowledge of Base SAS programming. Supports releases 9.1 and higher of SAS software.

PYTHON DATA VISUALIZATION COOKBOOK SECOND EDITION

Over 70 recipes to get you started with popular Python libraries based on the principal concepts of data visualization
About This Book
 • Learn how to set up an optimal Python environment for data visualization
 • Understand how to import, clean and organize your data
 • Determine different approaches to data visualization and how to choose the most appropriate for your needs
Who This Book Is For
 If you already know about Python programming and want to understand data, data formats, data visualization, and how to use Python to visualize data then this book is for you.
What You Will Learn
 • Introduce yourself to the essential tooling to set up your working environment
 • Explore your data using the capabilities of standard Python Data Library and Panda Library
 • Draw your first chart and customize it
 • Use the most popular data visualization Python libraries
 • Make 3D visualizations mainly using mplot3d
 • Create charts with images and maps
 • Understand the most appropriate charts to describe your data
 • Know the matplotlib hidden gems
 • Use plot.ly to share your visualization online
Detail
 Python Data Visualization Cookbook will progress the reader from the point of installing and setting up a Python environment for data manipulation and visualization all the way to 3D animations using Python libraries. Readers will benefit from over 60 precise and reproducible recipes that will guide the reader towards a better understanding of data concepts and the building blocks for subsequent and sometimes more advanced concepts. Python Data Visualization Cookbook starts by showing how to set up matplotlib and the related libraries that are required for most parts of the book, before moving on to discuss some of the lesser-used diagrams and charts such as Gantt Charts or Sankey diagrams. Initially it uses simple plots and charts to more advanced ones, to make it easy to understand for readers. As the readers will go through the book, they will get to know about the 3D diagrams and animations. Maps are irreplaceable for displaying geo-spatial data, so this book will also show how to build them. In the last chapter, it includes explanation on how to incorporate matplotlib into different environments, such as a writing system, LaTeX, or how to create Gantt charts using Python.
Style and approach
 A step-by-step recipe based approach to data visualization. The topics are explained sequentially as cookbook recipes consisting of a code snippet and the resulting visualization.

MASTERING MODERN LINUX

CRC Press Praise for the First Edition: "This outstanding book ... gives the reader robust concepts and implementable knowledge of this environment. Graphical user interface (GUI)-based users and developers do not get short shrift, despite the command-line interface's (CLI) full-power treatment. ... Every programmer should read the introduction's Unix/Linux philosophy section. ... This authoritative and exceptionally well-constructed book has my highest recommendation. It will repay careful and recursive study." -- *Computing Reviews*, August 2011
 Mastering Modern Linux, Second Edition retains much of the good material from the previous edition, with extensive updates and new topics added. The book provides a comprehensive and up-to-date guide to Linux concepts, usage, and programming. The text helps the reader master Linux with a well-selected set of topics, and encourages hands-on practice. The first part of the textbook covers interactive use of Linux via the Graphical User Interface (GUI) and the Command-Line Interface (CLI), including comprehensive treatment of the Gnome desktop and the Bash Shell. Using different apps, commands and filters, building pipelines, and matching patterns with regular expressions are major focuses. Next comes Bash scripting, file system structure, organization, and usage. The following chapters present networking, the Internet and the Web, data encryption, basic system admin, as well as Web hosting. The Linux Apache MySQL/MariaDB PHP (LAMP) Web hosting combination is also presented in depth. In the last part of the book, attention is turned to C-level programming. Topics covered include the C compiler, preprocessor, debugger, I/O, file manipulation, process control, inter-process communication, and networking. The book includes many examples and complete programs ready to download and run. A summary and exercises of varying degrees of difficulty can be found at the end of each chapter. A companion website (<http://mml.sofpower.com>) provides appendices, information updates, an example code package, and other resources for instructors, as well as students.

OAT

METHODS AND PROTOCOLS

The volume provides detailed protocols that have been developed or modified exclusively for the study of oat. The topics discussed in this book are a selection of various molecular biology and biotechnology methods, such as the application of molecular markers for polymorphism analyses and cytological manipulations, the production of synthetic polyploids, and in vitro cultures and genetic modifications. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their

respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and comprehensive, *Oat: Methods and Protocols* is a useful resource in the development of new research approaches toward organizing the oat genome and the identification of new and useful traits for further improvements of this exceptional crop.

FCS CONCRETE STRUCTURES L3

Pearson South Africa

DIRECT3D SHADERX

VERTEX AND PIXEL SHADER TIPS AND TRICKS

Wordware *Focusing on Direct3D 8.x, this book shows a wide array of specialized vertex and pixel shader programming tricks from industry experts.*

TRANSFORMING TOWNSCAPES

FROM BURH TO BOROUGH: THE ARCHAEOLOGY OF WALLINGFORD, AD 800-1400

Routledge *"This monograph details the results of a major archaeological project based on and around the historic town of Wallingford in south Oxfordshire. Founded in the late Saxon period as a key defensive and administrative focus next to the Thames, the settlement also contained a substantial royal castle established shortly after the Norman Conquest. The volume traces the pre-town archaeology of Wallingford and then analyses the town's physical and social evolution, assessing defences, churches, housing, markets, material culture, coinage, communications and hinterland. Core questions running through the volume relate to the roles of the River Thames and of royal power in shaping Wallingford's fortunes and identity and in explaining the town's severe and early decline."*

GIS ALGORITHMS

SAGE *Geographic information systems (GIS) have become increasingly important in helping us understand complex social, economic, and natural dynamics where spatial components play a key role. The critical algorithms used in GIS, however, are notoriously difficult to both teach and understand, in part due to the lack of a coherent representation. GIS Algorithms attempts to address this problem by combining rigorous formal language with example case studies and student exercises. Using Python code throughout, Xiao breaks the subject down into three fundamental areas: Geometric Algorithms Spatial Indexing Spatial Analysis and Modelling With its comprehensive coverage of the many algorithms involved, GIS Algorithms is a key new textbook in this complex and critical area of geography.*

NUMERICAL ECOLOGY WITH R

Springer *This new edition of Numerical Ecology with R guides readers through an applied exploration of the major methods of multivariate data analysis, as seen through the eyes of three ecologists. It provides a bridge between a textbook of numerical ecology and the implementation of this discipline in the R language. The book begins by examining some exploratory approaches. It proceeds logically with the construction of the key building blocks of most methods, i.e. association measures and matrices, and then submits example data to three families of approaches: clustering, ordination and canonical ordination. The last two chapters make use of these methods to explore important and contemporary issues in ecology: the analysis of spatial structures and of community diversity. The aims of methods thus range from descriptive to explanatory and predictive and encompass a wide variety of approaches that should provide readers with an extensive toolbox that can address a wide palette of questions arising in contemporary multivariate ecological analysis. The second edition of this book features a complete revision to the R code and offers improved procedures and more diverse applications of the major methods. It also highlights important changes in the methods and expands upon topics such as multiple correspondence analysis, principal response curves and co-correspondence analysis. New features include the study of relationships between species traits and the environment, and community diversity analysis. This book is aimed at professional researchers, practitioners, graduate students and teachers in ecology, environmental science and engineering, and in related fields such as oceanography, molecular ecology, agriculture and soil science, who already have a background in general and multivariate statistics and wish to apply this knowledge to their data using the R language, as well as people willing to accompany their disciplinary learning with practical applications. People from other fields (e.g. geology, geography, paleoecology, phylogenetics, anthropology, the social and education sciences, etc.) may also benefit from the materials presented in this book. Users are invited to use this book as a teaching companion at the computer. All the necessary data files, the scripts used in the chapters, as well as extra R functions and packages written by the authors of the book, are available online (URL: <http://adn.biol.umontreal.ca/~numericaecology/numecolR/>).*

DEVELOPMENTS IN NUMERICAL ECOLOGY

Springer Science & Business Media *From earlier ecological studies it has become apparent that simple univariate or bivariate statistics are often inappropriate, and that multivariate statistical analyses must be applied. Despite several difficulties arising from the application of multivariate methods, community ecology has acquired a mathematical framework, with three consequences: it can develop as an exact science; it can be applied operationally as a computer-assisted science to the solution of environmental problems; and it can exchange information with other disciplines using the language of mathematics. This book comprises the invited lectures, as well as working group reports, on the NATO workshop held in Roscoff (France) to improve the applicability of this new method numerical ecology to specific ecological problems.*

MASTERING LINUX

CRC Press Encouraging hands-on practice, *Mastering Linux* provides a comprehensive, up-to-date guide to Linux concepts, usage, and programming. Through a set of carefully selected topics and practical examples, the book imparts a sound understanding of operating system concepts and shows how to use Linux effectively. *Ready-to-Use Examples Offer Immediate Access to Practical Applications* After a primer on the fundamentals, the text covers user interfaces, commands and filters, Bash Shell scripting, the file system, networking and Internet use, and kernel system calls. It presents many examples and complete programs ready to run on your Linux system. Each chapter includes a summary and exercises of varying degrees of difficulty. *Web Resource* The companion website at <http://ml.sofpower.com/> offers a host of ancillary materials. Along with links to numerous resources, it includes appendices on SSH and SFTP, VIM, text editing with Vi, and the emacs editor. The site also provides a complete example code package for download. *Master the Linux Operating System Toolbox* This book enables you to leverage the capabilities and power of the Linux system more effectively. Going beyond this, it can help you write programs at the shell and C levels—encouraging you to build new custom tools for applications and R&D.

IMPLEMENTING REPRODUCIBLE RESEARCH

CRC Press In computational science, reproducibility requires that researchers make code and data available to others so that the data can be analyzed in a similar manner as in the original publication. Code must be available to be distributed, data must be accessible in a readable format, and a platform must be available for widely distributing the data and code. In addition, both data and code need to be licensed permissively enough so that others can reproduce the work without a substantial legal burden. *Implementing Reproducible Research* covers many of the elements necessary for conducting and distributing reproducible research. It explains how to accurately reproduce a scientific result. Divided into three parts, the book discusses the tools, practices, and dissemination platforms for ensuring reproducibility in computational science. It describes: Computational tools, such as Sweave, knitr, VisTrails, Sumatra, CDE, and the Declaratron system Open source practices, good programming practices, trends in open science, and the role of cloud computing in reproducible research Software and methodological platforms, including open source software packages, RunMyCode platform, and open access journals Each part presents contributions from leaders who have developed software and other products that have advanced the field. Supplementary material is available at www.ImplementingRR.org.

OVERARCHING NATIONAL POLICY STATEMENT FOR ENERGY (EN-1)

The Stationery Office This national policy statement (NPS) sets out national policy for the energy infrastructure. A further five technology-specific NPSs for the energy sector cover: fossil fuel electricity generation (EN-2) (ISBN 9780108510786); renewable electricity generation (both onshore and offshore) (EN-3) (ISBN 9780108510793); gas supply infrastructure and gas and oil pipelines (EN-4) (ISBN 9780108510809); the electricity transmission and distribution network (EN-5) (ISBN 9780108510816); and nuclear power generation (EN-6) (ISBN 9780108510823). An Impact assessment is also available (ISBN 9780108510830). The NPSs have effect on the decisions by the Infrastructure Planning Commission on application for energy developments. This statement outlines the Government's objectives for the power sector in order to meet its energy and climate change strategy. It sets out the need for new energy infrastructure and the assessment principles and generic impacts.

SOYBEAN BREEDING

Springer This book was written by soybean experts to cluster in a single publication the most relevant and modern topics in soybean breeding. It is geared mainly to students and soybean breeders around the world. It is unique since it presents the challenges and opportunities faced by soybean breeders outside the temperate world.

FORMAL SYNTAX AND SEMANTICS OF PROGRAMMING LANGUAGES

A LABORATORY BASED APPROACH

Addison-Wesley *Formal Syntax and Semantics of Programming Languages: A Laboratory Based Approach* presents a panorama of techniques in formal syntax, operational semantics and formal semantics. Using a teaching/learning perspective rather than a research-oriented approach, an understanding of the meta-languages is accessible to anyone with a basic grounding in discrete mathematics and programming language concepts. Throughout the book, valuable hands-on laboratory exercises provide the opportunity for practical application of difficult concepts. Various exercises and examples, implementing syntactic and semantic specifications on real systems, give students hands-on practice. Supplemental software is available on disk or via file transfer protocol. This book is suitable for an advanced undergraduate or introductory graduate level course on the formal syntax and semantics of programming languages.

IBM POWERVM VIRTUALIZATION INTRODUCTION AND CONFIGURATION

IBM Redbooks This IBM® Redbooks® publication provides an introduction to PowerVMTM virtualization technologies on Power System servers. PowerVM is a combination of hardware, firmware, and software that provides CPU, network, and disk virtualization. These are the main virtualization technologies: POWER7, POWER6, and POWER5 hardware POWER Hypervisor Virtual I/O Server Though the PowerVM brand includes partitioning, management software, and other offerings, this publication focuses on the virtualization technologies that are part of the PowerVM Standard and Enterprise Editions. This publication is also designed to be an introduction guide for system administrators, providing instructions for these tasks: Configuration and creation of partitions and resources on the HMC Installation and configuration of the Virtual I/O Server Creation and installation of virtualized partitions Examples using AIX, IBM i, and Linux This edition has been updated with the latest updates available and an improved content organization.

BRIDGE ENGINEERING HANDBOOK

VOLUME 1

CRC Press *First Published in 1999: The Bridge Engineering Handbook is a unique, comprehensive, and state-of-the-art reference work and resource book covering the major areas of bridge engineering with the theme "bridge to the 21st century."*