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MATHEMATICAL STATISTICS AND DATA ANALYSIS

Cengage Learning *This is the first text in a generation to re-examine the purpose of the mathematical statistics course. The book's approach interweaves traditional topics with data analysis and reflects the use of the computer with close ties to the practice of statistics. The author stresses analysis of data, examines real problems with real data, and motivates the theory. The book's descriptive statistics, graphical displays, and realistic applications stand in strong contrast to traditional texts that are set in abstract settings. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

MATHEMATICAL STATISTICS AND DATA ANALYSIS

Brooks/Cole *This is the first text in a generation to re-examine the purpose of the mathematical statistics course. The book's approach interweaves traditional topics with data analysis and reflects the use of the computer with close ties to the practice of statistics. The author stresses analysis of data, examines real problems with real data, and motivates the theory. The book's descriptive statistics, graphical displays, and realistic applications stand in strong contrast to traditional texts that are set in abstract settings. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.*

STATISTICAL PROCEDURES FOR AGRICULTURAL RESEARCH

John Wiley & Sons *Here in one easy-to-understand volume are the statistical procedures and techniques the agricultural researcher needs to know in order to design, implement, analyze, and interpret the results of most experiments with*

crops. Designed specifically for the non-statistician, this valuable guide focuses on the practical problems of the field researcher. Throughout, it emphasizes the use of statistics as a tool of research—one that will help pinpoint research problems and select remedial measures. Whenever possible, mathematical formulations and statistical jargon are avoided. Originally published by the International Rice Research Institute, this widely respected guide has been totally updated and much expanded in this Second Edition. It now features new chapters on the analysis of multi-observation data and experiments conducted over time and space. Also included is a chapter on experiments in farmers' fields, a subject of major concern in developing countries where agricultural research is commonly conducted outside experiment stations. Statistical Procedures for Agricultural Research, Second Edition will prove equally useful to students and professional researchers in all agricultural and biological disciplines. A wealth of examples of actual experiments help readers to choose the statistical method best suited for their needs, and enable even the most complicated procedures to be easily understood and directly applied. An International Rice Research Institute Book

SOCIOLOGICAL METHODOLOGY

John Wiley & Sons *The 2009 volume of Sociological Methodology continues a 41-year tradition of providing cutting-edge methodology for sociological research. Under the editorship of Yu Xie, three features are prominent in this volume: · Appropriate and practical methodological tools for substantive research. · Interdisciplinary dialogues on methodological issues between sociologists and non-sociologists. · Dedication to publishing purely methodological work in sociology.*

FOUNDATIONS OF AGNOSTIC STATISTICS

Cambridge University Press *Provides an introduction to modern statistical theory for social and health scientists while invoking minimal modeling assumptions.*

5 STEPS TO CUSTOMER CENTRICITY

Lulu.com *Companies are no longer in the business of selling products and services - they are selling experiences. Most decision makers in medium and large size companies however are far removed from their customers. In The 5 Stepping Stones to Customer Centricity, award-winning Customer Experience professional Koert Breebaart takes us through a unique framework for enterprises to realize customer value in a limited timeframe. The book provides us, the Customer Champions, with a balanced understanding of the most important aspects of Customer Experience Management, a practical guide to set companywide customer targets and examples, illustrations and war stories from different industries on how the concepts are applied.*

STATISTICAL ANALYSIS OF MASSIVE DATA STREAMS

PROCEEDINGS OF A WORKSHOP

National Academies Press *Massive data streams, large quantities of data that*

arrive continuously, are becoming increasingly commonplace in many areas of science and technology. Consequently development of analytical methods for such streams is of growing importance. To address this issue, the National Security Agency asked the NRC to hold a workshop to explore methods for analysis of streams of data so as to stimulate progress in the field. This report presents the results of that workshop. It provides presentations that focused on five different research areas where massive data streams are present: atmospheric and meteorological data; high-energy physics; integrated data systems; network traffic; and mining commercial data streams. The goals of the report are to improve communication among researchers in the field and to increase relevant statistical science activity.

BAYESIAN DATA ANALYSIS, THIRD EDITION

CRC Press Now in its third edition, this classic book is widely considered the leading text on Bayesian methods, lauded for its accessible, practical approach to analyzing data and solving research problems. *Bayesian Data Analysis, Third Edition* continues to take an applied approach to analysis using up-to-date Bayesian methods. The authors—all leaders in the statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods. Throughout the text, numerous worked examples drawn from real applications and research emphasize the use of Bayesian inference in practice. New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary-avoiding priors Updated discussion of cross-validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for iterative simulation Presentations of Hamiltonian Monte Carlo, variational Bayes, and expectation propagation New and revised software code The book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in statistics and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the book's web page.

INTERNATIONAL JOURNAL OF AFRO-ASIAN STUDIES

VOL.5, NOS.1-2

Universal-Publishers

APPENDIX TO THE RICE ECONOMY OF ASIA

Int. Rice Res. Inst. This appendix is a companion volume to the *Rice Economy of Asia* by Randolph Barker, Robert W. Herdt, with Beth Rose.

INTRODUCTION TO STATISTICS AND DATA ANALYSIS

WITH EXERCISES, SOLUTIONS AND APPLICATIONS IN R

Springer *This introductory statistics textbook conveys the essential concepts and tools needed to develop and nurture statistical thinking. It presents descriptive, inductive and explorative statistical methods and guides the reader through the process of quantitative data analysis. In the experimental sciences and interdisciplinary research, data analysis has become an integral part of any scientific study. Issues such as judging the credibility of data, analyzing the data, evaluating the reliability of the obtained results and finally drawing the correct and appropriate conclusions from the results are vital. The text is primarily intended for undergraduate students in disciplines like business administration, the social sciences, medicine, politics, macroeconomics, etc. It features a wealth of examples, exercises and solutions with computer code in the statistical programming language R as well as supplementary material that will enable the reader to quickly adapt all methods to their own applications.*

HANDBOOK ON CONSTRUCTING COMPOSITE INDICATORS: METHODOLOGY AND USER GUIDE

OECD Publishing *A guide for constructing and using composite indicators for policy makers, academics, the media and other interested parties. In particular, this handbook is concerned with indicators which compare and rank country performance.*

ALL OF STATISTICS

A CONCISE COURSE IN STATISTICAL INFERENCE

Springer Science & Business Media *Taken literally, the title "All of Statistics" is an exaggeration. But in spirit, the title is apt, as the book does cover a much broader range of topics than a typical introductory book on mathematical statistics. This book is for people who want to learn probability and statistics quickly. It is suitable for graduate or advanced undergraduate students in computer science, mathematics, statistics, and related disciplines. The book includes modern topics like non-parametric curve estimation, bootstrapping, and classification, topics that are usually relegated to follow-up courses. The reader is presumed to know calculus and a little linear algebra. No previous knowledge of probability and statistics is required. Statistics, data mining, and machine learning are all concerned with collecting and analysing data.*

HANDBOOK OF EMPIRICAL RESEARCH ON ISLAM AND ECONOMIC LIFE

Edward Elgar Publishing *In Islamic jurisprudence, a comprehensive ethic has been formulated governing how business and commerce should be run, how accountability to God and the community is to be achieved, and how banking and finance is to be arranged. This Handbook examines how well these values are translated into actual performance. It explores whether those holding true to the system are hindered and put at a disadvantage or whether the Islamic institutions*

have been able to demonstrate that faith-based activities can be rewarding, both economically and spiritually.

MATHEMATICAL STATISTICS AND DATA ANALYSIS

Duxbury Resource Center *Re-examines the purpose of the math statistics course. The approach of the text, interweaving traditional topics with data analysis, reflects the use of the computer and is closely tied to the practice of statistics.*

HANDBOOK OF RESEARCH ON ENGINEERING, BUSINESS, AND HEALTHCARE APPLICATIONS OF DATA SCIENCE AND ANALYTICS

IGI Global *Analyzing data sets has continued to be an invaluable application for numerous industries. By combining different algorithms, technologies, and systems used to extract information from data and solve complex problems, various sectors have reached new heights and have changed our world for the better. The Handbook of Research on Engineering, Business, and Healthcare Applications of Data Science and Analytics is a collection of innovative research on the methods and applications of data analytics. While highlighting topics including artificial intelligence, data security, and information systems, this book is ideally designed for researchers, data analysts, data scientists, healthcare administrators, executives, managers, engineers, IT consultants, academicians, and students interested in the potential of data application technologies.*

THE CIVILIAN LIVES OF U.S. VETERANS: ISSUES AND IDENTITIES [2 VOLUMES]

ABC-CLIO *In this book, 50 experts study the lives of U.S. veterans at work, at home, and in American society as they navigate issues regarding health, gender, public service, substance abuse, and homelessness.*

- Considers the changing demographics of U.S. veterans as compared to previous generations of military personnel
- Shows the impact that veterans are having on federal, state, and local government organizations
- Describes how servicemembers transition from active duty to veteran status
- Includes cross references for ease of use

PRACTICAL TEXT MINING AND STATISTICAL ANALYSIS FOR NON-STRUCTURED TEXT DATA APPLICATIONS

Academic Press *Practical Text Mining and Statistical Analysis for Non-structured Text Data Applications brings together all the information, tools and methods a professional will need to efficiently use text mining applications and statistical analysis. Winner of a 2012 PROSE Award in Computing and Information Sciences from the Association of American Publishers, this book presents a comprehensive how-to reference that shows the user how to conduct text mining and statistically analyze results. In addition to providing an in-depth examination of core text mining and link detection tools, methods and operations, the book examines advanced preprocessing techniques, knowledge representation considerations, and visualization approaches. Finally, the book explores current real-world, mission-critical applications of text mining and link detection using real world example*

tutorials in such varied fields as corporate, finance, business intelligence, genomics research, and counterterrorism activities. The world contains an unimaginably vast amount of digital information which is getting ever vaster ever more rapidly. This makes it possible to do many things that previously could not be done: spot business trends, prevent diseases, combat crime and so on. Managed well, the textual data can be used to unlock new sources of economic value, provide fresh insights into science and hold governments to account. As the Internet expands and our natural capacity to process the unstructured text that it contains diminishes, the value of text mining for information retrieval and search will increase dramatically. Extensive case studies, most in a tutorial format, allow the reader to 'click through' the example using a software program, thus learning to conduct text mining analyses in the most rapid manner of learning possible. Numerous examples, tutorials, power points and datasets available via companion website on Elsevierdirect.com. Glossary of text mining terms provided in the appendix.

STATISTICAL ANALYSIS OF DESIGNED EXPERIMENTS

THEORY AND APPLICATIONS

John Wiley & Sons *A indispensable guide to understanding and designing modern experiments. The tools and techniques of Design of Experiments (DOE) allow researchers to successfully collect, analyze, and interpret data across a wide array of disciplines. Statistical Analysis of Designed Experiments provides a modern and balanced treatment of DOE methodology with thorough coverage of the underlying theory and standard designs of experiments, guiding the reader through applications to research in various fields such as engineering, medicine, business, and the social sciences. The book supplies a foundation for the subject, beginning with basic concepts of DOE and a review of elementary normal theory statistical methods. Subsequent chapters present a uniform, model-based approach to DOE. Each design is presented in a comprehensive format and is accompanied by a motivating example, discussion of the applicability of the design, and a model for its analysis using statistical methods such as graphical plots, analysis of variance (ANOVA), confidence intervals, and hypothesis tests. Numerous theoretical and applied exercises are provided in each chapter, and answers to selected exercises are included at the end of the book. An appendix features three case studies that illustrate the challenges often encountered in real-world experiments, such as randomization, unbalanced data, and outliers. Minitab® software is used to perform analyses throughout the book, and an accompanying FTP site houses additional exercises and data sets. With its breadth of real-world examples and accessible treatment of both theory and applications, Statistical Analysis of Designed Experiments is a valuable book for experimental design courses at the upper-undergraduate and graduate levels. It is also an indispensable reference for practicing statisticians, engineers, and scientists who would like to further their knowledge of DOE.*

THE SAGE ENCYCLOPEDIA OF SOCIAL SCIENCE RESEARCH METHODS

SAGE *"The first encyclopedia to cover inclusively both quantitative and qualitative research approaches, this set provides clear explanations of 1,000 methodologies, avoiding mathematical equations when possible with liberal cross-referencing and bibliographies. Each volume includes a list of works cited, and the third contains a comprehensive index and lists of person names, organizations, books, tests, software, major concepts, surveys, and methodologies."--"Reference that rocks," American Libraries, May 2005.*

STATISTICS AND DATA ANALYSIS IN GEOLOGY

This thoroughly revised edition presents important methods in the quantitative analysis of geologic data. Retains the basic arrangement of the previous edition but expands sections on probability, nonparametric statistics, and Fourier analysis. Contains revised coverage of eigenvalues and eigenvectors, and new coverage of data analysis methods, such as the semivariogram and the process of kriging.

MODELING ORDERED CHOICES

A PRIMER

Cambridge University Press *It is increasingly common for analysts to seek out the opinions of individuals and organizations using attitudinal scales such as degree of satisfaction or importance attached to an issue. Examples include levels of obesity, seriousness of a health condition, attitudes towards service levels, opinions on products, voting intentions, and the degree of clarity of contracts. Ordered choice models provide a relevant methodology for capturing the sources of influence that explain the choice made amongst a set of ordered alternatives. The methods have evolved to a level of sophistication that can allow for heterogeneity in the threshold parameters, in the explanatory variables (through random parameters), and in the decomposition of the residual variance. This book brings together contributions in ordered choice modeling from a number of disciplines, synthesizing developments over the last fifty years, and suggests useful extensions to account for the wide range of sources of influence on choice.*

UNDERSTANDING ELECTIONS THROUGH STATISTICS

POLLING, PREDICTION, AND TESTING

CRC Press *Elections are random events. From individuals deciding whether to vote, to people deciding for whom to vote, to election authorities deciding what to count, the outcomes of competitive democratic elections are rarely known until election day...or beyond. Understanding Elections through Statistics: Polling, Prediction, and Testing explores this random phenomenon from two points of view: predicting the election outcome using opinion polls and testing the election outcome using government-reported data. Written for those with only a brief introduction to statistics, this book takes you on a statistical journey from how polls are taken to how they can—and should—be used to estimate current popular opinion. Once an understanding of the election process is built, we turn toward testing elections for evidence of unfairness. While holding elections has become the de facto proof of*

government legitimacy, those electoral processes may hide a dirty little secret of the government illicitly ensuring a favorable election outcome. This book includes these features designed to make your statistical journey more enjoyable: Vignettes of elections, including maps, to provide concrete bases for the material In-chapter cues to help one avoid the heavy math—or to focus on it End-of-chapter problems designed to review and extend that which was covered in the chapter Many opportunities to turn the power of the R statistical environment to the enclosed election data files, as well as to those you find interesting From these features, it is clear the audience for this book is quite diverse. This text provides mathematics for those interested in mathematics, but also offers detours for those who just want a good read and a deeper understanding of elections. Author Ole J. Forsberg holds PhDs in both political science and statistics. He currently teaches mathematics and statistics in the Department of Mathematics at Knox College in Galesburg, IL.

INTERNATIONAL HANDBOOK FOR POLICY RESEARCH ON SCHOOL-BASED COUNSELING

Springer *This handbook examines policy research on school counseling across a wide range of countries and offers guidelines for developing counseling research and practice standards worldwide. It identifies the vital role of counseling in enhancing students' educational performance and general wellbeing, and explores effective methods for conducting policy research, with practical examples. Chapters present the current state of school-based counseling and policy from various countries, focusing on national and regional needs, as well as opportunities for collaboration between advocates and policymakers. By addressing gaps in policy knowledge and counselor training, the Handbook discusses both the diversity of prominent issues and the universality of its major objectives. Topics featured in this handbook include: The use of scoping reviews to document and synthesize current practices in school-based counseling. Contemporary public policy on school-based counseling in Latin America. Policy, capacity building, and school-based counseling in Eastern/Southern Africa. Public policy, policy research, and school counseling in Middle Eastern countries. Policy and policy research on school-based counseling in the United Kingdom. Policy research on school-based counseling in the United States. The International Handbook for Policy Research in School-Based Counseling is a must-have resource for researchers, graduate students, clinicians, and related professionals and practitioners in child and school psychology, educational policy and politics, social work, psychotherapy, and counseling as well as related disciplines.*

DOING BAYESIAN DATA ANALYSIS

A TUTORIAL WITH R, JAGS, AND STAN

Academic Press *Doing Bayesian Data Analysis: A Tutorial with R, JAGS, and Stan, Second Edition provides an accessible approach for conducting Bayesian data analysis, as material is explained clearly with concrete examples. Included are step-by-step instructions on how to carry out Bayesian data analyses in the popular and*

free software R and WinBugs, as well as new programs in JAGS and Stan. The new programs are designed to be much easier to use than the scripts in the first edition. In particular, there are now compact high-level scripts that make it easy to run the programs on your own data sets. The book is divided into three parts and begins with the basics: models, probability, Bayes' rule, and the R programming language. The discussion then moves to the fundamentals applied to inferring a binomial probability, before concluding with chapters on the generalized linear model. Topics include metric-predicted variable on one or two groups; metric-predicted variable with one metric predictor; metric-predicted variable with multiple metric predictors; metric-predicted variable with one nominal predictor; and metric-predicted variable with multiple nominal predictors. The exercises found in the text have explicit purposes and guidelines for accomplishment. This book is intended for first-year graduate students or advanced undergraduates in statistics, data analysis, psychology, cognitive science, social sciences, clinical sciences, and consumer sciences in business. Accessible, including the basics of essential concepts of probability and random sampling Examples with R programming language and JAGS software Comprehensive coverage of all scenarios addressed by non-Bayesian textbooks: t-tests, analysis of variance (ANOVA) and comparisons in ANOVA, multiple regression, and chi-square (contingency table analysis) Coverage of experiment planning R and JAGS computer programming code on website Exercises have explicit purposes and guidelines for accomplishment Provides step-by-step instructions on how to conduct Bayesian data analyses in the popular and free software R and WinBugs

MATHEMATICAL STATISTICS WITH APPLICATIONS

CRC Press Mathematical statistics typically represents one of the most difficult challenges in statistics, particularly for those with more applied, rather than mathematical, interests and backgrounds. Most textbooks on the subject provide little or no review of the advanced calculus topics upon which much of mathematical statistics relies and furthermore contain material that is wholly theoretical, thus presenting even greater challenges to those interested in applying advanced statistics to a specific area. *Mathematical Statistics with Applications* presents the background concepts and builds the technical sophistication needed to move on to more advanced studies in multivariate analysis, decision theory, stochastic processes, or computational statistics. Applications embedded within theoretical discussions clearly demonstrate the utility of the theory in a useful and relevant field of application and allow readers to avoid sudden exposure to purely theoretical materials. With its clear explanations and more than usual emphasis on applications and computation, this text reaches out to the many students and professionals more interested in the practical use of statistics to enrich their work in areas such as communications, computer science, economics, astronomy, and public health.

COCHRANE HANDBOOK FOR SYSTEMATIC REVIEWS OF INTERVENTIONS

Wiley Healthcare providers, consumers, researchers and policy makers are

inundated with unmanageable amounts of information, including evidence from healthcare research. It has become impossible for all to have the time and resources to find, appraise and interpret this evidence and incorporate it into healthcare decisions. Cochrane Reviews respond to this challenge by identifying, appraising and synthesizing research-based evidence and presenting it in a standardized format, published in The Cochrane Library (www.thecochranelibrary.com). The Cochrane Handbook for Systematic Reviews of Interventions contains methodological guidance for the preparation and maintenance of Cochrane intervention reviews. Written in a clear and accessible format, it is the essential manual for all those preparing, maintaining and reading Cochrane reviews. Many of the principles and methods described here are appropriate for systematic reviews applied to other types of research and to systematic reviews of interventions undertaken by others. It is hoped therefore that this book will be invaluable to all those who want to understand the role of systematic reviews, critically appraise published reviews or perform reviews themselves.

THE DATA LIBRARIAN'S HANDBOOK

Facet Publishing *An insider's guide to data librarianship packed full of practical examples and advice for any library and information professional learning to deal with data. Interest in data has been growing in recent years. Support for this peculiar class of digital information – its use, preservation and curation, and how to support researchers' production and consumption of it in ever greater volumes to create new knowledge, is needed more than ever. Many librarians and information professionals are finding their working life is pulling them toward data support or research data management but lack the skills required. The Data Librarian's Handbook, written by two data librarians with over 30 years' combined experience, unpicks the everyday role of the data librarian and offers practical guidance on how to collect, curate and crunch data for economic, social and scientific purposes. With contemporary case studies from a range of institutions and disciplines, tips for best practice, study aids and links to key resources, this book is a must-read for all new entrants to the field, library and information students and working professionals. Key topics covered include:*

- the evolution of data libraries and data archives
- handling data compared to other forms of information
- managing and curating data to ensure effective use and longevity
- how to incorporate data literacy into mainstream library instruction and information literacy training
- how to develop an effective institutional research data management (RDM) policy and infrastructure
- how to support and review a data management plan (DMP) for a project, a key requirement for most research funders
- approaches for developing, managing and promoting data repositories
- handling and sharing confidential or sensitive data
- supporting open scholarship and open science, ensuring data are discoverable, accessible, intelligible and assessable.

This title is for the practising data librarian, possibly new in their post with little experience of providing data support. It is also for managers and policy-makers, public service librarians, research data management coordinators and data support staff. It will also appeal to students and lecturers in iSchools and other library and information degree programmes where academic research support is

taught.

EQUIVALENCE

ELIZABETH L. SCOTT AT BERKELEY

CRC Press *Equivalence: Elizabeth L. Scott at Berkeley* is the compelling story of one pioneering statistician's relentless twenty-year effort to promote the status of women in academe and science. Part biography and part microhistory, the book provides the context and background to understand Scott's masterfulness at using statistics to help solve societal problems. In addition to being one of the first researchers to work at the interface of astronomy and statistics and an early practitioner of statistics using high-speed computers, Scott worked on an impressively broad range of questions in science, from whether cloud seeding actually works to whether ozone depletion causes skin cancer. Later in her career, Scott became swept up in the academic women's movement. She used her well-developed scientific research skills together with the advocacy skills she had honed, in such activities as raising funds for Martin Luther King Jr. and keeping Free Speech Movement students out of jail, toward policy making that would improve the condition of the academic workforce for women. The book invites the reader into Scott's universe, a window of inspiration made possible by the fact that she saved and dated every piece of paper that came across her desk.

HANDBOOK OF STATISTICAL ANALYSIS AND DATA MINING APPLICATIONS

Elsevier *Handbook of Statistical Analysis and Data Mining Applications, Second Edition*, is a comprehensive professional reference book that guides business analysts, scientists, engineers and researchers, both academic and industrial, through all stages of data analysis, model building and implementation. The handbook helps users discern technical and business problems, understand the strengths and weaknesses of modern data mining algorithms and employ the right statistical methods for practical application. This book is an ideal reference for users who want to address massive and complex datasets with novel statistical approaches and be able to objectively evaluate analyses and solutions. It has clear, intuitive explanations of the principles and tools for solving problems using modern analytic techniques and discusses their application to real problems in ways accessible and beneficial to practitioners across several areas—from science and engineering, to medicine, academia and commerce. Includes input by practitioners Includes tutorials in numerous fields of study that provide step-by-step instruction on how to use supplied tools to build models Contains practical advice from successful real-world implementations Brings together, in a single resource, all the information a beginner needs to understand the tools and issues in data mining to build successful data mining solutions Features clear, intuitive explanations of novel analytical tools and techniques, and their practical applications

MATHEMATICAL-STATISTICAL MODELS AND QUALITATIVE THEORIES FOR ECONOMIC AND SOCIAL SCIENCES

Springer *This book presents a broad spectrum of problems related to statistics, mathematics, teaching, social science, and economics as well as a range of tools and techniques that can be used to solve these problems. It is the result of a scientific collaboration between experts in the field of economic and social systems from the University of Defence in Brno (Czech Republic), G. d'Annunzio University of Chieti-Pescara (Italy), Pablo de Olavid eUniversity of Sevilla (Spain), and Ovidius University in Constanța, (Romania). The studies included were selected using a peer-review process and reflect heterogeneity and complexity of economic and social phenomena. They and present interesting empirical research from around the globe and from several research fields, such as statistics, decision making, mathematics, complexity, psychology, sociology and economics. The volume is divided into two parts. The first part, "Recent trends in mathematical and statistical models for economic and social sciences", collects papers on quantitative matters, which propose mathematical and statistical models for social sciences, economics, finance, and business administration. The second part, "Recent trends in qualitative theories for economic and social sciences", includes papers on qualitative matters, which discuss social, economic, and teaching issues. It is an ideal reference work for all those researchers interested in recent quantitative and qualitative tools. Covering a wide range of topics, it appeals in equal measure to mathematicians, statisticians, sociologists, philosophers, and specialists in the fields of communication, social and political sciences.*

MAKING SENSE OF FACTOR ANALYSIS

THE USE OF FACTOR ANALYSIS FOR INSTRUMENT DEVELOPMENT IN HEALTH CARE RESEARCH

SAGE *Making Sense of Factor Analysis: The Use of Factor Analysis for Instrument Development in Health Care Research* presents a straightforward explanation of the complex statistical procedures involved in factor analysis. Authors Marjorie A. Pett, Nancy M. Lackey, and John J. Sullivan provide a step-by-step approach to analyzing data using statistical computer packages like SPSS and SAS. Emphasizing the interrelationship between factor analysis and test construction, the authors examine numerous practical and theoretical decisions that must be made to efficiently run and accurately interpret the outcomes of these sophisticated computer programs.

ETRUST

FORMING RELATIONSHIPS IN THE ONLINE WORLD

Russell Sage Foundation *There is one thing that moves online consumers to click "add to cart," that allows sellers to accept certain forms of online payment, and that makes online product reviews meaningful: trust. Without trust, online interactions can't advance. But how is trust among strangers established on the Internet? What role does reputation play in the formation of online trust? In eTrust, editors Karen*

Cook, Chris Snijders, Vincent Buskens, and Coye Cheshire explore the unmapped territory where trust, reputation, and online relationships intersect, with major implications for online commerce and social networking. *eTrust* uses experimental studies and field research to examine how trust in anonymous online exchanges can create or diminish cooperation between people. The first part of the volume looks at how feedback affects online auctions using trust experiments. Gary Bolton and Axel Ockenfels find that the availability of feedback leads to more trust among one-time buyers, while Davide Barrera and Vincent Buskens demonstrate that, in investment transactions, the buyer's own experience guides decision making about future transactions with sellers. The field studies in Part II of the book examine the degree to which reputation facilitates trust in online exchanges. Andreas Diekmann, Ben Jann, and David Wyder identify a "reputation premium" in mobile phone auctions, which not only drives future transactions between buyers and sellers but also payment modes and starting bids. Chris Snijders and Jeroen Weesie shift focus to the market for online programmers, where tough competition among programmers allows buyers to shop around. The book's third section reveals how the quality and quantity of available information influences actual marketplace participants. Sonja Utz finds that even when unforeseen accidents hinder transactions—lost packages, computer crashes—the seller is still less likely to overcome repercussions from the negative feedback of dissatisfied buyers. So much of our lives are becoming enmeshed with the Internet, where ordinary social cues and reputational networks that support trust in the real world simply don't apply. *eTrust* breaks new ground by articulating the conditions under which trust can evolve and grow online, providing both theoretical and practical insights for anyone interested in how online relationships influence our decisions. A Volume in the Russell Sage Foundation Series on Trust

ENVIRONMENTAL ECONOMICS AND COMPUTABLE GENERAL EQUILIBRIUM ANALYSIS

ESSAYS IN MEMORY OF YUZURU MIYATA

Springer Nature This book addresses major issues such as a growing world energy demand, environmental degradation due to anthropogenic greenhouse gas (GHG) emission, and risk management of disastrous events such as pandemics, abnormal climate, and earthquakes. Using cutting-edge analytical tools, particularly computable general equilibrium (CGE) modelling, the analyses are focused on a very wide range of policy-relevant economic questions for the Asia-Pacific region, especially for Japan, China, India, Vietnam, and smaller nations, including Brunei, Timor Leste, and Fiji. The first part considers (a) the effects of climate change on agriculture sectors, energy policies, and future GHG emission trends, (b) adaptation to climate changes in energy policy and its impacts on the economies, and (c) risk management of catastrophic events such as global pandemics. The second part examines (a) energy environmental issues, (b) economic impacts of natural disaster and depopulation, and (c) effects of informatics development on risk management, using CGE modelling and other methods in regional science fields. Contributors are internationally active leading CGE modellers and environmental economists. The

book should be greatly beneficial for scholars and graduate students as well as policy makers who are interested in the economic effects and management of risks relating to climate change and disastrous events.

PUBLIC HEALTH REPORTS

MARINE OIL SPILLS 2018

MDPI *The mitigation of oil spills is an important facet of environmental protection. Understanding oil spills is a first step toward preventing and minimizing their damage to the environment. This compilation presents several of the current studies related to such an understanding of oil spills and the environment. This book is a compilation of 14 papers presenting new developments in the field of oil spills, giving insight into the rapidly changing world of oil spill studies and technology. The 14 papers included cover topics varying from risk analysis to oil spill remote sensing. Broadly categorized, included are six papers on modeling, four papers on remote sensing, three papers on risk assessment, and one paper on oil spill countermeasures. Each paper presents a unique insight into a facet of oil spill research and technology. The authors of these papers represent many different countries and affiliations around the world.*

SEMIPARAMETRIC REGRESSION WITH R

Springer *This easy-to-follow applied book on semiparametric regression methods using R is intended to close the gap between the available methodology and its use in practice. Semiparametric regression has a large literature but much of it is geared towards data analysts who have advanced knowledge of statistical methods. While R now has a great deal of semiparametric regression functionality, many of these developments have not trickled down to rank-and-file statistical analysts. The authors assemble a broad range of semiparametric regression R analyses and put them in a form that is useful for applied researchers. There are chapters devoted to penalized splines, generalized additive models, grouped data, bivariate extensions of penalized splines, and spatial semi-parametric regression models. Where feasible, the R code is provided in the text, however the book is also accompanied by an external website complete with datasets and R code. Because of its flexibility, semiparametric regression has proven to be of great value with many applications in fields as diverse as astronomy, biology, medicine, economics, and finance. This book is intended for applied statistical analysts who have some familiarity with R.*

PRACTICAL FIELD ECOLOGY

A PROJECT GUIDE

John Wiley & Sons *Offers a comprehensive, accessible introduction to experimental design, field monitoring skills for plants and animals, data analysis, interpretation and reporting This user-friendly book presents field monitoring skills for both plants and animals, within the context of a research project. This text provides a single resource to take the reader all the way through from the planning stage, into the field, guiding through sampling, organism identification, computer-*

based data analysis and interpretation, and finally how to present the results to maximise the impact of the work. Logically structured throughout, and revised extensively in the second edition, the book concentrates on the techniques required to design a field-based ecological survey and shows how to execute an appropriate sampling regime. It evaluates appropriate sampling and analytical methods, identifying potential problems associated with various techniques and how to mitigate these. The second edition of this popular text has updated reference material and weblinks, increased the number of case studies by 50% to illustrate the use of specific techniques in the field, added over 20% more figures (including 8 colour plates), and made more extensive use of footnotes to provide extra details. Extensions to topics covered in the first edition include additional discussion of: ethical issues; statistical methods (sample size estimation, use of the statistical package R, mixed models); bioindicators, especially for freshwater pollution; seeds, fecundity and population dynamics including static and dynamic life tables; forestry techniques including tree coring and tree mortality calculations; the use of data repositories; writing for a journal and producing poster and oral presentations. In addition, the use of new and emerging technologies has been a particular focus, including mobile apps for environmental monitoring and identification; land cover and GIS; the use of drones including legal frameworks and codes of practice; molecular field techniques including DNA analysis in the field (including eDNA); photo-matching for identifying individuals; camera trapping; modern techniques for detecting and analysing bat echolocation calls; and data storage using the cloud. Divided into six distinct chapters, *Practical Field Ecology, 2nd Edition* begins at project inception with a chapter on planning—covering health and safety, along with guidance on how to ensure that the sampling and experimental design is suitable for subsequent statistical analysis. Following a chapter dealing with site characterisation and general aspects of species identification, subsequent chapters describe the techniques used to survey and census particular groups of organisms. The final chapters cover analysing, interpreting and presenting data, and writing up the research. Offers a readable and approachable integrated guide devoted to field-based research projects Takes students from the planning stage, into the field, and clearly guides them through organism identification in the laboratory and computer-based data analysis, interpretation and data presentation Includes a chapter on how to write project reports and present findings in a variety of formats to differing audiences Aimed at undergraduates taking courses in Ecology, Biology, Geography, and Environmental Science, *Practical Field Ecology, 2nd Edition* will also benefit postgraduates seeking to support their projects.

INTRODUCTORY BIOLOGICAL STATISTICS

FOURTH EDITION

Waveland Press A thorough understanding of biology, no matter which subfield, requires a thorough understanding of statistics. As in previous editions, Havel and Hampton (with new co-author Scott Meiners) ground students in all essential methods of descriptive and inferential statistics, using examples from different biological sciences. The authors have retained the readable, accessible writing style

popular with both students and instructors. Pedagogical improvements new to this edition include concept checks in all chapters to assist students in active learning and code samples showing how to solve many of the book's examples using R. Each chapter features numerous practice and homework exercises, with larger data sets available for download at waveland.com.

UTILITY AND APPLICATION OF LANGUAGE CORPORA

Springer *This book discusses some of the basic issues relating to corpus generation and the methods normally used to generate a corpus. Since corpus-related research goes beyond corpus generation, the book also addresses other major topics connected with the use and application of language corpora, namely, corpus readiness in the context of corpus sanitation and pre-editing of corpus texts; the application of statistical methods; and various text processing techniques. Importantly, it explores how corpora can be used as a primary or secondary resource in English language teaching, in creating dictionaries, in word sense disambiguation, in various language technologies, and in other branches of linguistics. Lastly, the book sheds light on the status quo of corpus generation in Indian languages and identifies current and future needs. Discussing various technical issues in the field in a lucid manner, providing extensive new diagrams and charts for easy comprehension, and using simplified English, the book is an ideal resource for non-native English readers. Written by academics with many years of experience teaching and researching corpus linguistics, its focus on Indian languages and on English corpora makes it applicable to graduate and postgraduate students of applied linguistics, computational linguistics and language processing in South Asia and across countries where English is spoken as a first or second language.*