

Quantitative Methods for Current Environmental Issues

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Springer



Quantitative Methods For Current Environmental Issues

Gavin Shaddick, James V. Zidek



Quantitative Methods For Current Environmental Issues:

Quantitative Methods for Current Environmental Issues Clive W. Anderson, Vic Barnett, Philip C. Chatwin, Abdel H. El-Shaarawi, 2012-12-06 It is increasingly clear that good quantitative work in the environmental sciences must be genuinely interdisciplinary This volume the proceedings of the first combined TIES SPRUCE conference held at the University of Sheffield in September 2000 well demonstrates the truth of this assertion highlighting the successful use of both statistics and mathematics in important practical problems It brings together distinguished scientists and engineers to present the most up to date and practical methods for quantitative measurement and prediction and is organised around four themes spatial and temporal models and methods environmental sampling and standards atmosphere and ocean risk and uncertainty *Quantitative Methods for Current Environmental Issues* is an invaluable resource for statisticians applied mathematicians and researchers working on environmental problems and for those in government agencies and research institutes involved in the analysis of environmental issues *Environmental Statistics* Vic Barnett, 2005-12-13 In modern society we are ever more aware of the environmental issues we face whether these relate to global warming depletion of rivers and oceans despoliation of forests pollution of land poor air quality environmental health issues etc At the most fundamental level it is necessary to monitor what is happening in the environment collecting data to describe the changing scene More importantly it is crucial to formally describe the environment with sound and validated models and to analyse and interpret the data we obtain in order to take action *Environmental Statistics* provides a broad overview of the statistical methodology used in the study of the environment written in an accessible style by a leading authority on the subject It serves as both a textbook for students of environmental statistics as well as a comprehensive source of reference for anyone working in statistical investigation of environmental issues Provides broad coverage of the methodology used in the statistical investigation of environmental issues Covers a wide range of key topics including sampling methods for extreme data outliers and robustness relationship models and methods time series spatial analysis and environmental standards Includes many detailed practical and worked examples that illustrate the applications of statistical methods in environmental issues Authored by a leading authority on environmental statistics *Techniques and Methods in Urban Remote Sensing* Qihao Weng, 2019-10-31 An authoritative guide to the essential techniques and most recent advances in urban remote sensing *Techniques and Methods in Urban Remote Sensing* offers a comprehensive guide to the recent theories methods techniques and applications in urban remote sensing Written by a noted expert on the subject this book explores the requirements for mapping impervious surfaces and examines the issue of scale The book covers a range of topics and includes illustrative examples of commonly used methods for estimating and mapping urban impervious surfaces explains how to determine urban thermal landscape and surface energy balance and offers information on impacts of urbanization on land surface temperature water quality and environmental health *Techniques and Methods in Urban Remote Sensing* brings together in one volume the latest

opportunities for combining ever increasing computational power more plentiful and capable data and more advanced algorithms This allows the technologies of remote sensing and GIS to become mature and to gain wider and better applications in environments ecosystems resources geosciences geography and urban studies This important book Contains a comprehensive resource to the latest developments in urban remote sensing Explains urban heat islands modeling and analysis Includes information on estimating urban surface energy fluxes Offers a guide to generating data on land surface temperature Written for professionals and students of environmental ecological civic and urban studies Techniques and Methods in Urban Remote Sensing meets the demand for an updated resource that addresses the recent advances urban remote sensing

Spatio-Temporal Methods in Environmental Epidemiology Gavin Shaddick,James V. Zidek,2015-06-17 Teaches Students How to Perform Spatio Temporal Analyses within Epidemiological StudiesSpatio Temporal Methods in Environmental Epidemiology is the first book of its kind to specifically address the interface between environmental epidemiology and spatio temporal modeling In response to the growing need for collaboration between statisticians and

Advances in Contemporary Statistics and Econometrics Abdelaati Daouia,Anne Ruiz-Gazen,2021-06-14 This book presents a unique collection of contributions on modern topics in statistics and econometrics written by leading experts in the respective disciplines and their intersections It addresses nonparametric statistics and econometrics quantiles and expectiles and advanced methods for complex data including spatial and compositional data as well as tools for empirical studies in economics and the social sciences The book was written in honor of Christine Thomas Agnan on the occasion of her 65th birthday Given its scope it will appeal to researchers and PhD students in statistics and econometrics alike who are interested in the latest developments in their field

Managing Arsenic in the Environment Ravi Naidu,Euan Smith,Gary Owens,Prosun Bhattacharya,2006-02-07 Arsenic is one of the most toxic and carcinogenic elements in the environment This book brings together the current knowledge on arsenic contamination worldwide reviewing the field highlighting common themes and pointing to key areas needing future research Contributions discuss methods for accurate identification and quantification of individual arsenic species in a range of environmental and biological matrices and give an overview of the environmental chemistry of arsenic Next chapters deal with the dynamics of arsenic in groundwater and aspects of arsenic in soils and plants including plant uptake studies effects on crop quality and yield and the corresponding food chain and human health issues associated with these exposure pathways These concerns are coupled with the challenge to develop efficient cost effective risk management and remediation strategies recent technological advances are described and assessed including the use of adsorbants photo oxidation bioremediation and electrokinetic remediation The book concludes with eleven detailed regional perspectives of the extent and severity of arsenic contamination from around the world It will be invaluable for arsenic researchers as well as environmental scientists and environmental chemists toxicologists medical scientists and statutory authorities seeking an in depth view of the issues surrounding this toxin

Handbook of Big Geospatial Data Martin Werner, Yao-Yi Chiang, 2021-05-07 This handbook covers a wide range of topics related to the collection processing analysis and use of geospatial data in their various forms This handbook provides an overview of how spatial computing technologies for big data can be organized and implemented to solve real world problems Diverse subdomains ranging from indoor mapping and navigation over trajectory computing to earth observation from space are also present in this handbook It combines fundamental contributions focusing on spatio textual analysis uncertain databases and spatial statistics with application examples such as road network detection or colocation detection using GPUs In summary this handbook gives an essential introduction and overview of the rich field of spatial information science and big geospatial data It introduces three different perspectives which together define the field of big geospatial data a societal governmental and governance perspective It discusses questions of how the acquisition distribution and exploitation of big geospatial data must be organized both on the scale of companies and countries A second perspective is a theory oriented set of contributions on arbitrary spatial data with contributions introducing into the exciting field of spatial statistics or into uncertain databases A third perspective is taking a very practical perspective to big geospatial data ranging from chapters that describe how big geospatial data infrastructures can be implemented and how specific applications can be implemented on top of big geospatial data This would include for example research in historic map data road network extraction damage estimation from remote sensing imagery or the analysis of spatio textual collections and social media This multi disciplinary approach makes the book unique This handbook can be used as a reference for undergraduate students graduate students and researchers focused on big geospatial data Professionals can use this book as well as practitioners facing big collections of geospatial data

Understanding Cancer Prevention through Geospatial Science Trevor Dummer, 2024-09-27 The worldwide cancer burden will double over the next two decades with the number of new cancer diagnoses increasing in all regions of the world However it is estimated that around 40% of all cancers are preventable through the appropriate application of existing epidemiological and public health knowledge and with further research this proportion will increase considerably This edited volume explores the role of place in cancer prevention and how geospatial tools can be used to support this globally important goal Its chapters detail many aspects of the application of geospatial science to cancer control including quantifying exposure to environmental carcinogens access to screening services the importance of partnership building and more through a variety of geographically diverse case studies The book also offers background on geospatial modeling tools and methods for adding spatial analysis to cancer surveillance systems The book is rooted firmly in the notion that geography significantly influences the accumulation of cancer risks at the individual and community level that are modifiable through policy regulatory and behavioral changes The landscape of cancer prevention is vast encompassing the building blocks of population and public health i e epidemiology and causation through risk factor modifications behavior and policy change to the interface of the cellular with society including epigenetic modifications and

gene environment interactions cancer genomics and precision medicine health It is clear that geography space place setting context is central to all these activities Geospatial methods and data support risk factor identification can elucidate the interaction between individual behavioral demographic and genetic factors with community level contextual factors and can be used to prioritize interventions more accurately towards at risk people and at risk population groups Geography is also central to the organization of health services and hence by definition is fundamental to the organization of preventative services More broadly adopting a geographical approach can help move cancer prevention beyond a narrow medical definition of health to tackle the upstream and structural determinants of cancer

Computational Intelligent Data Analysis for Sustainable Development Ting Yu, Nitesh Chawla, Simeon Simoff, 2016-04-19

Going beyond performing simple analyses researchers involved in the highly dynamic field of computational intelligent data analysis design algorithms that solve increasingly complex data problems in changing environments including economic environmental and social data

Computational Intelligent Data Analysis for Sustainable Development presents novel methodologies for automatically processing these types of data to support rational decision making for sustainable development Through numerous case studies and applications it illustrates important data analysis methods including mathematical optimization machine learning signal processing and temporal and spatial analysis for quantifying and describing sustainable development problems With a focus on integrated sustainability analysis the book presents a large scale quadratic programming algorithm to expand high resolution input output tables from the national scale to the multinational scale to measure the carbon footprint of the entire trade supply chain It also quantifies the error or dispersion between different reclassification and aggregation schemas revealing that aggregation errors have a high concentration over specific regions and sectors The book summarizes the latest contributions of the data analysis community to climate change research A profuse amount of climate data of various types is available providing a rich and fertile playground for future data mining and machine learning research The book also pays special attention to several critical challenges in the science of climate extremes that are not handled by the current generation of climate models It discusses potential conceptual and methodological directions to build a close integration between physical understanding or physics based modeling and data driven insights The book then covers the conservation of species and ecologically valuable land A case study on the Pennsylvania Dirt and Gravel Roads Program demonstrates that multiple objective linear programming is a more versatile and efficient approach than the widely used benefit targeting selection process Moving on to renewable energy and the need for smart grids the book explores how the ongoing transformation to a sustainable energy system of renewable sources leads to a paradigm shift from demand driven generation to generation driven demand It shows how to maximize renewable energy as electricity by building a supergrid or mixing renewable sources with demand management and storage It also presents intelligent data analysis for real time detection of disruptive events from power system frequency data collected using an existing Internet based frequency

monitoring network as well as evaluates a set of computationally intelligent techniques for long term wind resource assessment In addition the book gives an example of how temporal and spatial data analysis tools are used to gather knowledge about behavioral data and address important social problems such as criminal offenses It also applies constraint logic programming to a planning problem the environmental and social impact assessment of the regional energy plan of the Emilia Romagna region of Italy Sustainable development problems such as global warming resource shortages global species loss and pollution push researchers to create powerful data analysis approaches that analysts can then use to gain insight into these issues to support rational decision making This volume shows both the data analysis and sustainable development communities how to use intelligent data analysis tools to address practical problems and encourages researchers to develop better methods

Handbook of Mathematical Geosciences B.S. Daya Sagar,Qiuming Cheng,Frits Agterberg,2018-06-25 This Open Access handbook published at the IAMG s 50th anniversary presents a compilation of invited path breaking research contributions by award winning geoscientists who have been instrumental in shaping the IAMG It contains 45 chapters that are categorized broadly into five parts i theory ii general applications iii exploration and resource estimation iv reviews and v reminiscences covering related topics like mathematical geosciences mathematical morphology geostatistics fractals and multifractals spatial statistics multipoint geostatistics compositional data analysis informatics geocomputation numerical methods and chaos theory in the geosciences

Hierarchical Modeling and Analysis for Spatial Data Sudipto Banerjee,2003-12-17 Among the many uses of hierarchical modeling their application to the statistical analysis of spatial and spatio temporal data from areas such as epidemiology And environmental science has proven particularly fruitful Yet to date the few books that address the subject have been either too narrowly focused on specific aspects of spatial analysis

Industrial Data Analytics for Diagnosis and Prognosis Shiyu Zhou,Yong Chen,2021-08-31 Discover data analytics methodologies for the diagnosis and prognosis of industrial systems under a unified random effects model In *Industrial Data Analytics for Diagnosis and Prognosis A Random Effects Modelling Approach* distinguished engineers Shiyu Zhou and Yong Chen deliver a rigorous and practical introduction to the random effects modeling approach for industrial system diagnosis and prognosis In the book s two parts general statistical concepts and useful theory are described and explained as are industrial diagnosis and prognosis methods The accomplished authors describe and model fixed effects random effects and variation in univariate and multivariate datasets and cover the application of the random effects approach to diagnosis of variation sources in industrial processes They offer a detailed performance comparison of different diagnosis methods before moving on to the application of the random effects approach to failure prognosis in industrial processes and systems In addition to presenting the joint prognosis model which integrates the survival regression model with the mixed effects regression model the book also offers readers A thorough introduction to describing variation of industrial data including univariate and multivariate random variables and probability distributions Rigorous treatments of the diagnosis of variation

sources using PCA pattern matching and the random effects model An exploration of extended mixed effects model including mixture prior and Kalman filtering approach for real time prognosis A detailed presentation of Gaussian process model as a flexible approach for the prediction of temporal degradation signals Ideal for senior year undergraduate students and postgraduate students in industrial manufacturing mechanical and electrical engineering Industrial Data Analytics for Diagnosis and Prognosis is also an indispensable guide for researchers and engineers interested in data analytics methods for system diagnosis and prognosis

Model-based Geostatistics Peter Diggle, Paulo Justiniano Ribeiro, 2007-05-26 This volume is the first book length treatment of model based geostatistics The text is expository emphasizing statistical methods and applications rather than the underlying mathematical theory Analyses of datasets from a range of scientific contexts feature prominently and simulations are used to illustrate theoretical results Readers can reproduce most of the computational results in the book by using the authors software package geoR whose usage is illustrated in a computation section at the end of each chapter The book assumes a working knowledge of classical and Bayesian methods of inference linear models and generalized linear models

Bayesian Biostatistics Emmanuel Lesaffre, Andrew B. Lawson, 2012-08-13 The growth of biostatistics has been phenomenal in recent years and has been marked by considerable technical innovation in both methodology and computational practicality One area that has experienced significant growth is Bayesian methods The growing use of Bayesian methodology has taken place partly due to an increasing number of practitioners valuing the Bayesian paradigm as matching that of scientific discovery In addition computational advances have allowed for more complex models to be fitted routinely to realistic data sets Through examples exercises and a combination of introductory and more advanced chapters this book provides an invaluable understanding of the complex world of biomedical statistics illustrated via a diverse range of applications taken from epidemiology exploratory clinical studies health promotion studies image analysis and clinical trials Key Features Provides an authoritative account of Bayesian methodology from its most basic elements to its practical implementation with an emphasis on healthcare techniques Contains introductory explanations of Bayesian principles common to all areas of application Presents clear and concise examples in biostatistics applications such as clinical trials longitudinal studies bioassay survival image analysis and bioinformatics Illustrated throughout with examples using software including WinBUGS OpenBUGS SAS and various dedicated R programs Highlights the differences between the Bayesian and classical approaches Supported by an accompanying website hosting free software and case study guides Bayesian Biostatistics introduces the reader smoothly into the Bayesian statistical methods with chapters that gradually increase in level of complexity Master students in biostatistics applied statisticians and all researchers with a good background in classical statistics who have interest in Bayesian methods will find this book useful

Hierarchical Modeling and Analysis for Spatial Data, Second Edition Sudipto Banerjee, Bradley P. Carlin, Alan E. Gelfand, 2014-09-12 Keep Up to Date with the Evolving Landscape of Space and Space Time Data Analysis and Modeling Since the publication of the first

edition the statistical landscape has substantially changed for analyzing space and space time data More than twice the size of its predecessor Hierarchical Modeling and Analysis for Spatial Data Second Edition reflects the major growth in spatial statistics as both a research area and an area of application New to the Second Edition New chapter on spatial point patterns developed primarily from a modeling perspective New chapter on big data that shows how the predictive process handles reasonably large datasets New chapter on spatial and spatiotemporal gradient modeling that incorporates recent developments in spatial boundary analysis and wombling New chapter on the theoretical aspects of geostatistical point referenced modeling Greatly expanded chapters on methods for multivariate and spatiotemporal modeling New special topics sections on data fusion assimilation and spatial analysis for data on extremes Double the number of exercises Many more color figures integrated throughout the text Updated computational aspects including the latest version of WinBUGS the new flexible spBayes software and assorted R packages The Only Comprehensive Treatment of the Theory Methods and Software This second edition continues to provide a complete treatment of the theory methods and application of hierarchical modeling for spatial and spatiotemporal data It tackles current challenges in handling this type of data with increased emphasis on observational data big data and the upsurge of associated software tools The authors also explore important application domains including environmental science forestry public health and real estate

Using R for Bayesian Spatial and Spatio-Temporal Health Modeling Andrew B. Lawson, 2021-04-28 Progressively more and more attention has been paid to how location affects health outcomes The area of disease mapping focusses on these problems and the Bayesian paradigm has a major role to play in the understanding of the complex interplay of context and individual predisposition in such studies of disease Using R for Bayesian Spatial and Spatio Temporal Health Modeling provides a major resource for those interested in applying Bayesian methodology in small area health data studies Features Review of R graphics relevant to spatial health data Overview of Bayesian methods and Bayesian hierarchical modeling as applied to spatial data Bayesian Computation and goodness of fit Review of basic Bayesian disease mapping models Spatio temporal modeling with MCMC and INLA Special topics include multivariate models survival analysis missing data measurement error variable selection individual event modeling and infectious disease modeling Software for fitting models based on BRugs Nimble CARBayes and INLA Provides code relevant to fitting all examples throughout the book at a supplementary website The book fills a void in the literature and available software providing a crucial link for students and professionals alike to engage in the analysis of spatial and spatio temporal health data from a Bayesian perspective using R The book emphasizes the use of MCMC via Nimble BRugs and CARBayes but also includes INLA for comparative purposes In addition a wide range of packages useful in the analysis of geo referenced spatial data are employed and code is provided It will likely become a key reference for researchers and students from biostatistics epidemiology public health and environmental science

Bayesian Disease Mapping Andrew B. Lawson, 2018-05-20 Since the publication of the second edition many new Bayesian tools and methods

have been developed for space time data analysis the predictive modeling of health outcomes and other spatial biostatistical areas Exploring these new developments Bayesian Disease Mapping Hierarchical Modeling in Spatial Epidemiology Third Edition provides an up to date cohesive account of the full range of Bayesian disease mapping methods and applications In addition to the new material the book also covers more conventional areas such as relative risk estimation clustering spatial survival analysis and longitudinal analysis After an introduction to Bayesian inference computation and model assessment the text focuses on important themes including disease map reconstruction cluster detection regression and ecological analysis putative hazard modeling analysis of multiple scales and multiple diseases spatial survival and longitudinal studies spatiotemporal methods and map surveillance It shows how Bayesian disease mapping can yield significant insights into georeferenced health data The target audience for this text is public health specialists epidemiologists and biostatisticians who need to work with geo referenced health data Geostatistics Jean-Paul Chilès, Pierre Delfiner, 2012-03-26 Praise for the First Edition a readable comprehensive volume that belongs on the desk close at hand of any serious researcher or practitioner Mathematical Geosciences The state of the art in geostatistics Geostatistical models and techniques such as kriging and stochastic multi realizations exploit spatial correlations to evaluate natural resources help optimize their development and address environmental issues related to air and water quality soil pollution and forestry Geostatistics Modeling Spatial Uncertainty Second Edition presents a comprehensive up to date reference on the topic now featuring the latest developments in the field The authors explain both the theory and applications of geostatistics through a unified treatment that emphasizes methodology Key topics that are the foundation of geostatistics are explored in depth including stationary and nonstationary models linear and nonlinear methods change of support multivariate approaches and conditional simulations The Second Edition highlights the growing number of applications of geostatistical methods and discusses three key areas of growth in the field New results and methods including kriging very large datasets kriging with outliers nonseparable space time covariances multipoint simulations pluri gaussian simulations gradual deformation and extreme value geostatistics Newly formed connections between geostatistics and other approaches such as radial basis functions Gaussian Markov random fields and data assimilation New perspectives on topics such as collocated cokriging kriging with an external drift discrete Gaussian change of support models and simulation algorithms Geostatistics Second Edition is an excellent book for courses on the topic at the graduate level It also serves as an invaluable reference for earth scientists mining and petroleum engineers geophysicists and environmental statisticians who collect and analyze data in their everyday work **Cornerstones of Impact Management** Anne-Maree Dowd, Thomas Keenan, Kathryn Graham, 2025-03-03 Cornerstones of Impact Management is a comprehensive and practical guide to all aspects of impact management It provides insights and expertise from leading practitioners from around the world who have decades of experience in starting impact management processes from scratch shifting cultures developing systems and processes and establishing leading edge

practices It explores planning implementing scaling and assessing impact interventions particularly within research and innovation and policy contexts Whether you re a seasoned impact practitioner or just starting your journey Cornerstones of Impact Management is the definitive resource for understanding and optimising the impact contribution of your project team organisation or broader system of operation It provides invaluable insights for researchers and research managers policy makers evaluators knowledge mobilisers and quality improvement practitioners

Spatial and Spatio-Temporal Geostatistical Modeling and Kriging José-María Montero,Gema Fernández-Avilés,Jorge Mateu,2015-08-17 Statistical Methods for Spatial and Spatio Temporal Data Analysis provides a complete range of spatio temporal covariance functions and discusses ways of constructing them This book is a unified approach to modeling spatial and spatio temporal data together with significant developments in statistical methodology with applications in R This book includes Methods for selecting valid covariance functions from the empirical counterparts that overcome the existing limitations of the traditional methods The most innovative developments in the different steps of the kriging process An up to date account of strategies for dealing with data evolving in space and time An accompanying website featuring R code and examples

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