Handbook of Spatial Point-Pattern Analysis in Ecology

Thorsten Wiegand
Kirk A. Moloney

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G Orfield

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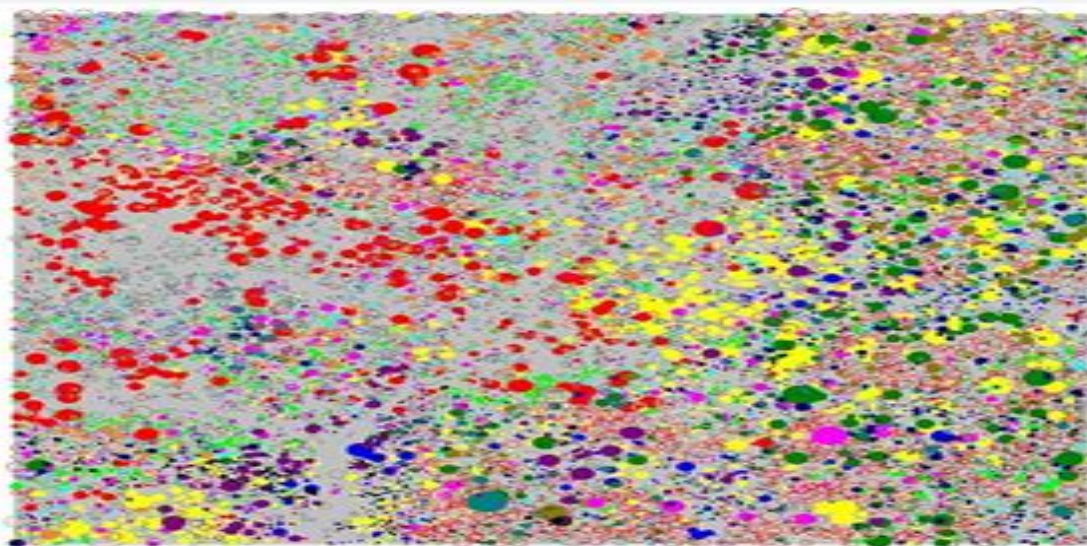
Handbook of Spatial Point-Pattern Analysis in Ecology Thorsten Wiegand,Kirk A. Moloney,2013-12-20 This handbook shows how the techniques of point pattern analysis are useful for tackling ecological problems Within an ecological framework it guides readers through a variety of methods for different data types and aids in the interpretation of the results obtained by point pattern analysis Along with the techniques the book provides a comprehensive selection of real world examples Most of the examples are analyzed using the authors software package Programita The software and a manual are available online **Spatial Linear Models for Environmental Data** Dale L. Zimmerman,Jay M. Ver Hoef,2024-04-17 Many applied researchers equate spatial statistics with prediction or mapping but this book naturally extends linear models which includes regression and ANOVA as pillars of applied statistics to achieve a more comprehensive treatment of the analysis of spatially autocorrelated data Spatial Linear Models for Environmental Data aimed at students and professionals with a master s level training in statistics presents a unique applied and thorough treatment of spatial linear models within a statistics framework Two subfields one called geostatistics and the other called areal or lattice models are extensively covered Zimmerman and Ver Hoef present topics clearly using many examples and simulation studies to illustrate ideas By mimicking their examples and R code readers will be able to fit spatial linear models to their data and draw proper scientific conclusions Topics covered include Exploratory methods for spatial data including outlier detection semi variograms Moran s I and Geary s c Ordinary and generalized least squares regression methods and their application to spatial data Suitable parametric models for the mean and covariance structure of geostatistical and areal data Model fitting including inference methods for explanatory variables and likelihood based methods for covariance parameters Practical use of spatial linear models including prediction kriging spatial sampling and spatial design of experiments for solving real world problems All concepts are introduced in a natural order and illustrated throughout the book using four datasets All analyses tables and figures are completely reproducible using open source R code provided at a GitHub site Exercises are given at the end of each chapter with full solutions provided on an instructor s FTP site supplied by the publisher *Biometry for Forestry and Environmental Data* Lauri Mehtätalo,Juha Lappi,2020-05-27 Biometry for Forestry and Environmental Data with Examples in R focuses on statistical methods that are widely applicable in forestry and environmental sciences but it also includes material that is of wider interest Features Describes the theory and applications of selected statistical methods and illustrates their use and basic concepts through examples with forestry and environmental data in R Rigorous but easily accessible presentation of the linear nonlinear generalized linear and multivariate models and their mixed effects counterparts Chapters on tree size tree taper measurement errors and forest experiments are also included Necessary statistical theory about random variables estimation and prediction is included The wide applicability of the linear prediction theory is emphasized The hands on examples with implementations using R make it easier for non statisticians to understand

the concepts and apply the methods with their own data Lot of additional material is available at www biombook org The book is aimed at students and researchers in forestry and environmental studies but it will also be of interest to statisticians and researchers in other fields as well   *Spatio-Temporal Models for Ecologists* James Thorson,Kasper Kristensen,2024-02-27 Ecological dynamics are tremendously complicated and are studied at a variety of spatial and temporal scales Ecologists often simplify analysis by describing changes in density of individuals across a landscape and statistical methods are advancing rapidly for studying spatio temporal dynamics However spatio temporal statistics is often presented using a set of principles that may seem very distant from ecological theory or practice This book seeks to introduce a minimal set of principles and numerical techniques for spatio temporal statistics that can be used to implement a wide range of real world ecological analyses regarding animal movement population dynamics community composition causal attribution and spatial dynamics We provide a step by step illustration of techniques that combine core spatial analysis packages in R with low level computation using Template Model Builder Techniques are showcased using real world data from varied ecological systems providing a toolset for hierarchical modelling of spatio temporal processes Spatio Temporal Models for Ecologists is meant for graduate level students alongside applied and academic ecologists Key Features Foundational ecological principles and analyses Thoughtful and thorough ecological examples Analyses conducted using a minimal toolbox and fast computation Code using R and TMB included in the book and available online   Spatial Ecology and Conservation Modeling Robert Fletcher,Marie-Josée Fortin,2019-02-15 This book provides a foundation for modern applied ecology Much of current ecology research and conservation addresses problems across landscapes and regions focusing on spatial patterns and processes This book is aimed at teaching fundamental concepts and focuses on learning by doing through the use of examples with the software R It is intended to provide an entry level easily accessible foundation for students and practitioners interested in spatial ecology and conservation   **Environmental and Ecological Statistics with R** Song S. Qian,2016-11-03 Emphasizing the inductive nature of statistical thinking Environmental and Ecological Statistics with R Second Edition connects applied statistics to the environmental and ecological fields Using examples from published works in the ecological and environmental literature the book explains the approach to solving a statistical problem covering model specification parameter estimation and model evaluation It includes many examples to illustrate the statistical methods and presents R code for their implementation The emphasis is on model interpretation and assessment and using several core examples throughout the book the author illustrates the iterative nature of statistical inference The book starts with a description of commonly used statistical assumptions and exploratory data analysis tools for the verification of these assumptions It then focuses on the process of building suitable statistical models including linear and nonlinear models classification and regression trees generalized linear models and multilevel models It also discusses the use of simulation for model checking and provides tools for a critical assessment of the developed models The second edition also

includes a complete critique of a threshold model Environmental and Ecological Statistics with R Second Edition focuses on statistical modeling and data analysis for environmental and ecological problems By guiding readers through the process of scientific problem solving and statistical model development it eases the transition from scientific hypothesis to statistical model *Introduction to Ecological Sampling* Bryan F.J. Manly,Jorge A. Navarro Alberto,2014-10-20 This book shows how to use sampling procedures for ecological and environmental studies It incorporates both traditional sampling methods and recent developments in environmental and ecological sampling methods including mark recapture adaptive and removal sampling The book explains the methods as simply as possible keeping equations and their derivations to a minimum Accessible to biologists the text only assumes a basic knowledge of statistical methods Data sets and R code are available on a supplementary website **A Bayesian Introduction to Fish Population Analysis** Joseph E. Hightower,2025-09-23 Fisheries science is an applied field A biologist working on a depleted population might need to forecast the population trajectory or examine which factors are limiting recovery For an exploited population a biologist might investigate whether the fishery or the stock would be improved through harvest regulation such as a quota or size limit Addressing those sorts of questions generally involves estimating parameters such as population size or survival rate An essential step is characterizing the degree of uncertainty in results which can be substantial for fisheries models Bayesian methods and current software provide a flexible and powerful framework for addressing these challenges Models developed using Bayesian software can be tailored to the unique aspects of each field study A Bayesian Introduction to Fish Population Analysis is aimed at advanced undergraduate and graduate students as well as working professionals interested in a hands on introduction to Bayesian approaches for fitting fisheries models Chapters address key aspects of population dynamics abundance mortality growth and recruitment The book includes complete R code for simulating each study design and JAGS Bayesian code for model fitting code files are also available online No prior knowledge of R or JAGS is assumed and new commands are introduced gradually through the sequence of examples There is emphasis throughout the book on how to vary simulation settings to develop intuition about fisheries models e g how many fish should be tagged in order to obtain usefully precise results Additional topics include development of integrated population models model checking model selection and uninformative and informative prior distributions Key features include The book begins with a focus on ecologically relevant probability distributions e g binomial Poisson normal lognormal as a foundation for the applied fisheries chapters Subsequent chapters demonstrate Bayesian approaches for estimating abundance mortality growth and recruitment Full open source code is provided for simulation and plotting using R and Bayesian model fitting using JAGS The book demonstrates how simulation can be used to gain a deeper understanding of analytical methods and for planning field studies Joseph E Hightower is a professor emeritus in the Department of Applied Ecology at NC State University His research interests focus on fish population dynamics especially field and analytical methods for estimating population parameters His

primary teaching role was a graduate course in quantitative fisheries management including Bayesian methods that serve as the foundation for this book <u>Bayesian Applications in Environmental and Ecological Studies with R and Stan</u> Song S. Qian,Mark R. DuFour,Ibrahim Alameddine,2022-08-29 Modern ecological and environmental sciences are dominated by observational data As a result traditional statistical training often leaves scientists ill prepared for the data analysis tasks they encounter in their work Bayesian methods provide a more robust and flexible tool for data analysis as they enable information from different sources to be brought into the modelling process Bayesian Applications in Evnironmental and Ecological Studies with R and Stan provides a Bayesian framework for model formulation parameter estimation and model evaluation in the context of analyzing environmental and ecological data Features An accessible overview of Bayesian methods in environmental and ecological studies Emphasizes the hypothetical deductive process particularly model formulation Necessary background material on Bayesian inference and Monte Carlo simulation Detailed case studies covering water quality monitoring and assessment ecosystem response to urbanization fisheries ecology and more Advanced chapter on Bayesian applications including Bayesian networks and a change point model Complete code for all examples along with the data used in the book are available via GitHub The book is primarily aimed at graduate students and researchers in the environmental and ecological sciences as well as environmental management professionals This is a group of people representing diverse subject matter fields who could benefit from the potential power and flexibility of Bayesian methods **Future Sustainable Ecosystems** Nathaniel K Newlands,2016-10-03 Future Sustainable Ecosystems Complexity Risk Uncertainty provides an interdisciplinary integrative overview of environmental problem solving using statistics It shows how statistics can be used to solve diverse environmental and socio economic problems involving food water energy scarcity and climate change risks It synthesizes interdisciplinary theory concepts definitions models and findings involved in complex global sustainability problem solving making it an essential guide and reference It includes real world examples and applications making the book accessible to a broader interdisciplinary readership Discussions include a broad integrated perspective on sustainability integrated risk multi scale changes and impacts taking place within ecosystems worldwide State of the art statistical techniques including Bayesian hierarchical spatio temporal agent based and game theoretic approaches are explored The author then focuses on the real world integration of observational and experimental data and its use within statistical models **Bringing Bayesian Models to Life** Mevin B. Hooten,Trevor Hefley,2019-05-15 Bringing Bayesian Models to Life empowers the reader to extend enhance and implement statistical models for ecological and environmental data analysis We open the black box and show the reader how to connect modern statistical models to computer algorithms These algorithms allow the user to fit models that answer their scientific questions without needing to rely on automated Bayesian software We show how to handcraft statistical models that are useful in ecological and environmental science including linear and generalized linear models spatial and time series models

occupancy and capture recapture models animal movement models spatio temporal models and integrated population models Features R code implementing algorithms to fit Bayesian models using real and simulated data examples A comprehensive review of statistical models commonly used in ecological and environmental science Overview of Bayesian computational methods such as importance sampling MCMC and HMC Derivations of the necessary components to construct statistical algorithms from scratch Bringing Bayesian Models to Life contains a comprehensive treatment of models and associated algorithms for fitting the models to data We provide detailed and annotated R code in each chapter and apply it to fit each model we present to either real or simulated data for instructional purposes Our code shows how to create every result and figure in the book so that readers can use and modify it for their own analyses We provide all code and data in an organized set of directories available at the authors websites **Spatial Data Analysis in Ecology and Agriculture Using R** Richard E. Plant,2018-12-07 Key features Unique in its combination of serving as an introduction to spatial statistics and to modeling agricultural and ecological data using R Provides exercises in each chapter to facilitate the book s use as a course textbook or for self study Adds new material on generalized additive models point pattern analysis and new methods of Bayesian analysis of spatial data Includes a completely revised chapter on the analysis of spatiotemporal data featuring recently introduced software and methods Updates its coverage of R software including newly introduced packages Spatial Data Analysis in Ecology and Agriculture Using R 2nd Edition provides practical instruction on the use of the R programming language to analyze spatial data arising from research in ecology agriculture and environmental science Readers have praised the book s practical coverage of spatial statistics real world examples and user friendly approach in presenting and explaining R code aspects maintained in this update Using data sets from cultivated and uncultivated ecosystems the book guides the reader through the analysis of each data set including setting research objectives designing the sampling plan data quality control exploratory and confirmatory data analysis and drawing scientific conclusions Additional material to accompany the book on both analyzing satellite data and on multivariate analysis can be accessed at https www plantsciences ucdavis edu plant additionaltopics htm *Spatial Point Patterns* Adrian Baddeley,Ege Rubak,Rolf Turner,2015-11-11 Modern Statistical Methodology and Software for Analyzing Spatial Point PatternsSpatial Point Patterns Methodology and Applications with R shows scientific researchers and applied statisticians from a wide range of fields how to analyze their spatial point pattern data Making the techniques accessible to non mathematicians the authors draw on th

Handbook of Environmental and Ecological Statistics Alan E. Gelfand,Montserrat Fuentes,Jennifer A. Hoeting,Richard Lyttleton Smith,2019-01-15 This handbook focuses on the enormous literature applying statistical methodology and modelling to environmental and ecological processes The 21st century statistics community has become increasingly interdisciplinary bringing a large collection of modern tools to all areas of application in environmental processes In addition the environmental community has substantially increased its scope of data collection including observational data satellite

derived data and computer model output The resultant impact in this latter community has been substantial no longer are simple regression and analysis of variance methods adequate The contribution of this handbook is to assemble a state of the art view of this interface Features An internationally regarded editorial team A distinguished collection of contributors A thoroughly contemporary treatment of a substantial interdisciplinary interface Written to engage both statisticians as well as quantitative environmental researchers 34 chapters covering methodology ecological processes environmental exposure and statistical methods in climate science **Individual-based Methods in Forest Ecology and Management** Arne Pommerening,Pavel Grabarnik,2019-09-17 Model driven individual based forest ecology and individual based methods in forest management are of increasing importance in many parts of the world For the first time this book integrates three main fields of forest ecology and management i e tree plant interactions biometry of plant growth and human behaviour in forests Individual based forest ecology and management is an interdisciplinary research field with a focus on how the individual behaviour of plants contributes to the formation of spatial patterns that evolve through time Key to this research is a strict bottom up approach where the shaping and characteristics of plant communities are mostly the result of interactions between plants and between plants and humans This book unites important methods of individual based forest ecology and management from point process statistics individual based modelling plant growth science and behavioural statistics For ease of access better understanding and transparency the methods are accompanied by R code and worked examples

Spatial Analysis Mark R. T. Dale,Marie-Josée Fortin,2014-09-11 An essential guide for graduates researchers and professionals to spatial analysis and the fast growing range of methods available **Spatial Analysis** Marie-Josée Fortin,Mark R. T. Dale,2005-04-21 An overview of the wide range of spatial statistics available to analyse ecological data

Statistical Analysis of Spatial and Spatio-Temporal Point Patterns Peter J. Diggle,2013-07-23 Retaining all the material from the second edition and adding substantial new material this third edition presents models and statistical methods for analyzing spatially referenced point process data Reflected in the title this edition now covers spatio temporal point patterns It also incorporates the use of R through several packages dedicated to the analysis of spatial point process data with code and data sets available online Practical examples illustrate how the methods are applied to analyze spatial data in the life sciences *Local Models for Spatial Analysis* Christopher D. Lloyd,2010-10-13 Focusing on solutions this second edition provides guidance for readers who face a variety of real world problems The text presents a complete introduction to key concepts and a clear mapping of the methods New chapters address spatial patterning in single variables and spatial relations The author distinguishes between local and global methods and provides detailed coverage of geographical weighting image texture measures local spatial autocorrelation and geographically weighted regression

Applied Spatial Data Analysis with R Roger S. Bivand,Edzer Pebesma,Virgilio Gómez-Rubio,2013-06-21 Applied Spatial Data Analysis with R second edition is divided into two basic parts the first presenting R packages functions classes and

methods for handling spatial data This part is of interest to users who need to access and visualise spatial data Data import and export for many file formats for spatial data are covered in detail as is the interface between R and the open source GRASS GIS and the handling of spatio temporal data The second part showcases more specialised kinds of spatial data analysis including spatial point pattern analysis interpolation and geostatistics areal data analysis and disease mapping The coverage of methods of spatial data analysis ranges from standard techniques to new developments and the examples used are largely taken from the spatial statistics literature All the examples can be run using R contributed packages available from the CRAN website with code and additional data sets from the book s own website Compared to the first edition the second edition covers the more systematic approach towards handling spatial data in R as well as a number of important and widely used CRAN packages that have appeared since the first edition This book will be of interest to researchers who intend to use R to handle visualise and analyse spatial data It will also be of interest to spatial data analysts who do not use R but who are interested in practical aspects of implementing software for spatial data analysis It is a suitable companion book for introductory spatial statistics courses and for applied methods courses in a wide range of subjects using spatial data including human and physical geography geographical information science and geoinformatics the environmental sciences ecology public health and disease control economics public administration and political science The book has a website where complete code examples data sets and other support material may be found http www asdar book org The authors have taken part in writing and maintaining software for spatial data handling and analysis with R in concert since 2003

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