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Introduction to Bayesian Methods in Ecology and Natural Resources

Bayesian Methods For Ecology

William A Link, Richard J Barker



Bayesian Methods For Ecology:

Introduction to Bayesian Methods in Ecology and Natural Resources Edwin J. Green, Andrew O. Finley, William E. Strawderman, 2020-11-26 This book presents modern Bayesian analysis in a format that is accessible to researchers in the fields of ecology wildlife biology and natural resource management Bayesian analysis has undergone a remarkable transformation since the early 1990s Widespread adoption of Markov chain Monte Carlo techniques has made the Bayesian paradigm the viable alternative to classical statistical procedures for scientific inference The Bayesian approach has a number of desirable qualities three chief ones being i the mathematical procedure is always the same allowing the analyst to concentrate on the scientific aspects of the problem ii historical information is readily used when appropriate and iii hierarchical models are readily accommodated This monograph contains numerous worked examples and the requisite computer programs The latter are easily modified to meet new situations A primer on probability distributions is also included because these form the basis of Bayesian inference Researchers and graduate students in Ecology and Natural Resource Management will find this book a valuable reference *Bayesian Methods for Ecology* Michael A. McCarthy, 2007 An accessible text describing how to use Bayesian methods of statistical analysis in ecology **Bayesian Analysis for Population Ecology** Ruth King, Byron Morgan, Olivier Gimenez, Steve Brooks, 2009-10-30 Emphasizing model choice and model averaging this book presents up to date Bayesian methods for analyzing complex ecological data It provides a basic introduction to Bayesian methods that assumes no prior knowledge The book includes detailed descriptions of methods that deal with covariate data and covers techniques at the forefront of research such as model discrimination and model averaging Leaders in the statistical ecology field the authors apply the theory to a wide range of actual case studies and illustrate the methods using WinBUGS and R The computer programs and full details of the data sets are available on the book s website Bayesian Inference William A Link, Richard J Barker, 2009-08-07 This text is written to provide a mathematically sound but accessible and engaging introduction to Bayesian inference specifically for environmental scientists ecologists and wildlife biologists It emphasizes the power and usefulness of Bayesian methods in an ecological context The advent of fast personal computers and easily available software has simplified the use of Bayesian and hierarchical models One obstacle remains for ecologists and wildlife biologists namely the near absence of Bayesian texts written specifically for them The book includes many relevant examples is supported by software and examples on a companion website and will become an essential grounding in this approach for students and research ecologists Engagingly written text specifically designed to demystify a complex subject Examples drawn from ecology and wildlife research An essential grounding for graduate and research ecologists in the increasingly prevalent Bayesian approach to inference Companion website with analytical software and examples Leading authors with world class reputations in ecology and biostatistics **Bayesian Analysis for Population Ecology** Ruth King, 2010 Emphasizing model choice and model

averaging this book presents Bayesian methods for analyzing complex ecological data Providing a basic introduction to Bayesian methods the book includes detailed descriptions of methods that deal with covariate data and covers techniques at the forefront of research such as model discrimination and model averaging Leaders in the statistical ecology field the authors apply the theory to a wide range of actual case studies and illustrate the methods using WinBUGS and R

Likelihood Methods in Biology and Ecology Michael Brimacombe, 2018-12-18 This book emphasizes the importance of the likelihood function in statistical theory and applications and discusses it in the context of biology and ecology Bayesian and frequentist methods both use the likelihood function and provide differing but related insights This is examined here both through review of basic methodology and also the integr

Marine Mammal Survey and Assessment Methods J.L. Laake, D.G. Robertson, Steven C. Amstrup, 1999-06-01 This volume comprises the proceedings of a symposium on marine mammal survey assessment methods which took place in Seattle Washington USA

Introduction to WinBUGS for Ecologists Marc Kéry, 2010-07-19 Introduction to WinBUGS for Ecologists introduces applied Bayesian modeling to ecologists using the highly acclaimed free WinBUGS software It offers an understanding of statistical models as abstract representations of the various processes that give rise to a data set Such an understanding is basic to the development of inference models tailored to specific sampling and ecological scenarios The book begins by presenting the advantages of a Bayesian approach to statistics and introducing the WinBUGS software It reviews the four most common statistical distributions the normal the uniform the binomial and the Poisson It describes the two different kinds of analysis of variance ANOVA one way and two or multiway It looks at the general linear model or ANCOVA in R and WinBUGS It introduces generalized linear model GLM i e the extension of the normal linear model to allow error distributions other than the normal The GLM is then extended contain additional sources of random variation to become a generalized linear mixed model GLMM for a Poisson example and for a binomial example The final two chapters showcase two fairly novel and nonstandard versions of a GLMM The first is the site occupancy model for species distributions the second is the binomial or N mixture model for estimation and modeling of abundance Introduction to the essential theories of key models used by ecologists Complete juxtaposition of classical analyses in R and Bayesian analysis of the same models in WinBUGS Provides every detail of R and WinBUGS code required to conduct all analyses Companion Web Appendix that contains all code contained in the book and additional material including more code and solutions to exercises

Case Studies in Bayesian Statistical Modelling and Analysis Clair L. Alston, Kerrie L. Mengersen, Anthony N. Pettitt, 2012-10-10 Provides an accessible foundation to Bayesian analysis using real world models This book aims to present an introduction to Bayesian modelling and computation by considering real case studies drawn from diverse fields spanning ecology health genetics and finance Each chapter comprises a description of the problem the corresponding model the computational method results and inferences as well as the issues that arise in the implementation of these approaches Case Studies in Bayesian Statistical Modelling and Analysis

Illustrates how to do Bayesian analysis in a clear and concise manner using real world problems Each chapter focuses on a real world problem and describes the way in which the problem may be analysed using Bayesian methods Features approaches that can be used in a wide area of application such as health the environment genetics information science medicine biology industry and remote sensing Case Studies in Bayesian Statistical Modelling and Analysis is aimed at statisticians researchers and practitioners who have some expertise in statistical modelling and analysis and some understanding of the basics of Bayesian statistics but little experience in its application Graduate students of statistics and biostatistics will also find this book beneficial

Bayesian Statistics for Beginners Therese M. Donovan, Ruth M. Mickey, 2019 Bayesian statistics is currently undergoing something of a renaissance At its heart is a method of statistical inference in which Bayes theorem is used to update the probability for a hypothesis as more evidence or information becomes available It is an approach that is ideally suited to making initial assessments based on incomplete or imperfect information as that information is gathered and disseminated the Bayesian approach corrects or replaces the assumptions and alters its decision making accordingly to generate a new set of probabilities As new data evidence becomes available the probability for a particular hypothesis can therefore be steadily refined and revised It is very well suited to the scientific method in general and is widely used across the social biological medical and physical sciences Key to this book s novel and informal perspective is its unique pedagogy a question and answer approach that utilizes accessible language humor plentiful illustrations and frequent reference to on line resources Bayesian Statistics for Beginners is an introductory textbook suitable for senior undergraduate and graduate students professional researchers and practitioners seeking to improve their understanding of the Bayesian statistical techniques they routinely use for data analysis in the life and medical sciences psychology public health business and other fields

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