

Bayesian Modeling Using WinBUGS

Ioannis Ntzoufras





Peter Congdon

Bayesian Modeling Using WinBUGS Ioannis Ntzoufras,2011-09-20 A hands on introduction to the principles of Bayesian modeling using WinBUGS Bayesian Modeling Using WinBUGS provides an easily accessible introduction to the use of WinBUGS programming techniques in a variety of Bayesian modeling settings The author provides an accessible treatment of the topic offering readers a smooth introduction to the principles of Bayesian modeling with detailed guidance on the practical implementation of key principles The book begins with a basic introduction to Bayesian inference and the WinBUGS software and goes on to cover key topics including Markov Chain Monte Carlo algorithms in Bayesian inference Generalized linear models Bayesian hierarchical models Predictive distribution and model checking Bayesian model and variable evaluation Computational notes and screen captures illustrate the use of both WinBUGS as well as R software to apply the discussed techniques Exercises at the end of each chapter allow readers to test their understanding of the presented concepts and all data sets and code are available on the book s related Web site Requiring only a working knowledge of probability theory and statistics Bayesian Modeling Using WinBUGS serves as an excellent book for courses on Bayesian statistics at the upper undergraduate and graduate levels It is also a valuable reference for researchers and practitioners in the fields of statistics actuarial science medicine and the social sciences who use WinBUGS in their everyday work

Applied Bayesian Modelling Peter Congdon, 2014-05-23 This book provides an accessible approach to Bayesian computing and data analysis with an emphasis on the interpretation of real data sets Following in the tradition of the successful first edition this book aims to make a wide range of statistical modeling applications accessible using tested code that can be readily adapted to the reader's own applications. The second edition has been thoroughly reworked and updated to take account of advances in the field A new set of worked examples is included The novel aspect of the first edition was the coverage of statistical modeling using WinBUGS and OPENBUGS This feature continues in the new edition along with examples using R to broaden appeal and for completeness of coverage Bayesian Population Analysis Using WinBUGS Marc Kéry, Michael Schaub, 2012 Bayesian statistics has exploded into biology and its sub disciplines such as ecology over the past decade The free software program WinBUGS and its open source sister OpenBugs is currently the only flexible and general purpose program available with which the average ecologist can conduct standard and non standard Bayesian statistics Comprehensive and richly commented examples illustrate a wide range of models that are most relevant to the research of a modern population ecologist All WinBUGS OpenBUGS analyses are completely integrated in software R Includes complete documentation of all R and WinBUGS code required to conduct analyses and shows all the necessary steps from having the data in a text file out of Excel to interpreting and processing the output from WinBUGS in R Bavesian *Analysis Made Simple* Phil Woodward, 2011-08-26 Although the popularity of the Bayesian approach to statistics has been growing for years many still think of it as somewhat esoteric not focused on practical issues or generally too difficult to

understand Bayesian Analysis Made Simple is aimed at those who wish to apply Bayesian methods but either are not experts or do not have the time to create WinBUGS code and ancillary files for every analysis they undertake Accessible to even those who would not routinely use Excel this book provides a custom made Excel GUI immediately useful to those users who want to be able to quickly apply Bayesian methods without being distracted by computing or mathematical issues From simple NLMs to complex GLMMs and beyond Bayesian Analysis Made Simple describes how to use Excel for a vast range of Bayesian models in an intuitive manner accessible to the statistically savvy user Packed with relevant case studies this book is for any data analyst wishing to apply Bayesian methods to analyze their data from professional statisticians to statistically Bayesian Methods Jeff Gill, 2014-12-11 An Update of the Most Popular Graduate Level Introductions to Bayesian Statistics for Social ScientistsNow that Bayesian modeling has become standard MCMC is well understood and trusted and computing power continues to increase Bayesian Methods A Social and Behavioral Sciences Approach Third Edition focuses more on implementation details of th **Bayesian Methods and Applications Using WinBUGS** Palavinnage Saman Muthukumarana, 2010 In Bayesian statistics we are interested in the posterior distribution of parameters In simple cases we can derive analytical expressions for the posterior However in most situations the posterior expectations cannot be calculated analytically due to the complexity of the integrals This thesis develops some new methodologies for applied problems which deal with multidimensional parameters complex model structures and complex likelihood functions The first project is concerned with the simulation of one day cricket matches Given that only a finite number of outcomes can occur on each ball a discrete generator on a finite set is developed where the outcome probabilities are estimated from historical data The probabilities depend on the batsman the bowler the number of wickets lost the number of balls bowled and the innings The proposed simulator appears to do a reasonable job at producing realistic results The simulator allows investigators to address complex questions involving one day cricket matches The second project investigates the suitability of Dirichlet process priors in the Bayesian analysis of network data Dirichlet process priors allow the researcher to weaken prior assumptions by going from a parametric to a semiparametric framework This is important in the analysis of network data where complex nodal relationships rarely allow a researcher the confidence in assigning parametric priors The Dirichlet process also provides a clustering mechanism which is often suitable for network data where groups of individuals in a network can be thought of as arising from the same cohort The approach is highlighted on two network models and implemented using WinBUGS The third project develops a Bayesian latent variable model to analyze ordinal survey data The data are viewed as multivariate responses arising from a class of continuous latent variables with known cut points Each respondent is characterized by two parameters that have a Dirichlet process as their joint prior distribution The proposed mechanism adjusts for classes of personality traits As the resulting posterior distribution is complex and high dimensional posterior expectations are approximated by MCMC methods The methodology is tested through simulation studies and

illustrated using student feedback data from course evaluations at Simon Fraser University Modeling and Reasoning with Bayesian Networks Adnan Darwiche, 2014-05-14 This 2009 book introduces the formal foundations and practical applications of Bayesian networks

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