Giovanni Petris

Sonia Petrone

Patrizia Campagnoli

Dynamic Linear Models with R

Springer

Dynamic Linear Models With R Use R

JA Banks

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   Dynamic Linear Models with R Giovanni Petris,Sonia Petrone,Patrizia Campagnoli,2009-06-12 State space models have gained tremendous popularity in recent years in as disparate fields as engineering economics genetics and ecology After a detailed introduction to general state space models this book focuses on dynamic linear models emphasizing their Bayesian analysis Whenever possible it is shown how to compute estimates and forecasts in closed form for more complex models simulation techniques are used A final chapter covers modern sequential Monte Carlo algorithms The book illustrates all the fundamental steps needed to use dynamic linear models in practice using R Many detailed examples based on real data sets are provided to show how to set up a specific model estimate its parameters and use it for forecasting All the code used in the book is available online No prior knowledge of Bayesian statistics or time series analysis is required although familiarity with basic statistics and R is assumed   Bayesian inference with INLA Virgilio Gomez-Rubio,2020-02-20 The integrated nested Laplace approximation INLA is a recent computational method that can fit Bayesian models in a fraction of the time required by typical Markov chain Monte Carlo MCMC methods INLA focuses on marginal inference on the model parameters of latent Gaussian Markov random fields models and exploits conditional independence properties in the model for computational speed Bayesian Inference with INLA provides a description of INLA and its associated R package for model fitting This book describes the underlying methodology as well as how to fit a wide range of models with R Topics covered include generalized linear mixed effects models multilevel models spatial and spatio temporal models smoothing methods survival analysis imputation of missing values and mixture models Advanced features of the INLA package and how to extend the number of priors and latent models available in the package are discussed All examples in the book are fully reproducible and datasets and R code are available from the book website This book will be helpful to researchers from different areas with some background in Bayesian inference that want to apply the INLA method in their work The examples cover topics on biostatistics econometrics education environmental science epidemiology public health and the social sciences   **Bayesian Analysis of Time Series** Lyle D. Broemeling,2019-04-16 In many branches of science relevant observations are taken sequentially over time Bayesian Analysis of Time Series discusses how to use models that explain the probabilistic characteristics of these time series and then utilizes the Bayesian approach to make inferences about their parameters This is done by taking the prior information and via Bayes theorem implementing Bayesian inferences of estimation testing hypotheses and prediction The methods are demonstrated using both R and WinBUGS The R package is primarily used to generate observations from a given time series model while the WinBUGS packages allows one to perform a posterior analysis that provides a way to determine the characteristic of the posterior distribution of the unknown parameters Features Presents a comprehensive introduction to the Bayesian analysis of time series Gives many examples over a wide variety of fields including biology agriculture business economics sociology and astronomy Contains numerous exercises at the end of

each chapter many of which use R and WinBUGS Can be used in graduate courses in statistics and biostatistics but is also appropriate for researchers practitioners and consulting statisticians About the author Lyle D Broemeling Ph D is Director of Broemeling and Associates Inc and is a consulting biostatistician He has been involved with academic health science centers for about 20 years and has taught and been a consultant at the University of Texas Medical Branch in Galveston The University of Texas MD Anderson Cancer Center and the University of Texas School of Public Health His main interest is in developing Bayesian methods for use in medical and biological problems and in authoring textbooks in statistics His previous books for Chapman Hall CRC include Bayesian Biostatistics and Diagnostic Medicine and Bayesian Methods for Agreement

  Time Series Analysis: Methods and Applications ,2012-05-18 The field of statistics not only affects all areas of scientific activity but also many other matters such as public policy It is branching rapidly into so many different subjects that a series of handbooks is the only way of comprehensively presenting the various aspects of statistical methodology applications and recent developments The Handbook of Statistics is a series of self contained reference books Each volume is devoted to a particular topic in statistics with Volume 30 dealing with time series The series is addressed to the entire community of statisticians and scientists in various disciplines who use statistical methodology in their work At the same time special emphasis is placed on applications oriented techniques with the applied statistician in mind as the primary audience Comprehensively presents the various aspects of statistical methodology Discusses a wide variety of diverse applications and recent developments Contributors are internationally renowened experts in their respective areas   **Current Index to Statistics, Applications, Methods and Theory** ,1999 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields   **Applied Machine Learning** M. Gopal,2019-06-07 Cutting edge machine learning principles practices and applications This comprehensive textbook explores the theoretical under pinnings of learning and equips readers with the knowledge needed to apply powerful machine learning techniques to solve challenging real world problems Applied Machine Learning shows step by step how to conceptualize problems accurately represent data select and tune algorithms interpret and analyze results and make informed strategic decisions Presented in a non rigorous mathematical style the book covers a broad array of machine learning topics with special emphasis on methods that have been profitably employed Coverage includes Supervised learning Statistical learning Learning with support vector machines SVM Learning with neural networks NN Fuzzy inference systems Data clustering Data transformations Decision tree learning Business intelligence Data mining And much more   *Stata User's Guide* Stata Corporation,2001   **Applied Simulation and Modelling, ASM '86** International Association of Science and Technology for Development,1986

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