

Christian P. Robert (Ed.)

**Discretization and MCMC
Convergence Assessment**



Springer

Discretization And Mcmc Convergence Assessment

David Rios Insua



Discretization And Mcmc Convergence Assessment:

Discretization and MCMC Convergence Assessment Christian P. Robert, 1998-08-13 This monograph proposes several approaches to convergence monitoring for MCMC algorithms which are centered on the theme of discrete Markov chains After a short introduction to MCMC methods including recent developments like perfect simulation and Langevin Metropolis Hastings algorithms and to the current convergence diagnostics the contributors present the theoretical basis for a study of MCMC convergence using discrete Markov chains and their specificities The contributors stress in particular that this study applies in a wide generality starting with latent variable models like mixtures then extending the scope to chains with renewal properties and concluding with a general Markov chain They then relate the different connections with discrete or finite Markov chains with practical convergence diagnostics which are either graphical plots allocation map divergence graph variance stabilizing normality plot stopping rules normality stationarity stability tests or confidence bounds divergence asymptotic variance normality Most of the quantitative tools take advantage of manageable versions of the CLT The different methods proposed here are first evaluated on a set of benchmark examples and then studied on three full scale realistic applications along with the standard convergence diagnostics A hidden Markov modelling of DNA sequences including a perfect simulation implementation a latent stage modelling of the dynamics of HIV infection and a modelling of hospitalization duration by exponential mixtures The monograph is the outcome of a monthly research seminar held at CREST Paris since 1995 The seminar involved the contributors to this monograph and was led by Christian P Robert Head of the Statistics Laboratory at CREST and Professor of Statistics at the University of Rouen since 1992 [Bayesian Methods](#) Jeff Gill, 2014-12-11 An Update of the Most Popular Graduate Level Introductions to Bayesian Statistics for Social Scientists Now 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

Monte Carlo Statistical Methods Christian Robert, George Casella, 2013-03-14 Monte Carlo statistical methods particularly those based on Markov chains are now an essential component of the standard set of techniques used by statisticians This new edition has been revised towards a coherent and flowing coverage of these simulation techniques with incorporation of the most recent developments in the field In particular the introductory coverage of random variable generation has been totally revised with many concepts being unified through a fundamental theorem of simulation There are five completely new chapters that cover Monte Carlo control reversible jump slice sampling sequential Monte Carlo and perfect sampling There is a more in depth coverage of Gibbs sampling which is now contained in three consecutive chapters The development of Gibbs sampling starts with slice sampling and its connection with the fundamental theorem of simulation and builds up to two stage Gibbs sampling and its theoretical properties A third chapter covers the multi stage Gibbs sampler and its variety of applications Lastly chapters from the previous edition have been revised towards

easier access with the examples getting more detailed coverage This textbook is intended for a second year graduate course but will also be useful to someone who either wants to apply simulation techniques for the resolution of practical problems or wishes to grasp the fundamental principles behind those methods The authors do not assume familiarity with Monte Carlo techniques such as random variable generation with computer programming or with any Markov chain theory the necessary concepts are developed in Chapter 6 A solutions manual which covers approximately 40% of the problems is available for instructors who require the book for a course Christian P Robert is Professor of Statistics in the Applied Mathematics Department at Universit Paris Dauphine France He is also Head of the Statistics Laboratory at the Center for Research in Economics and Statistics CREST of the National Institute for Statistics and Economic Studies INSEE in Paris and Adjunct Professor at Ecole Polytechnique He has written three other books and won the 2004 DeGroot Prize for *The Bayesian Choice* Second Edition Springer 2001 He also edited *Discretization and MCMC Convergence Assessment* Springer 1998 He has served as associate editor for the *Annals of Statistics* *Statistical Science* and the *Journal of the American Statistical Association* He is a fellow of the Institute of Mathematical Statistics and a winner of the Young Statistician Award of the Soci t de Statistique de Paris in 1995 George Casella is Distinguished Professor and Chair Department of Statistics University of Florida He has served as the Theory and Methods Editor of the *Journal of the American Statistical Association* and Executive Editor of *Statistical Science* He has authored three other textbooks *Statistical Inference* Second Edition 2001 with Roger L Berger *Theory of Point Estimation* 1998 with Erich Lehmann and *Variance Components* 1992 with Shayle R Searle and Charles E McCulloch He is a fellow of the Institute of Mathematical Statistics and the American Statistical Association and an elected fellow of the International Statistical Institute *Elements of Computational Statistics* James E. Gentle, 2002-08-12 Will provide a more elementary introduction to these topics than other books available Gentle is the author of two other Springer books *Mathematical Reviews*, 2007 **Technometrics**, 2005 *Bayesian Statistics 6* J. M. Bernardo, 1999-08-12 Bayesian statistics is a dynamic and fast growing area of statistical research and the Valencia International Meetings provide the main forum for discussion These resulting proceedings form an up to date collection of research *AMSTAT News* American Statistical Association, 1999 *Measuring Risk in Complex Stochastic Systems* J. Franke, Wolfgang Härdle, Gerhard Stahl, 2000-06-15 This collection of articles by leading researchers will be of interest to people working in the area of mathematical finance **Robust Bayesian Analysis** David Rios Insua, 2000-09-14 This edited volume will present an overview of robust Bayesian methods and their applications Chapters will explore both foundational and computational aspects together with applications Chapters concerning foundations will describe decision theoretical axiomatisations leading to the robust Bayesian paradigm and motivate reasons for which robust analyses are practically unavoidable within Bayesian analysis **Australian Journal of Agricultural Research**, 2005 *Journal of the American Statistical Association* American Statistical Association, 2000 *Index of Conference Proceedings* British Library. Document

Supply Centre,1998 2000 IEEE International Conference on Acoustics, Speech, and Signal Processing ,2000 *Bayesian Inference in Wavelet-Based Models* Peter Müller,1999-06-22 The remaining papers in this volume are divided into six parts independent prior modeling decision theoretic aspects dependent prior modeling spatial models using bivariate wavelet bases empirical Bayes approaches and case studies BOOK JACKET **The Inverse Gaussian Distribution V.**

Seshadri,1999 This book is written in the hope that it will serve as a companion volume to my first monograph The first monograph was largely devoted to the probabilistic aspects of the inverse Gaussian law and therefore ignored the statistical issues and related data analyses Ever since the appearance of the book by Chhikara and Folks a considerable number of publications in both theory and applications of the inverse Gaussian law have emerged thereby justifying the need for a comprehensive treatment of the issues involved This book is divided into two sections and fills up the gap updating the material found in the book of Chhikara and Folks Part I contains seven chapters and covers distribution theory estimation significance tests goodness of fit sequential analysis and compound laws and mixtures The first part forms the backbone of the theory and wherever possible I have provided illustrative examples for easy assimilation of the theory The second part is devoted to a wide range of applications from various disciplines The applied statistician will find numerous instances of examples which pertain to a first passage time situation It is indeed remarkable that in the fields of life testing ecology entomology health sciences traffic intensity and management science the inverse Gaussian law plays a dominant role Real life examples from actuarial science and ecology came to my attention after this project was completed and I found it impossible to include them *An Automated Stopping Rule for MCMC Convergence Assessment* Didier Chauveau,Jean Diebolt,2000 In this paper we propose a methodology essentially based on the Central Limit Theorem for Markov chains to monitor convergence of MCMC algorithms using actual outputs Our methods are grounded on the fact that normality is a testable implication of sufficient mixing The first control tool tests the normality hypothesis for normalized averages of functions of the Markov chain over independent parallel chains started from a dispersed distribution A second connected tool is based on graphical monitoring of the stabilization of the variance after n iterations near the limiting variance Both methods work without knowledge on the sampler driving the chain and the normality diagnostic leads to automated stopping rules These stopping rules are implemented in a software toolbox whose performances are illustrated through simulations for finite and continuous state chains reflecting some typical situations and a full scale application Comparisons are made with the binary control method of Raftery and Lewis **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

Cumulated Index to the Books ,1999 *Statistical Theory and Method Abstracts* ,1999

Whispering the Secrets of Language: An Mental Journey through **Discretization And Mcmc Convergence Assessment**

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