

Christian P. Robert (Ed.)

**Discretization and MCMC
Convergence Assessment**



Springer

Discretization And Mcmc Convergence Assessment

**J. Franke, Wolfgang Härdle, Gerhard
Stahl**



Discretization And Mcmc Convergence Assessment:

Discretization and MCMC Convergence Assessment Christian P. Robert, 2012-12-06 The exponential increase in the use of MCMC methods and the corresponding applications in domains of even higher complexity have caused a growing concern about the available convergence assessment methods and the realization that some of these methods were not reliable enough for all purpose analyses Some researchers have mainly focussed on the convergence to stationarity and the estimation of rates of convergence in relation with the eigenvalues of the transition kernel This monograph adopts a different perspective by developing supposedly practical devices to assess the mixing behaviour of the chain under study and more particularly it proposes methods based on finite state space Markov chains which are obtained either through a discretization of the original Markov chain or through a duality principle relating a continuous state space Markov chain to another finite Markov chain as in missing data or latent variable models The motivation for the choice of finite state spaces is that although the resulting control is cruder in the sense that it can often monitor convergence for the discretized version alone it is also much stricter than alternative methods since the tools available for finite Markov chains are universal and the resulting transition matrix can be estimated more accurately Moreover while some setups impose a fixed finite state space other allow for possible refinements in the discretization level and for consecutive improvements in the convergence monitoring

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 the **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
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 Bernardo, 1999-08-12 Bayesian statistics is a dynamic and fast growing area of statistical research and the Valencia
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 ,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
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