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PROBABILITY

35

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G. George Yin

Stochastic Approximation and Recursive Algorithms and Applications

Second Edition



Springer

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Christian G. Meyer



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Handbook of Simulation Optimization Michael C Fu,2014-11-13 The Handbook of Simulation Optimization presents an overview of the state of the art of simulation optimization providing a survey of the most well established approaches for optimizing stochastic simulation models and a sampling of recent research advances in theory and methodology Leading contributors cover such topics as discrete optimization via simulation ranking and selection efficient simulation budget allocation random search methods response surface methodology stochastic gradient estimation stochastic approximation

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Handbook of Monte Carlo Methods Dirk P. Kroese, Thomas Taimre, Zdravko I. Botev, 2013-06-06 A comprehensive overview of Monte Carlo simulation that explores the latest topics techniques and real world applications More and more of today's numerical problems found in engineering and finance are solved through Monte Carlo methods The heightened popularity of these methods and their continuing development makes it important for researchers to have a comprehensive understanding of the Monte Carlo approach Handbook of Monte Carlo Methods provides the theory algorithms and applications that helps provide a thorough understanding of the emerging dynamics of this rapidly growing field The authors begin with a discussion of fundamentals such as how to generate random numbers on a computer Subsequent chapters discuss key Monte Carlo topics and methods including Random variable and stochastic process generation Markov chain Monte Carlo featuring key algorithms such as the Metropolis Hastings method the Gibbs sampler and hit and run Discrete event simulation Techniques for the statistical analysis of simulation data including the delta method steady state estimation and kernel density estimation Variance reduction including importance sampling latin hypercube sampling and conditional Monte Carlo Estimation of derivatives and sensitivity analysis Advanced topics including cross entropy rare events kernel density estimation quasi Monte Carlo particle systems and randomized optimization The presented theoretical concepts are illustrated with worked examples that use MATLAB a related Web site houses the MATLAB code allowing readers to work hands on with the material and also features the author's own lecture notes on Monte Carlo methods Detailed appendices provide background material on probability theory stochastic processes and mathematical statistics as well as the key optimization concepts and techniques that are relevant to Monte Carlo simulation Handbook of Monte Carlo Methods is an excellent reference for applied statisticians and practitioners working in the fields of engineering and finance who use or would like to learn how to use Monte Carlo in their research It is also a suitable supplement for courses on Monte Carlo methods and computational statistics at the upper undergraduate and graduate levels

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systems their theoretical analysis is usually very difficult Nevertheless over the past decade much fundamental progress has been made on some key questions concerning their stability convergence performance and robustness Moreover adaptive controllers have been successfully employed in numerous practical applications and have even entered the marketplace

Modern Optimal Control E. O. Roxin,1989-07-28 **Proceedings of the ... American Control Conference** ,1994

Adaptive Systems in Control and Signal Processing 1992 L. Dugard,M. M'Saad,I.D. Landau,2014-06-28 Adaptive Systems remain a very interesting field of theoretical research extended by methodological studies and an increasing number of applications The plenary papers invited sessions and contributed sessions focused on many aspects of adaptive systems such as systems identification and modelling adaptive control of nonlinear systems and theoretical issues in adaptive control Also covered were methodological aspects and applications of adaptive control intelligent tuning and adaptive signal processing SIAM Journal on Control and Optimization Society for Industrial and Applied Mathematics,2004 *Dynamic Systems and Applications* ,2006

Intelligent Systems and Automation Lotfi Beji,Samir Otmane,Azgal Abichou,2009-03-09 The aim of CISA 09 is to present the latest research and application results emerging from new research and technological developments of complex systems and intelligent machines acting on known or unknown virtual or real environments in an autonomous way or in cooperation with humans This field requires skills in automation and control perception of the environment human computer interfaces mechanics and design simulation etc It also aims at encouraging scientific cooperation between North and South and promoting scientific exchanges through a durable event **Journal of Machine Learning Research** ,2007 An international forum covering all areas of machine learning *Lecture Notes in Pure and Applied Mathematics* ,1989 Dynamics of Continuous, Discrete & Impulsive Systems ,2005 Journal of the American Statistical Association ,2007 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data

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