Lecture Notes in Mathematics

1733

Klaus Ritter

Average-Case Analysis of Numerical Problems

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Averagecase Analysis Of Numerical Problems

J. F. Traub,Arthur G. Werschulz

Averagecase Analysis Of Numerical Problems:

   Average-Case Analysis of Numerical Problems Klaus Ritter,2007-05-06 The average case analysis of numerical problems is the counterpart of the more traditional worst case approach The analysis of average error and cost leads to new insight on numerical problems as well as to new algorithms The book provides a survey of results that were mainly obtained during the last 10 years and also contains new results The problems under consideration include approximation optimal recovery and numerical integration of univariate and multivariate functions as well as zero finding and global optimization Background material e g on reproducing kernel Hilbert spaces and random fields is provided   **Essays on the Complexity of Continuous Problems** Erich Novak,Henryk Woźniakowski,2009 This book contains five essays on the complexity of continuous problems written for a wider audience The first four essays are based on talks presented in 2008 when Henryk Wozniakowski received an honorary doctoral degree from the Friedrich Schiller University of Jena The focus is on the introduction and history of the complexity of continuous problems as well as on recent progress concerning the complexity of high dimensional numerical problems The last essay provides a brief and informal introduction to the basic notions and concepts of information based complexity addressed to a general readership   *Encyclopaedia of Mathematics* Michiel Hazewinkel,2012-12-06 This is the second supplementary volume to Kluwer s highly acclaimed eleven volume Encyclopaedia of Mathematics This additional volume contains nearly 500 new entries written by experts and covers developments and topics not included in the previous volumes These entries are arranged alphabetically throughout and a detailed index is included This supplementary volume enhances the existing eleven volumes and together these twelve volumes represent the most authoritative comprehensive and up to date Encyclopaedia of Mathematics available   **Stochastic and Global Optimization** G. Dzemyda,V. Saltenis,A. Žilinskas,2006-04-11 In the paper we propose a model of tax incentives optimization for inve ment projects with a help of the mechanism of accelerated depreciation Unlike the tax holidays which influence on effective income tax rate accelerated preciation affects on taxable income In modern economic practice the state actively use for an attraction of vestment into the creation of new enterprises such mechanisms as accelerated depreciation and tax holidays The problem under our consideration is the following Assume that the state region is interested in realization of a certain investment project for ex ple the creation of a new enterprise In order to attract a potential investor the state decides to use a mechanism of accelerated tax depreciation The foll ing question arise What is a reasonable principle for choosing depreciation rate From the state s point of view the future investor s behavior will be rat nal It means that while looking at economic environment the investor choose such a moment for investment which maximizes his expected net present value NPV from the given project For this case both criteria and investment rule depend on proposed by the state depreciation policy For the simplicity we will suppose that the purpose of the state for a given project is a maximi tion of a discounted tax payments into the budget from the enterprise after its creation Of course these payments depend on the moment of investor s

entry and therefore on the depreciation policy established by the state   **Complexity and Information** J. F. Traub,Arthur G. Werschulz,1998-12-10 The twin themes of computational complexity and information pervade this 1998 book It starts with an introduction to the computational complexity of continuous mathematical models that is information based complexity This is then used to illustrate a variety of topics including breaking the curse of dimensionality complexity of path integration solvability of ill posed problems the value of information in computation assigning values to mathematical hypotheses and new improved methods for mathematical finance The style is informal and the goals are exposition insight and motivation A comprehensive bibliography is provided to which readers are referred for precise statements of results and their proofs As the first introductory book on the subject it will be invaluable as a guide to the area for the many students and researchers whose disciplines ranging from physics to finance are influenced by the computational complexity of continuous problems

Geometry, Analysis And Mechanics John Michael Rassias,1995-01-10 This review volume consists of articles by outstanding scientists who explore Archimedes influence on the development of mathematics particularly on Geometry Analysis and Mechanics   Artificial Intelligence and Accounting Manjit Kour,Daniel P. Schutte,2025-08-08 In the dynamic field of accounting where accuracy and productivity are critical artificial intelligence AI integration has become a game changer and AI is set to affect every industry With the speed at which technology is developing a thorough manual that helps readers understand the complex world of AI in accounting is desperately needed By offering a sophisticated grasp of how AI is changing the core ideas of accounting and financial management this book bridges this knowledge gap It explores the relationship between AI technology and accounting processes revealing the significant influence and unrealised potential outside of traditional bookkeeping This book delves into how AI is revolutionising accounting procedures It explores the newest AI technologies and their uses in financial data processing auditing compliance and forecasting ranging from machine learning to predictive analytics It ensures responsible AI integration by addressing biases accountability and transparency while emphasising ethical considerations This book provides case studies practical advice and examples from the real world guaranteeing that readers not only understand the theoretical foundations of AI in accounting but also get the knowledge necessary to apply and maximise these technologies within their professional domains by connecting theory and application It offers a road map for traversing the accounting industry s AI frontier from using predictive analytics to make well informed decisions to automating repetitive activities This book will enable accountants auditors and financial analysts to prosper in the emerging AI driven world   *Mathematical Reviews* ,2003   **Journal of Statistical Planning and Inference** North-Holland Publishing Company,2000   Paris-Princeton Lectures on Mathematical Finance ... ,2004   Studies in Complexity Theory Ronald V. Book,1986   *SIAM Journal on Scientific Computing* ,2006   Tutorials in Mathematical Biosciences ,2008   **Probability and Mathematical Statistics** ,2006   *ACM Transactions on Modeling and Computer Simulation* ,1996   **Encyclopedia of Statistical Sciences: In-L** ,2006   *Quantum Information and Computation for*

Chemistry Sabre Kais,2014-03-24 Examines the intersection of quantum information and chemical physics The Advances in Chemical Physics series is dedicated to reviewing new and emerging topics as well as the latest developments in traditional areas of study in the field of chemical physics Each volume features detailed comprehensive analyses coupled with individual points of view that integrate the many disciplines of science that are needed for a full understanding of chemical physics This volume of the series explores the latest research findings applications and new research paths from the quantum information science community It examines topics in quantum computation and quantum information that are related to or intersect with key topics in chemical physics The reviews address both what chemistry can contribute to quantum information and what quantum information can contribute to the study of chemical systems surveying both theoretical and experimental quantum information research within the field of chemical physics With contributions from an international team of leading experts Volume 154 offers seventeen detailed reviews including Introduction to quantum information and computation for chemistry Quantum computing approach to non relativistic and relativistic molecular energy calculations Quantum algorithms for continuous problems and their applications Photonic toolbox for quantum simulation Vibrational energy and information transfer through molecular chains Tensor networks for entanglement evolution Reviews published in Advances in Chemical Physics are typically longer than those published in journals providing the space needed for readers to fully grasp the topic the fundamentals as well as the latest discoveries applications and emerging avenues of research Extensive cross referencing enables readers to explore the primary research studies underlying each topic **Fluctuation Theory for Lévy Processes** Ronald A. Doney,2007-04-19 L vy processes i e processes in continuous time with stationary and independent increments are named after Paul L vy who made the connection with infinitely divisible distributions and described their structure They form a flexible class of models which have been applied to the study of storage processes insurance risk queues turbulence laser cooling and of course finance where the feature that they include examples having heavy tails is particularly important Their sample path behaviour poses a variety of difficult and fascinating problems Such problems and also some related distributional problems are addressed in detail in these notes that reflect the content of the course given by R Doney in St Flour in 2005 *Construction of Global Lyapunov Functions Using Radial Basis Functions* Peter Giesl,2007-04-04 The basin of attraction of an equilibrium of an ordinary differential equation can be determined using a Lyapunov function A new method to construct such a Lyapunov function using radial basis functions is presented in this volume intended for researchers and advanced students from both dynamical systems and radial basis functions Besides an introduction to both areas and a detailed description of the method it contains error estimates and many examples **Monte-Carlo and Quasi-Monte Carlo Methods 1998** Harald Niederreiter,Jerome Spanier,2000 This book represents the refereed proceedings of the Third International Conference on Monte Carlo and Quasi Monte Carlo Methods in Scientific Computing which was held at Claremont Graduate University in 1998 An important feature are invited surveys of the state of the art in

key areas such as multidimensional numerical integration low discrepancy point sets random number generation and applications of Monte Carlo and quasi Monte Carlo methods These proceedings include also carefully selected contributed papers on all aspects of Monte Carlo and quasi Monte Carlo methods The reader will be informed about current research in this very active area

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