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Approximating
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Markov Chains



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Approximate Iterative Algorithms Anthony Louis Almudevar, 2014-02-18. Iterative algorithms often rely on approximate evaluation techniques which may include statistical estimation, computer simulation, or functional approximation. This volume presents methods for the study of approximate iterative algorithms, providing tools for the derivation of error bounds and convergence rates, and for the optimal design of such.

Constructive Computation in Stochastic Models with Applications Quan-Lin Li, 2011-02-02. Constructive Computation in Stochastic Models with Applications. The RG Factorizations provides a unified constructive and algorithmic framework for numerical computation of many practical stochastic systems. It summarizes recent important advances in computational study of stochastic models from several crucial directions such as stationary computation, transient solution, asymptotic analysis, reward processes, decision processes, sensitivity analysis, as well as game theory. Graduate students, researchers, and practicing engineers in the field of operations research, management sciences, applied probability, computer networks, manufacturing systems, transportation systems, insurance, and finance, risk management, and biological sciences will find this book valuable. Dr. Quan Lin Li is an Associate Professor at the Department of Industrial Engineering of Tsinghua University, China.

Introduction to Matrix Analytic Methods in Stochastic Modeling G. Latouche, V. Ramaswami, 1999-01-01. Presents the basic mathematical ideas and algorithms of the matrix analytic theory in a readable, up-to-date, and comprehensive manner.

Principles of Formal Quantitative Analysis Nathalie Bertrand, Clemens Dubslaff, Sascha Klüppelholz, 2025-08-29. This Festschrift is dedicated to Christel Baier in recognition of her contributions to the field of theoretical computer science, particularly in formal methods, temporal logics, model checking, and probabilistic systems. After earning her doctorate from the University of Mannheim, Christel Baier held research and professorial positions in Mannheim and Bonn. Since 2006, she has been a full professor of Algebraic and Logical Foundations of Computer Science at Technische Universität Dresden, where she currently serves as the Dean of the Faculty of Computer Science. In 2011, she was elected to the Academia Europaea. She was the Editor in Chief of *Acta Informatica* from 2015 to 2022 and received an honorary doctorate from RWTH Aachen University in 2022. Among her many notable research achievements, Christel Baier has shaped the foundations and practical applications of system verification. She pioneered probabilistic model checking, advanced techniques for model checking of continuous-time Markov chains, and coauthored the standard textbook *Principles of Model Checking*. Beyond her research contributions, she is widely respected within the scientific community. Her service has included invited talks, membership in key steering and program

committees and organizing scientific events Christel Baier has mentored and guided many students and fellow scientists They appreciate her way of approaching every task with remarkable persistence focus and diligence Many of these collaborators were pleased to contribute to this volume and to celebrate joint work and successes

Advances in Knowledge Discovery and Data Mining Hisashi Kashima, Tsuyoshi Ide, Wen-Chih Peng, 2023-05-27 The 4 volume set LNAI 13935 13938 constitutes the proceedings of the 27th Pacific Asia Conference on Knowledge Discovery and Data Mining PAKDD 2023 which took place in Osaka Japan during May 25 28 2023 The 143 papers presented in these proceedings were carefully reviewed and selected from 813 submissions They deal with new ideas original research results and practical development experiences from all KDD related areas including data mining data warehousing machine learning artificial intelligence databases statistics knowledge engineering big data technologies and foundations

Automata, Languages and Programming Jos C.M. Baeten, Jan Karel Lenstra, Joachim Parrow, Gerhard J. Woeginger, 2003-01-01 The refereed proceedings of the 30th International Colloquium on Automata Languages and Programming ICALP 2003 held in Eindhoven The Netherlands in June July 2003 The 84 revised full papers presented together with six invited papers were carefully reviewed and selected from 212 submissions The papers are organized in topical sections on algorithms process algebra approximation algorithms languages and programming complexity data structures graph algorithms automata optimization and games graphs and bisimulation online problems verification the Internet temporal logic and model checking graph problems logic and lambda calculus data structures and algorithms types and categories probabilistic systems sampling and randomness scheduling and geometric problems

Mathematical Methods for Construction of Queueing Models Vladimir Viacheslavovich Kalashnikov, 1990 *Journal of Applied Probability*, 2003 *Revue Roumaine de Mathématiques Pures Et Appliquées*, 1985 *Books in Print*, 1994 *Current Engineering Practice*, 1974 **Mathematical Reviews**, 2003

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