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Percolation Theory and Particle Systems



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Percolation Theory And Particle Systems

**Scott B. Baden, Nikos P.
Chrisochoides, Dennis B.
Gannon, Michael L. Norman**



Percolation Theory And Particle Systems:

Percolation Theory and Particle Systems Rahul Roy, 2000 This book comprises the talks presented at the Workshop on Percolation Theory and Particle Systems held at the Indian Statistical Institute The workshop was intended to be instructional in nature and the articles here reflect it The articles present the basic tools and some important results in percolation theory and particles systems

Percolation Theory and Ergodic Theory of Infinite Particle Systems Harry Kesten, 2012-12-06 This IMA Volume in mathematics and its Applications PERCOLATION THEORY AND ERGODIC THEORY OF INFINITE PARTICLE SYSTEMS represents the proceedings of a workshop which was an integral part of the 1984-85 IMA program on STOCHASTIC DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS We are grateful to the Scientific Committee Daniel Stroock Chairman Wendell Fleming Theodore Harris Pierre Louis Lions Steven Orey George Papanicolaou for planning and implementing an exciting and stimulating year long program We especially thank the Workshop Organizing Committee Harry Kesten Chairman Richard Holley and Thomas Liggett for organizing a workshop which brought together scientists and mathematicians in a variety of areas for a fruitful exchange of ideas George R Sell Hans Weinberger

PREFACE Percolation theory and interacting particle systems both have seen an explosive growth in the last decade These subfields of probability theory are closely related to statistical mechanics and many of the publications on these subjects especially on the former appear in physics journals with a great variability in the level of rigour There is a certain similarity and overlap between the methods used in these two areas and not surprisingly they tend to attract the same probabilists It seemed a good idea to organize a workshop on Percolation Theory and Ergodic Theory of Infinite Particle Systems in the framework of the special probability year at the Institute for Mathematics and its Applications in 1985-86 Such a workshop dealing largely with rigorous results was indeed held in February 1986

Percolation Theory and Ergodic Theory of Infinite Particle Systems Harry Kesten, 1987-05-13

Sojourns in Probability Theory and Statistical Physics - III Vladas Sidoravicius, 2019-10-17 Charles M. Newman has been a leader in Probability Theory and Statistical Physics for nearly half a century This three volume set is a celebration of the far reaching scientific impact of his work It consists of articles by Chuck's collaborators and colleagues across a number of the fields to which he has made contributions of fundamental significance This publication was conceived during a conference in 2016 at NYU Shanghai that coincided with Chuck's 70th birthday The sub titles of the three volumes are I Spin Glasses and Statistical Mechanics II Brownian Web and Percolation III Interacting Particle Systems and Random Walks The articles in these volumes which cover a wide spectrum of topics will be especially useful for graduate students and researchers who seek initiation and inspiration in Probability Theory and Statistical Physics

[Algorithms for Parallel Processing](#) Michael T. Heath, Abhiram Ranade, Robert S. Schreiber, 2012-12-06 This IMA Volume in Mathematics and its Applications ALGORITHMS FOR PARALLEL PROCESSING is based on the proceedings of a workshop that was an integral

part of the 1996 97 IMA program on MATHEMATICS IN HIGH PERFORMANCE COMPUTING The workshop brought together algorithm developers from theory combinatorics and scientific computing The topics ranged over models linear algebra sorting randomization and graph algorithms and their analysis We thank Michael T Heath of University of Illinois at Urbana Computer Science Abhiram Ranade of the Indian Institute of Technology Computer Science and Engineering and Robert S Schreiber of Hewlett Packard Laboratories for their excellent work in organizing the workshop and editing the proceedings We also take this opportunity to thank the National Science Foundation NSF and the Army Research Office ARO whose financial support made the workshop possible

A vner Friedman Robert Gulliver v PREFACE The Workshop on Algorithms for Parallel Processing was held at the IMA September 16 20 1996 it was the first workshop of the IMA year dedicated to the mathematics of high performance computing The workshop organizers were Abhiram Ranade of The Indian Institute of Technology Bombay Michael Heath of the University of Illinois and Robert Schreiber of Hewlett Packard Laboratories Our idea was to bring together researchers who do innovative exciting parallel algorithms research on a wide range of topics and by sharing insights problems tools and methods to learn something of value from one another

Genetic Mapping and DNA Sequencing Terry Speed, Michael Waterman, 2012-12-06 Genetics mapping physical mapping and DNA sequencing are the three key components of the human and other genome projects Statistics mathematics and computing play important roles in all three as well as in the uses to which the mapping and sequencing data are put This volume edited by key researchers Mike Waterman and Terry Speed reviews recent progress in the area with an emphasis on the theory and application of genetic mapping

Rational Drug Design Donald G. Truhlar, W. Jeffrey Howe, Anthony J. Hopfinger, Jeff Blaney, Richard E. Dammkoehler, 2012-12-06 Drug research and discovery are of critical importance in human health care Computational approaches for drug lead discovery and optimization have proven successful in many recent research programs These methods have grown in their effectiveness not only because of improved understanding of the basic science the biological events and molecular interactions that define a target for therapeutic intervention but also because of advances in algorithms representations and mathematical procedures for studying such processes This volume surveys some of those advances A broad landscape of high profile topics in computer assisted molecular design CAMD directed to drug design are included Subject areas represented in the volume include receptor based applications such as binding energy approximations molecular docking and de novo design non receptor based applications such as molecular similarity molecular dynamics simulations solvation and partitioning of a solute between aqueous and nonpolar media graph theory non linear multidimensional optimization processing of information obtained from simulation studies global optimization and search strategies and performance enhancement through parallel computing

Quasiclassical Methods Jeffrey Rauch, Barry Simon, 2012-12-06 This IMA Volume in Mathematics and its Applications QUASICLASSICAL METHODS is based on the proceedings of a very successful one week workshop with the same title which was an integral part of the 1994 1995 IMA

program on Waves and Scattering We would like to thank Jeffrey Rauch and Barry Simon for their excellent work as organizers of the meeting We also take this opportunity to thank the National Science Foundation NSF the Army Research Office ARO and the Office of Naval Research ONR whose financial support made the workshop possible

A vner Friedman

Robert Gulliver v

PREFACE There are a large number of problems where qualitative features of a partial differential equation in an appropriate regime are determined by the behavior of an associated ordinary differential equation The example which gives the area its name is the limit of quantum mechanical Hamiltonians Schrodinger operators as Planck's constant \hbar goes to zero which is determined by the corresponding classical mechanical system A second example is linear wave equations with highly oscillatory initial data The solutions are described by geometric optics whose centerpiece are rays which are solutions of ordinary differential equations analogous to the classical mechanics equations in the example above Much recent work has concerned with understanding terms beyond the leading term determined by the quasi-classical limit Two examples of this involve Weyl asymptotics and the large Z limit of atomic Hamiltonians both areas of current research

Structured Adaptive Mesh Refinement (SAMR) Grid Methods Scott B. Baden, Nikos P. Chrisochoides, Dennis B. Gannon, Michael L. Norman, 2012-12-06 Structured adaptive mesh refinement SAMR methods have matured over the past 20 years and are now the method of choice for certain difficult problems such as compressible flow SAMR presents difficult technical challenges both in terms of the numerical techniques involved and the complexity of the programming effort especially on parallel computers In order to gain insight into managing these difficulties much research effort has been directed at mesh generation parallel computation and improvements in accuracy aimed primarily at refinement interfaces A major stumbling block in this endeavor is that many of these techniques entail substantial amounts of problem specific detail Standardization is highly unlikely except within narrowly defined problem domains The papers presented in this collection are based on talks given at the Workshop on Structured Adaptive Mesh Refinement Grid Methods held at the Institute for Mathematics and its Applications University of Minnesota on March 12-13 1997 They describe research to improve the general understanding of the application of SAMR to practical problems identify issues critical to efficient and effective implementation on high performance computers stimulate the development of a community code repository for software including benchmarks to assist in the evaluation of software and compiler technologies The ten chapters of this volume have been divided into two parts reflecting two major issues in the topic I programming complexity of SAMR algorithms and II applicability and numerical challenges of SAMR methods Part I presents three programming environments and two libraries that address the concerns of efficient execution and reduced software development times of SAMR applications Part II describes an overview of applications that can benefit from SAMR methods ranging from crack propagation and industrial boilers to

Classical and Modern Branching Processes Krishna B. Athreya, Peter Jagers, 2012-12-06 This IMA Volume in Mathematics and its Applications CLASSICAL AND MODERN BRANCHING PROCESSES is based on the proceedings with

the same title and was an integral part of the 1993-94 IMA program on Emerging Applications of Probability. We would like to thank Krishna B. Athreya and Peter Jagers for their hard work in organizing this meeting and in editing the proceedings. We also take this opportunity to thank the National Science Foundation, the Army Research Office and the National Security Agency whose financial support made this workshop possible.

PREFACE

The IMA workshop on Classical and Modern Branching Processes was held during June 13-17, 1994 as part of the IMA year on Emerging Applications of Probability. The organizers of the year-long program identified branching processes as one of the active areas in which a workshop should be held. Krishna B. Athreya and Peter Jagers were asked to organize this. The topics covered by the workshop could broadly be divided into the following areas:

- 1 Tree structures and branching processes
- 2 Branching random walks
- 3 Measure-valued branching processes
- 4 Branching with dependence
- 5 Large deviations in branching processes
- 6 Classical branching processes

Computational Radiology and Imaging

Christoph Börgers, Frank Natterer, 2012-12-06

The articles collected in this volume are based on lectures given at the IMA Workshop Computational Radiology and Imaging Therapy and Diagnostics, March 17-21, 1997. Introductory articles by the editors have been added. The focus is on inverse problems involving electromagnetic radiation and particle beams with applications to X-ray tomography, nuclear medicine, near-infrared imaging, microwave imaging, electron microscopy and radiation therapy planning. Mathematical and computational tools and models which play important roles in this volume include the X-ray transform and other integral transforms, the linear Boltzmann equation and for near-infrared imaging its diffusion approximation, iterative methods for large linear and non-linear least squares problems, iterative methods for linear feasibility problems and optimization methods. The volume is intended not only for mathematical scientists and engineers working on these and related problems but also for non-specialists. It contains much introductory expository material and a large number of references. Many unsolved computational and mathematical problems of substantial practical importance are pointed out.

Image Models (and their Speech Model Cousins)

Stephen Levinson, Larry Shepp, 2012-12-06

This IMA Volume in Mathematics and its Applications, **IMAGE MODELS AND THEIR SPEECH MODEL COUSINS**, is based on the proceedings of a workshop that was an integral part of the 1993-94 IMA program on Emerging Applications of Probability. We thank Stephen E. Levinson and Larry Shepp for organizing the workshop and for editing the proceedings. We also take this opportunity to thank the National Science Foundation, the Army Research Office and the National Security Agency whose financial support made the workshop possible.

PREFACE

This volume is an attempt to explore the interface between two diverse areas of applied mathematics that are both customers of the maximum likelihood methodology: emission tomography on the one hand and hidden Markov models as an approach to speech understanding on the other hand. There are other areas where maximum likelihood is used, some of which are represented in this volume: parsing of text, Jelinek's microstructure of materials, Ji and DNA sequencing, Nelson. Most of the participants were in the main areas of speech or

emission density reconstruction Of course there are many other areas where maximum likelihood is used that are not represented here *Mathematics in Industrial Problems* Avner Friedman, 2012-12-06 This is the eighth volume in the series *Mathematics in Industrial Problems* The motivation for these volumes is to foster interaction between Industry and Mathematics at the grass roots level that is at the level of specific problems These problems come from Industry they arise from models developed by the industrial scientists in ventures directed at the manufacture of new or improved products At the same time these problems have the potential for mathematical challenge and novelty To identify such problems I have visited industries and had discussions with their scientists Some of the scientists have subsequently presented their problems in the IMA Seminar on Industrial Problems The book is based on the seminar presentations and on questions raised in subsequent discussions Each chapter is devoted to one of the talks and is self contained The chapters usually provide references to the mathematical literature and a list of open problems that are of interest to industrial scientists For some problems a partial solution is indicated briefly The last chapter of the book contains a short description of solutions to some of the problems raised in the previous volume as well as references to papers in which such solutions have been published

Mathematical Approaches for Emerging and Reemerging Infectious Diseases: An Introduction Carlos Castillo-Chavez, 2002-05-02 This book grew out of the discussions and presentations that began during the Workshop on Emerging and Reemerging Diseases May 17-21 1999 sponsored by the Institute for Mathematics and its Application IMA at the University of Minnesota with the support of NIH and NSF The workshop started with a two day tutorial session directed at ecologists epidemiologists immunologists mathematicians and scientists interested in the study of disease dynamics The core of this first volume Volume 125 covers tutorial and research contributions on the use of dynamical systems deterministic discrete delay PDEs and ODEs models and stochastic models in disease dynamics The volume includes the study of cancer HIV pertussis and tuberculosis Beginning graduate students in applied mathematics scientists in the natural social or health sciences or mathematicians who want to enter the fields of mathematical and theoretical epidemiology will find this book useful *Stochastic Models in Geosystems* Stanislav A. Molchanov, Wojbor A. Woyczynski, 2012-12-06 This IMA Volume in *Mathematics and its Applications* STOCHASTIC MODELS IN GEOSYSTEMS is based on the proceedings of a workshop with the same title and was an integral part of the 1993-94 IMA program on Emerging Applications of Probability We would like to thank Stanislav A Molchanov and Wojbor A Woyczynski for their hard work in organizing this meeting and in editing the proceedings We also take this opportunity to thank the National Science Foundation the Office of Naval Research the Army Research Office and the National Security Agency whose financial support made this workshop possible Avner Friedman Willard Miller Jr v PREFACE A workshop on Stochastic Models in Geosystems was held during the week of May 16 1994 at the Institute for Mathematics and its Applications at the University of Minnesota It was part of the Special Year on Emerging Applications of Probability program put together by an organizing committee chaired by J Michael Steele The invited

speakers represented a broad interdisciplinary spectrum including mathematics statistics physics geophysics astrophysics atmospheric physics fluid mechanics seismology and oceanography The common underlying theme was stochastic modeling of geophysical phenomena and papers appearing in this volume reflect a number of research directions that are currently pursued in these areas

Statistics in Genetics M.Elizabeth Halloran,Seymour Geisser,1999-06-04 Though the Genome Project will eventually result in the sequencing of the human genome as well as the genomes of several other organisms there will still be a need for good statistics for family studies of complex diseases The papers in this volume are contributions by some of the leading researchers in the field to the current topics in statistical genetics One section deals with DNA sequence matching and issues related to forensics while another deals with statistical problems of modeling phylogenies and inferential difficulties related to the complex tree structures produced as well as the method of coalescence

Parallel Solution of Partial Differential Equations Petter Bjorstad,Mitchell Luskin,2012-12-06 This IMA Volume in Mathematics and its Applications PARALLEL SOLUTION OF PARTIAL DIFFERENTIAL EQUATIONS is based on the proceedings of a workshop with the same title The workshop was an integral part of the 1996-97 IMA program on MATHEMATICS IN HIGH PERFORMANCE COMPUTING I would like to thank Petter Bjorstad of the Institutt for Informatikk University of Bergen and Mitchell Luskin of the School of Mathematics University of Minnesota for their excellent work as organizers of the meeting and for editing the proceedings I also take this opportunity to thank the National Science Foundation NSF Department of Energy DOE and the Army Research Office ARO whose financial support made the workshop possible Willard Miller Jr Professor and Director

PREFACE The numerical solution of partial differential equations has been of major importance to the development of many technologies and has been the target of much of the development of parallel computer hardware and software Parallel computers offer the promise of greatly increased performance and the routine calculation of previously intractable problems The papers in this volume were presented at the IMA workshop on the Parallel Solution of PDE held during June 9-13 1997 The workshop brought together leading numerical analysts computer scientists and engineers to assess the state of the art and to consider future directions

Statistical Models in Epidemiology, the Environment, and Clinical Trials M.Elizabeth Halloran,Donald Berry,2012-12-06 This IMA Volume in Mathematics and its Applications STATISTICAL MODELS IN EPIDEMIOLOGY THE ENVIRONMENT AND CLINICAL TRIALS is a combined proceedings on Design and Analysis of Clinical Trials and Statistics and Epidemiology Environment and Health This volume is the third series based on the proceedings of a very successful 1997 IMA Summer Program on Statistics in the Health Sciences I would like to thank the organizers M.Elizabeth Halloran of Emory University Biostatistics and Donald A.Berry of Duke University Institute of Statistics and Decision Sciences and Cancer Center Biostatistics for their excellent work as organizers of the meeting and for editing the proceedings I am grateful to Seymour Geisser of University of Minnesota Statistics Patricia Grambsch University of Minnesota Biostatistics Joel Greenhouse Carnegie Mellon University Statistics Nicholas Lange Harvard Medical

School Brain Imaging Center McLean Hospital Barry Margolin University of North Carolina Chapel Hill Biostatistics Sandy Weisberg University of Minnesota Statistics Scott Zeger Johns Hopkins University Biostatistics and Marvin Zelen Harvard School of Public Health Biostatistics for organizing the six weeks summer program I also take this opportunity to thank the National Science Foundation NSF and the Army Research Office ARO whose financial support made the workshop possible Willard Miller Jr

Nonlinear Optical Materials Jerome V. Moloney, 2012-12-06 Mathematical methods play a significant role in the rapidly growing field of nonlinear optical materials This volume discusses a number of successful or promising contributions The overall theme of this volume is twofold 1 the challenges faced in computing and optimizing nonlinear optical material properties and 2 the exploitation of these properties in important areas of application These include the design of optical amplifiers and lasers as well as novel optical switches Research topics in this volume include how to exploit the magnetooptic effect how to work with the nonlinear optical response of materials how to predict laser induced breakdown in efficient optical devices and how to handle electron cloud distortion in femtosecond processes

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