

Computational Complexity and Statistical Physics

Edited by
Allon Percus
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A VOLUME IN THE
SANTA FE INSTITUTE STUDIES IN THE SCIENCES OF COMPLEXITY

Computational Complexity And Statistical Physics

Kenneth J. Moriarty



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Computational Complexity and Statistical Physics Allon Percus, Gabriel Istrate, Cristopher Moore, 2006-02-23

Computer science and physics have been closely linked since the birth of modern computing. In recent years an interdisciplinary area has blossomed at the junction of these fields connecting insights from statistical physics with basic computational challenges. Researchers have successfully applied techniques from the study of phase transitions to analyze NP complete problems such as satisfiability and graph coloring. This is leading to a new understanding of the structure of these problems and of how algorithms perform on them. Computational Complexity and Statistical Physics will serve as a standard reference and pedagogical aid to statistical physics methods in computer science with a particular focus on phase transitions in combinatorial problems. Addressed to a broad range of readers the book includes substantial background material along with current research by leading computer scientists, mathematicians and physicists. It will prepare students and researchers from all of these fields to contribute to this exciting area. Parallel Computational Complexity in Statistical Physics Kenneth J. Moriarty, 1998

Information, Physics, and Computation Marc Mézard, Andrea Montanari, 2009-01-22 A very active field of research is emerging at the frontier of statistical physics, theoretical computer science, discrete mathematics and coding information theory. This book sets up a common language and pool of concepts accessible to students and researchers from each of these fields. **Unifying Themes In Complex Systems, Volume 1** Yaneer

Bar-yam, 2018-05-04 The study of complex systems has attracted a broad range of researchers from many disciplines spanning both the hard and soft sciences. In the Autumn of 1997 300 of these researchers came together for the First International Conference on Complex Systems. The proceedings of this conference is the first book in the New England Complex Systems Institute Series on Complexity and includes more than 100 presentations and papers on topics like evolution, emergence, complexity, self organization, scaling, informatics, time series, emergence of mind and engineering of complex systems. *New Computational Paradigms* Barry S. Cooper, 2005-05-23 This book constitutes the refereed

proceedings of the first International Conference on Computability in Europe CiE 2005 held in Amsterdam The Netherlands in June 2005. The 68 revised full papers presented were carefully reviewed and selected from 144 submissions. Among them are papers corresponding to two tutorials, six plenary talks and papers of six special sessions involving mathematical logic and computer science at the same time as offering the methodological foundations for models of computation. The papers address many aspects of computability in Europe with a special focus on new computational paradigms. These include first of all connections between computation and physical systems e.g. quantum and analog computation, neural nets, molecular computation but also cover new perspectives on models of computation arising from basic research in mathematical logic and theoretical computer science. **Information, Physics, and Computation** Marc Mézard, Andrea

Montanari, 2009-01-22 This book presents a unified approach to a rich and rapidly evolving research domain at the interface

between statistical physics theoretical computer science discrete mathematics and coding information theory It is accessible to graduate students and researchers without a specific training in any of these fields The selected topics include spin glasses error correcting codes satisfiability and are central to each field The approach focuses on large random instances and adopts a common probabilistic formulation in terms of graphical models It presents message passing algorithms like belief propagation and survey propagation and their use in decoding and constraint satisfaction solving It also explains analysis techniques like density evolution and the cavity method and uses them to study phase transitions

Unifying Themes In Complex Systems Yaneer Bar-yam,1999 The study of complex systems has attracted a broad range of researchers from many disciplines spanning both the hard and soft sciences In the Autumn of 1997 300 of these researchers came together for the First International Conference on Complex Systems The proceedings of this conference is the first book in the New England Complex Systems Institute series on Complexity and includes more than 100 presentations and papers on such topics as evolution emergence complexity self organisation scaling informatics time series emergence of mind and engineering of complex systems This research is expected to be a precursor to an explosive growth of interest in this field

Statistical Physics, Optimization, Inference, and Message-Passing Algorithms Florent Krzakala,Federico Ricci-Tersenghi,Lenka Zdeborova,Riccardo Zecchina,Eric W. Tramel,Leticia F. Cugliandolo,2015-12-17 In the last decade there have been an increasing convergence of interest and methods between theoretical physics and fields as diverse as probability machine learning optimization and compressed sensing In particular many theoretical and applied works in statistical physics and computer science have relied on the use of message passing algorithms and their connection to statistical physics of spin glasses The aim of this book especially adapted to PhD students post docs and young researchers is to present the background necessary for entering this fast developing field

Proceedings of the ...ACM Symposium on Theory of Computing ,2002 [Encyclopedia of Mathematical Physics](#) Jean-Pierre Francoise,Gregory L. Naber,Sheung Tsun Tsou,2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher s own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus

dynamic linking to journal articles and abstract databases making navigation flexible and easy

Combinatorics and Complexity of Partition Functions Alexander Barvinok, 2017-03-13 Partition functions arise in combinatorics and related problems of statistical physics as they encode in a succinct way the combinatorial structure of complicated systems The main focus of the book is on efficient ways to compute approximate various partition functions such as permanents hafnians and their higher dimensional versions graph and hypergraph matching polynomials the independence polynomial of a graph and partition functions enumerating 0 1 and integer points in polyhedra which allows one to make algorithmic advances in otherwise intractable problems The book unifies various often quite recent results scattered in the literature concentrating on the three main approaches scaling interpolation and correlation decay The prerequisites include moderate amounts of real and complex analysis and linear algebra making the book accessible to advanced math and physics undergraduates

Strategic Management of Marine Ecosystems Eugene Levner, Igor Linkov, Jean-Marie Proth, 2006-05-06 The demand for advanced management methods and tools for marine ecosystems is increasing worldwide Today many marine ecosystems are significantly affected by disastrous pollution from industrial agricultural municipal transportational and other anthropogenic sources The issues of environmental integrity are especially acute in the Mediterranean and Red Sea basins the cradle of modern civilization The drying of the Dead Sea is one of the most vivid examples of environmental disintegration with severe negative consequences on the ecology industry and wildlife in the area Strategic management and coordination of international remedial and restoration efforts is required to improve environmental conditions of marine ecosystems in the Middle East as well as in other areas The NATO Advanced Study Institute ASI held in Nice in October 2003 was designed to 1 provide a discussion forum for the latest developments in the field of environmentally conscious strategic management of marine environments and 2 integrate expertise of ecologists biologists economists and managers from European American Canadian Russian and Israeli organizations in developing a framework for strategic management of marine ecosystems The ASI addressed the following issues Key environmental management problems in exploited marine ecosystems Measuring and monitoring of municipal industrial and agricultural effluents Global contamination of seawaters and required remedial efforts Supply Chain Management approach for strategic coastal zones management and planning Development of environmentally friendly technologies for coastal zone development Modeling for sustainable aquaculture and Social political and economic challenges in marine ecosystem management

Disorder in Physical Systems John Michael Hammersley, Geoffrey Grimmett, D. J. A. Welsh, 1990 This volume is dedicated to John Hammersley one of the most influential of all researchers in random phenomena It provides a unique survey of the current state of mathematical research in this field which has seen great advances in recent decades As Hammersley's colleagues and collaborators the contributors are all leading figures in their respective fields They describe progress in such areas as percolation theory random networks lattice animals stochastic geometry diffusions covering problems Monte Carlo methods and operations research Computational complexity random

fields convergence on random variables classical and quantum mechanics and analytic number theory are also covered Researchers and graduate students in a variety of disciplines will find this an authoritative and up to date survey of many of the most exciting developments in mathematics today *Statistical Physics and Computational Methods for Evolutionary Game Theory* Marco Alberto Javarone,2018-01-11 This book presents an introduction to Evolutionary Game Theory EGT which is an emerging field in the area of complex systems attracting the attention of researchers from disparate scientific communities EGT allows one to represent and study several complex phenomena such as the emergence of cooperation in social systems the role of conformity in shaping the equilibrium of a population and the dynamics in biological and ecological systems Since EGT models belong to the area of complex systems statistical physics constitutes a fundamental ingredient for investigating their behavior At the same time the complexity of some EGT models such as those realized by means of agent based methods often require the implementation of numerical simulations Therefore beyond providing an introduction to EGT this book gives a brief overview of the main statistical physics tools such as phase transitions and the Ising model and computational strategies for simulating evolutionary games such as Monte Carlo algorithms on lattices This book will appeal to students and researchers in this burgeoning field of complex systems Approximation Algorithms for NP-hard Problems Dorit S. Hochbaum,1997 This is the first book to fully address the study of approximation algorithms as a tool for coping with intractable problems With chapters contributed by leading researchers in the field this book introduces unifying techniques in the analysis of approximation algorithms APPROXIMATION ALGORITHMS FOR NP HARD PROBLEMS is intended for computer scientists and operations researchers interested in specific algorithm implementations as well as design tools for algorithms Among the techniques discussed the use of linear programming primal dual techniques in worst case analysis semidefinite programming computational geometry techniques randomized algorithms average case analysis probabilistically checkable proofs and inapproximability and the Markov Chain Monte Carlo method The text includes a variety of pedagogical features definitions exercises open problems glossary of problems index and notes on how best to use the book

Constraint Programming and Decision Making Martine Ceberio,Vladik Kreinovich,2014-01-21 In many application areas it is necessary to make effective decisions under constraints Several area specific techniques are known for such decision problems however because these techniques are area specific it is not easy to apply each technique to other applications areas Cross fertilization between different application areas is one of the main objectives of the annual International Workshops on Constraint Programming and Decision Making Those workshops held in the US El Paso Texas in Europe Lyon France and in Asia Novosibirsk Russia from 2008 to 2012 have attracted researchers and practitioners from all over the world This volume presents extended versions of selected papers from those workshops These papers deal with all stages of decision making under constraints 1 formulating the problem of multi criteria decision making in precise terms 2 determining when the corresponding decision problem is algorithmically solvable 3 finding the corresponding algorithms and

making these algorithms as efficient as possible and 4 taking into account interval probabilistic and fuzzy uncertainty inherent in the corresponding decision making problems The resulting application areas include environmental studies selecting the best location for a meteorological tower biology selecting the most probable evolution history of a species and engineering designing the best control for a magnetic levitation train **Parallel and Distributed Computing** Michel Cosnard,Afonso Ferreira,Joseph Peters,1994 This volume presents the proceedings of the First Canada France Conference on Parallel Computing despite its name this conference was open to full international contribution and participation as shown by the list of contributing authors This volume consists of in total 22 full papers either invited or accepted and revised after a thorough reviewing process All together the papers provide a highly competent perspective on research in parallel algorithms and complexity interconnection networks and distributed computing algorithms for unstructured problems and structured communications from the point of view of parallel and distributed computing PUBLISHER S WEBSITE

Complex Systems ,1996 Dissertation Abstracts International ,2007 **Recent Developments and the New Directions of Research, Foundations, and Applications** Shahnaz N. Shahbazova,Ali M. Abbasov,Vladik Kreinovich,Janusz Kacprzyk,Ildar Z. Batyrshin,2023-06-26 This book is a collection of papers presented during the 8th World Conference on Soft Computing in February 2022 The papers cover multiple areas important for soft computing Some papers are dedicated to fundamental aspects of soft computing i e fuzzy mathematics type 2 fuzzy sets evolutionary based optimization aggregation and neural networks Others emphasize the application of soft computing methods to data analysis image processing decision making classification series prediction economics control and modeling

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