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Social media platforms like TikTok and Instagram try to monitor for content related to the problem, but it is not always clear what to do about it.

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Exploring the application and formulation of the EM algorithm, The EM Algorithm and Related Statistical Models offers a valuable method for constructing statistical models when only incomplete information is available, and proposes specific estimation algorithms for solutions to incomplete data problems. The text covers current topics including statistical models with latent variables, as well as neural network models, and Markov Chain Monte Carlo methods. It describes software resources valuable for the processing of the EM algorithm with incomplete data and for general analysis of latent structure models of categorical data, and studies accelerated versions of the EM algorithm.

The papers in this volume were presented at SWAT 92, the Third Scandinavian Workshop on Algorithm Theory. The workshop, which continues the tradition ofSWAT 88, SWAT 90, and the Workshop on Algorithms and Data Structures (WADS 89, WADS 91), is intended as an international forum for researchers in the area of design and analysis of algorithms. The volume contains invited papers by L.G. Valiant (Direct bulk-synchronous parallel algorithms), A.A. Razborov (On small depth threshold circuits), G. Gonnet (Efficient two-dimensional searching), and E. Welzl (New results on linear programming and related problems), together with 34 selected contributed papers. Contributions cover algorithms and data structures in all areas, including combinatorics, computational geometry, data bases, parallel and distributed computing, and graphics.

This book constitutes the proceedings of the 10th International Conference on Advanced Data Mining and Applications, ADMA 2014, held in Guilin, China during December 2014. The 48 regular papers and 10 workshop papers presented in this volume were carefully reviewed and selected from 90 submissions. They deal with the following topics: data mining, social network and social media, recommend systems, database, dimensionality reduction, advance machine learning techniques, classification, big data and applications, clustering methods, machine learning, and data mining and database.

This volume presents the proceedings of the fourth annual International Symposium on Algorithms and Computation, held in Hong Kong in December 1993.Numerous selected papers present original research in such areas as design and analysis of algorithms, computational complexity, and theory of computation. Topics covered include: - automata, languages, and computability, - combinatorial, graph, geometric, and randomized algorithms, - networks and distributed algorithms, - VLSIand parallel algorithms, - theory of learning and robotics, - number theory and robotics. Three invited papers are also included.

This book explains how computer software is designed to perform the tasks required for sophisticated statistical analysis. For statisticians, it examines the nitty-gritty computational problems behind statistical methods. For mathematicians and computer scientists, it looks at the application of mathematical tools to statistical problems. The first half of the book offers a basic background in numerical analysis that emphasizes issues important to statisticians. The next several chapters cover a broad array of statistical tools, such as maximum likelihood and nonlinear regression. The author also treats the application of numerical tools; numerical integration and random number generation are explained in a unified manner reflecting complementary views of Monte Carlo methods. Each chapter contains exercises that range from simple questions to research problems. Most of the examples are accompanied by demonstration and source code available from the author's website. New in this second edition are demonstrations coded in R, as well as new sections on linear programming and the Nelder–Mead search algorithm.

This volume contains recent results in quantum probability and related topics. The contributions include peer-reviewed papers on interacting Fock space and orthogonal polynomials, quantum Markov semigroups, infinitely divisible processes, free probability, white noise, quantum filtering and control, quantum information, dilations, applications of quantum probability in physics, and quantum and classical models in biology. This diversity reflects the strong and constructive relations between quantum probability and different sectors of mathematics, physics, and other sciences and technologies.

This book constitutes the refereed proceedings of the 1998 International Conference on Analytic Tableaux and Related Methods, TABLEUX'98, held in Oisterwijk near Tilburg, The Netherlands, in May 1998. The volume presents 17 revised full papers and three system descriptions selected from 34 submissions; also included are several abstracts of invited lectures, tutorials, and system comparison papers. The book presents new research results for automated deduction in various non-standard logics as well as in classical logic. Areas of application include software verification, systems verification, deductive databases, knowledge representation and its required inference engines, and system diagnosis.

This festschrift represents the proceedings of a conference held in honor of Bennet B. Murdock, one of the foremost researchers and theoreticians on human memory and cognition. A highly renowned investigator respected for both his empirical and theoretical contributions to the field, Murdock summarized and focused a large amount of research activity with his 1974 book Human Memory: Theory and Data. This unique collection of articles addresses many of the issues discussed in his classic text. Divided into five principal sections, its coverage includes: theoretical perspectives on human memory ranging from a biological view to an exposition of the value of formal models; recent progress in the study of processes in immediate memory and recognition memory; and new developments in componential and distributed approaches to the modeling of human memory. Each section concludes with an integrative commentary provided by some of Murdock ' s eminent colleagues from the University of Toronto. Thus, this book offers a diversity of perspectives on contemporary topics in the discipline, and will be of interest to students and scholars in all branches of cognitive science.

This book constitutes the refereed proceedings of the Third International Workshop on Algorithm Engineering, WAE'99, held in London, UK in July 1999. The 24 revised full papers presented were carefully reviewed and selected from a total of 46 submissions. The papers present original research results in all aspects of algorithm engineering including implementation, experimental testing, fine-tuning of discrete algorithms, development of repositories of software, methodological issues such as standards for empirical research on algorithms and data structures, and issues in the process of converting user requirements into efficient algorithmic solutions and implementations.

This book constitutes the refereed proceedings of the 10th Annual European Symposium on Algorithms, ESA 2002, held in Rome, Italy, in September 2002. The 74 revised full papers presented were carefully reviewed and selected from a total of 201 submissions. The papers address all current issues in Algorithmics, in particular computational biology, computational finance, computational geometry, databases and information retrieval, external memory algorithms, graph and network algorithms, graph drawing, algorithmic learning, network design, online algorithms, parallel and distributed computing, pattern matching, data compression, quantum computing, randomized algorithms, and symbolic computation.

