

Visualization In Medicine Theory Algorithms And Applications

Algorithms and Applications for Academic Search, Recommendation and Quantitative Association Rule Mining
Algorithm Design and Applications
Sparse Modeling
Search Algorithms and Applications
Practical Optimization
Network Optimization
Optimization Problems: Algorithms, Applications And Complexity
Big Data Analytics: Systems, Algorithms, Applications
Algorithms and Data Structures
Supercomputation In Nonlinear And Disordered Systems: Algorithms, Applications And Architectures
Machine Learning Algorithms and Applications
Computational Geometry
Stochastic Approximation and Recursive Algorithms and Applications
Practical Bilevel Optimization
Approximation and Optimization
Algorithms: Main Ideas and Applications
Grammatical Inference: Algorithms and Applications
Optimization
Graph Theory with Algorithms and its Applications
Deep Learning: Algorithms and Applications
Applications and Algorithms in Computer Science
Emmanouil Amolochitis Michael T. Goodrich Irina Rish Nashat Mansour Andreas Antoniou Ding-zhu Du C.S.R. Prabhu Jurg Nievergelt Luis Vazquez Mettu Srinivas Mark de Berg Harold Kushner Jonathan F. Bard Ioannis C. Demetriou Vladimir Uspensky Arlindo L. Oliveira Rajesh Kumar Arora Santanu Saha Ray Witold Pedrycz Charles William Gear
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Algorithms: Main

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algorithms and applications for academic search recommendation and quantitative association rule mining presents novel algorithms for academic search recommendation and association rule mining that have been developed and optimized for different commercial as well as academic purpose systems along with the design and implementation of algorithms a major part of the work presented in the book involves the development of new systems both for commercial as well as for academic use in the first part of the book the author introduces a novel hierarchical heuristic scheme for re ranking academic publications retrieved from standard digital libraries the scheme is based on the hierarchical combination of a custom implementation of the term frequency heuristic a time depreciated citation score and a graph theoretic computed score that relates the paper s index terms with each other in order to evaluate the performance of the introduced algorithms a meta search engine has been designed and developed that submits user queries to standard digital repositories of academic publications and re ranks the top n results using the introduced hierarchical heuristic scheme in the second part of the book the design of novel recommendation algorithms with application in different types of e commerce systems are described the newly introduced algorithms are a part of a developed movie recommendation system the first such system to be commercially deployed in greece by a major triple play services provider the initial version of the system uses a novel hybrid recommender user item and content based and provides daily recommendations to all active subscribers of the provider currently more than 30 000 the recommenders that we are presenting are hybrid by nature using an ensemble configuration of different content user as well as item based recommenders in order to provide more accurate recommendation results the final part of the

book presents the design of a quantitative association rule mining algorithm quantitative association rules refer to a special type of association rules of the form that antecedent implies consequent consisting of a set of numerical or quantitative attributes the introduced mining algorithm processes a specific number of user histories in order to generate a set of association rules with a minimally required support and confidence value the generated rules show strong relationships that exist between the consequent and the antecedent of each rule representing different items that have been consumed at specific price levels this research book will be of appeal to researchers graduate students professionals engineers and computer programmers

algorithm design and applications this is a wonderful book covering both classical and contemporary topics in algorithms i look forward to trying it out in my algorithms class i especially like the diversity in topics and difficulty of the problems robert tarjan princeton university the clarity of explanation is excellent i like the inclusion of the three types of exercises very much ming yang kao northwestern university goodrich and tamassia have designed a book that is both remarkably comprehensive in its coverage and innovative in its approach their emphasis on motivation and applications throughout the text as well as in the many exercises provides a book well designed for the boom in students from all areas of study who want to learn about computing the book contains more than one could hope to cover in a semester course giving instructors a great deal of flexibility and students a reference that they will turn to well after their class is over michael mitzenmacher harvard university i highly recommend this accessible roadmap to the world of algorithm design the authors provide motivating examples of problems faced in the real world and guide the reader to develop workable solutions with a number of challenging exercises to promote deeper understanding jeffrey s vitter university of kansas didyouknow this book is available as a wiley e text the wiley e text is a complete digital version of the text that makes time spent studying more efficient course materials can be accessed on a desktop laptop or mobile device so that learning can take place anytime anywhere a more affordable alternative to traditional print the wiley e text creates a flexible user experience access on the go search across content highlight and

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sparse models are particularly useful in scientific applications such as biomarker discovery in genetic or neuroimaging data where the interpretability of a predictive model is essential sparsity can also dramatically improve the cost efficiency of signal processing sparse modeling theory algorithms and applications provides an introduction to the growing field of sparse modeling including application examples problem formulations that yield sparse solutions algorithms for finding such solutions and recent theoretical results on sparse recovery the book gets you up to speed on the latest sparsity related developments and will motivate you to continue learning about the field the authors first present motivating examples and a high level survey of key recent developments in sparse modeling the book then describes optimization problems involving commonly used sparsity enforcing tools presents essential theoretical results and discusses several state of the art algorithms for finding sparse solutions the authors go on to address a variety of sparse recovery problems that extend the basic formulation to more sophisticated forms of structured sparsity and to different loss functions they also examine a particular class of sparse graphical models and cover dictionary learning and sparse matrix factorizations

search algorithms aim to find solutions or objects with specified properties and constraints in a large solution search space or among a collection of objects a solution can be a set of value assignments to variables that will satisfy the constraints or a sub structure of a given discrete structure in addition there are search algorithms mostly probabilistic that are designed for the prospective quantum computer this book demonstrates the wide applicability of search algorithms for the purpose of developing useful and practical solutions to problems that arise in a variety of problem domains although it is targeted to a wide group of readers researchers graduate students and practitioners it does not

offer an exhaustive coverage of search algorithms and applications the chapters are organized into three parts population based and quantum search algorithms search algorithms for image and video processing and search algorithms for engineering applications

practical optimization algorithms and engineering applications is a hands on treatment of the subject of optimization a comprehensive set of problems and exercises makes the book suitable for use in one or two semesters of a first year graduate course or an advanced undergraduate course each half of the book contains a full semester s worth of complementary yet stand alone material the practical orientation of the topics chosen and a wealth of useful examples also make the book suitable for practitioners in the field

in the past few decades there has been a large amount of work on algorithms for linear network flow problems special classes of network problems such as assignment problems linear and quadratic steiner tree problem topology network design and nonconvex cost network flow problems network optimization problems find numerous applications in transportation in communication network design in production and inventory planning in facilities location and allocation and in vlsi design the purpose of this book is to cover a spectrum of recent developments in network optimization problems from linear networks to general nonconvex network flow problems a

this book provides a comprehensive survey of techniques technologies and applications of big data and its analysis the big data phenomenon is increasingly impacting all sectors of business and industry producing an emerging new information ecosystem on the applications front the book offers detailed descriptions of various application areas for big data analytics in the important domains of social semantic mining banking and financial services capital markets insurance advertisement recommendation systems bio informatics the iot and fog computing before delving into issues of security and privacy with regard to machine learning techniques the book presents all the standard algorithms for

learning including supervised semi supervised and unsupervised techniques such as clustering and reinforcement learning techniques to perform collective deep learning multi layered and nonlinear learning for big data are also covered in turn the book highlights real life case studies on successful implementations of big data analytics at large it companies such as google facebook linkedin and microsoft multi sectorial case studies on domain based companies such as deutsche bank the power provider opower delta airlines and a chinese city transportation application represent a valuable addition given its comprehensive coverage of big data analytics the book offers a unique resource for undergraduate and graduate students researchers educators and it professionals alike

this is a textbook for first year computer science algorithms and data structures with applications to graphics and geometry bc campus website

this proceedings volume is devoted to simulation and parallel computing related to nonlinear problems one of its fundamental aims is the study of how the efforts of computer and computational scientists may be combined to develop most modern simulation environments of nonlinear systems

machine learning algorithms is for current and ambitious machine learning specialists looking to implement solutions to real world machine learning problems it talks entirely about the various applications of machine and deep learning techniques with each chapter dealing with a novel approach of machine learning architecture for a specific application and then compares the results with previous algorithms the book discusses many methods based in different fields including statistics pattern recognition neural networks artificial intelligence sentiment analysis control and data mining in order to present a unified treatment of machine learning problems and solutions all learning algorithms are explained so that the user can easily move from the equations in the book to a computer program

for students this motivation will be especially welcome

in recent years algorithms of the stochastic approximation type have found applications in new and diverse areas and new techniques have been developed for proofs of convergence and rate of convergence the actual and potential applications in signal processing have exploded new challenges have arisen in applications to adaptive control this book presents a thorough coverage of the ode method used to analyze these algorithms

the focus of this book is on bilevel programming which combines elements of hierarchical optimization and game theory the basic model addresses the problem where two decision makers each with their individual objectives act and react in a noncooperative manner the actions of one affect the choices and payoffs available to the other but neither player can completely dominate the other in the traditional sense over the last 20 years there has been a steady growth in research related to theory and solution methodologies for bilevel programming this interest stems from the inherent complexity and consequent challenge of the underlying mathematics as well as the applicability of the bilevel model to many real world situations the primary aim of this book is to provide a historical perspective on algorithmic development and to highlight those implementations that have proved to be the most efficient in their class a corollary aim is to provide a sampling of applications in order to demonstrate the versatility of the basic model and the limitations of current technology what is unique about this book is its comprehensive and integrated treatment of theory algorithms and implementation issues it is the first text that offers researchers and practitioners an elementary understanding of how to solve bilevel programs and a perspective on what success has been achieved in the field audience includes management scientists operations researchers industrial engineers mathematicians and economists

this book focuses on the development of approximation related algorithms and their relevant applications individual contributions are written by leading experts and reflect emerging directions and connections in data approximation and optimization chapters discuss state of the art topics with highly relevant applications throughout science engineering technology and social sciences academics researchers data science practitioners business analysts social sciences

investigators and graduate students will find the number of illustrations applications and examples provided useful this volume is based on the conference approximation and optimization algorithms complexity and applications which was held in the national and kapodistrian university of athens greece june 29 30 2017 the mix of survey and research content includes topics in approximations to discrete noisy data binary sequences design of networks and energy systems fuzzy control large scale optimization noisy data data dependent approximation networked control systems machine learning optimal design no free lunch theorem non linearly constrained optimization spectroscopy

today the notion of the algorithm is familiar not only to mathematicians it forms a conceptual base for information processing the existence of a corresponding algorithm makes automatic information processing possible the theory of algorithms together with mathematical logic forms the theoretical basis for modern computer science see sem us 86 this article is called mathematical logic in computer science and computing practice and in its title mathematical logic is understood in a broad sense including the theory of algorithms however not everyone realizes that the word algorithm includes a transformed toponym khorezm algorithms were named after a great scientist of medieval east is al khwarizmi where al khwarizmi means from khorezm he lived between c 783 and 850 b c and the year 1983 was chosen to celebrate his 1200th birthday a short biography of al khwarizmi compiled in the tenth century starts as follows al khwarizmi his name is muhammad ibn musa he is from khoresm cited according to bul rozen ah 83 p 8

this book constitutes the refereed proceedings of the 5th international colloquium on grammatical inference icgi 2000 held in lisbon portugal in september 2000 the 24 revised full papers presented were carefully reviewed and selected from 35 submissions the papers address topics like machine learning automata theoretical computer science computational linguistics pattern recognition artificial neural networks natural language acquisition computational biology information retrieval text processing and adaptive intelligent agents

choose the correct solution method for your optimization problem optimization algorithms and applications presents a variety of solution techniques for optimization problems emphasizing concepts rather than rigorous mathematical details and proofs the book covers both gradient and stochastic methods as solution techniques for unconstrained and co

the book has many important features which make it suitable for both undergraduate and postgraduate students in various branches of engineering and general and applied sciences the important topics interrelating mathematics computer science are also covered briefly the book is useful to readers with a wide range of backgrounds including mathematics computer science computer applications and operational research while dealing with theorems and algorithms emphasis is laid on constructions which consist of formal proofs examples with applications uptill there is scarcity of books in the open literature which cover all the things including most importantly various algorithms and applications with examples

this book presents a wealth of deep learning algorithms and demonstrates their design process it also highlights the need for a prudent alignment with the essential characteristics of the nature of learning encountered in the practical problems being tackled intended for readers interested in acquiring practical knowledge of analysis design and deployment of deep learning solutions to real world problems it covers a wide range of the paradigm s algorithms and their applications in diverse areas including imaging seismic tomography smart grids surveillance and security and health care among others featuring systematic and comprehensive discussions on the development processes their evaluation and relevance the book offers insights into fundamental design strategies for algorithms of deep learning

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