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Satisfiability Problem Dingzhu Du 1997-01-01 The satisfiability (SAT) problem is central in mathematical logic, computing theory, and many industrial applications. There has been a strong relationship between the theory, the algorithms, and the applications of the SAT problem. This book aims to bring together work by the best theorists, algorithmists, and practitioners working on the sat problem and on industrial applications, as well as to enhance the interaction between the three research groups. The book features the applications of theoretical/algorithmic results to practical problems and presents practical examples for theoretical/algoritmic study. Major topics covered in the book include practical and industial SAT problems and benchmarks, significant case studies and applications of the SAT problem and SAT algorithms, new algorithms and improved techniques for satisfiability testing, specific data structures and implementation details of the SAT algorithms, and the theoretical study of the SAT problem and SAT algorithms.
Agent and Multi-Agent Systems: Technologies and Applications James O'Shea 2011-06-22 This book constitutes the refereed proceedings of the 5th KES International Conference on Agent and Multi-Agent Systems, KES-AMSTA 2011, held in Manchester, UK, in June/July 2011. The 69 revised papers presented were carefully reviewed and selected for inclusion in the book. In addition the volume contains one abstract and one full paper length keynote speech. The papers are organized in topical sections on conversational agents, dialogue systems and text processing; agents and online social networks; robotics and manufacturing; agent optimisation; negotiation and security; multi-agent systems; mining and profiling; agent-based optimization; doctoral track; computer-supported social intelligence for human interaction; digital economy; and intelligent workflow, cloud computing and systems.
Proceedings of the Fifth Annual ACM-SIAM Symposium on Discrete Algorithms 1994-01-01 The January 1994 Symposium was jointly sponsored by the ACM Special Interest Group for Automata and Computability Theory and the SIAM Activity Group on Discrete Mathematics. Among the topics in 79 (unrefereed) papers: comparing point sets under projection; on-line search in a simple polygon; low- degree tests; maximal empty ellipsoids; roots of a polynomial and its derivatives; dynamic algebraic algorithms; fast comparison of evolutionary trees; an efficient algorithm for dynamic text editing; and tight bounds for dynamic storage allocation. No index. Annotation copyright by Book News, Inc., Portland, OR
Geometric Modeling and Processing - GMP 2006 Myung-Soo Kim 2006-07-18 This book constitutes the refereed proceedings of the 4th International Conference on Geometric Modeling and Processing, GMP 2006, held in Pittsburgh, PA, USA, July 2006. The book presents 36 revised full papers and 21 revised short papers addressing current issues in geometric modeling and processing are addressed. The papers are organized in topical sections on shape reconstruction, curves and surfaces, geometric processing, shape deformation, shape description, shape recognition, and more.
Randomization Methods in Algorithm Design Panos M. Pardalos
Production Engineering 1986
Parallel Algorithms for Knapsack Type Problems Vassil Alexandrov 1999 This book brings together current research direction in the mapping of dynamic programming recurrence equations for Knapsack Type problems, which include Unbounded Knapsack Problem, 0/1 Knapsack Problem, Subset Sum Problem, Change Making Problem, onto so-called regular parallel architectures. In particular, it focuses on heuristic and more formal techniques for mapping. The text is based on substantially revised papers published by the authors and their colleagues in the literature but re-written to provide an overall view of the subject area.
Modular System Design and Evaluation Mark Sh. Levin 2014-09-06 This book examines seven key combinatorial engineering frameworks (composite schemes consisting of algorithms and/or interactive procedures) for hierarchical modular (composite) systems. These frameworks are based on combinatorial optimization problems (e.g., knapsack problem, multiple choice problem, assignment problem, morphological clique problem), with the author’s version of morphological design approach – Hierarchical Morphological Multicritieria Design (HMMD) – providing a conceptual lens with which to elucidate the examples discussed. This approach is based on ordinal estimates of design alternatives for systems parts/components, however, the book also puts forward an original version of HMMD that is based on new interval multiset estimates for the design alternatives with special attention paid to the aggregation of modular solutions (system versions). The second part of ‘Modular System Design and Evaluation’ provides ten information technology case studies that enriches understanding of the design of system design, detection of system bottlenecks and system improvement, amongst others. The book is intended for researchers and scientists, students, and practitioners in many domains of information technology and engineering. The book is also designed to be used as a text for courses in system design, systems engineering and life cycle engineering at the level of undergraduate level, graduate/PhD levels, and for continuing education. The material and methods contained in this book were used over four years in Moscow Institute of Physics and Technology (State University) in the author’s faculty course “System Design”.
Practical Design Verification Dhiraj K. Pradhan 2009-06-11 Improve design efficiency and reduce costs with this practical guide to formal and simulation-based functional verification. Giving you a theoretical and practical understanding of the key issues involved, expert authors including Wayne Wolf and Dan Gajski explain both formal techniques (model checking, equivalence checking) and simulation-based techniques (coverage metrics, test generation). You get insights into practical issues including hardware verification languages (HVLs) and system-level debugging. The foundations of formal and simulation-based techniques are covered too, as are more recent research advances including transaction-level modeling and assertion-based verification, plus the theoretical underpinnings of verification, including the use of decision diagrams and Boolean satisfiability (SAT).
Handbook of Combinatorial Optimization Ding-Zhu Du 1999-10-31 This volume can be considered as a supplementary volume to the major three-volume Handbook of Combinatorial Optimization published by Kluwer. It can also be regarded as a stand-alone volume which presents chapters dealing with various aspects of the subject including optimization problems and algorithmic approaches for discrete problems. Audience: All those who use combinatorial optimization methods to model and solve problems.
Computer Aided Verification Ed Brinksma 2003-08-02 This volume contains the proceedings of the conference on Computer Aided V- i?cation (CAV 2002), held in Copenhagen, Denmark on July 27-31, 2002. CAV 2002 was the 14th in a series of conferences dedicated to the advancement of the theory and practice of computer-assisted formal analysis methods for software and hardware systems. The conference covers the spectrum from theoretical - sults to concrete applications, with an emphasis on practical veri?cation tools, including algorithms and techniques needed for their implementation. The c- ference has traditionally drawn contributions from researchers as well as prac- tioners in both academia and industry. This year we received 94 regular paper submissions out of which 35 were selected. Each submission received an

average of 4 referee reviews. In addition, the CAV program contained 11 tool presentations selected from 16 submissions. For each tool presentation, a demo was given at the conference. The large number of tool submissions and presentations testi?es to the liveliness of the ?eld and its applied ?avor.
SAGA – Advances in ShApes, Geometry, and Algebra Tor Dokken 2014-10-24 This book summarizes research carried out in workshops of the SAGA project, an Initial Training Network exploring the interplay of Shapes, Algebra, Geometry and Algorithms. Written by a combination of young and experienced researchers, the book introduces new ideas in an established context. Among the central topics are approximate and sparse implicitization and surface parametrization; algebraic tools for geometric computing; algebraic geometry for computer aided design applications and problems with industrial applications. Readers will encounter new methods for the (approximate) transition between the implicit and parametric representation; new algebraic tools for geometric computing; new applications of isogeometric analysis and will gain insight into the emerging research field situated between algebraic geometry and computer aided geometric design.
Graph Partitioning and Graph Clustering David A. Bader 2013-03-18 Graph partitioning and graph clustering are ubiquitous subtasks in many applications where graphs play an important role. Generally speaking, both techniques aim at the identification of vertex subsets with many internal and few external edges. To name only a few, problems addressed by graph partitioning and graph clustering algorithms are: What are the communities within an (online) social network? How do I speed up a numerical simulation by mapping it efficiently onto a parallel computer? How must components be organized on a computer chip such that they can communicate efficiently with each other? What are the segments of a digital image? Which functions are certain genes (most likely) responsible for? The 10th DIMACS Implementation Challenge Workshop was devoted to determining realistic performance of algorithms where worst case analysis is overly pessimistic and probabilistic models are too unrealistic. Articles in the volume describe and analyze various experimental data with the goal of getting insight into realistic algorithm performance in situations where analysis fails.
Field-Programmable Logic and Applications. From FPGAs to Computing Paradigm Reiner W. Hartenstein 1998-08-14 This book constitutes the refereed proceedings of the 8th International Workshop on Field-Programmable Logics and Applications, FPL '98, held in Tallinn, Estonia, in August/September 1998. The 39 revised full papers presented were carefully selected for inclusion in the book from a total of 86 submissions. Also included are 30 refereed high-quality posters. The papers are organized in topical sections on design methods, general aspects, prototyping and simulation, development methods, accelerators, system architectures, hardware/software codesign, system development, algorithms on FPGAs, and applications.
Product Manufacturing and Cost Estimating using CAD/CAE Kuang-Hua Chang 2013-07-01 This is the second part of a four part series that covers discussion of computer design tools throughout the design process. Through this book, the reader will... ...understand basic design principles and all digital design paradigms. ...understand CAD/CAE/CAM tools available for various design related tasks. ...understand how to put an integrated system together to conduct All Digital Design (ADD). ...understand industrial practices in employing ADD and tools for product development. Provides a comprehensive and thorough coverage of essential elements for product manufacturing and cost estimating using the computer aided engineering paradigm Covers CAD/CAE in virtual manufacturing, tool path generation, rapid prototyping, and cost estimating; each chapter includes both analytical methods and computer-aided design methods, reflecting the use of modern computational tools in engineering design and practice A case study and tutorial example at the end of each chapter provides hands-on practice in implementing off-the-shelf computer design tools Provides two projects at the end of the book showing the use of Pro/ENGINEER® and SolidWorks® to implement concepts discussed in the book
Geometric and Algorithmic Aspects of Computer-aided Design and Manufacturing Ravi Janardan Computer-Aided Design and Manufacturing (CAD/CAM) is concerned with all aspects of the process of designing, prototyping, manufacturing, inspecting, and maintaining complex geometric objects under computer control. As such, there is a natural synergy between this field and Computational Geometry (CG), which involves the design, analysis, implementation, and testing of efficient algorithms and data representation techniques for geometric entities such as points, polygons, polyhedra, curves, and surfaces. The DIMACS Center (Piscataway, NJ) sponsored a workshop to further promote the interaction between these two fields. Attendees from academia, research laboratories, and industry took part in the invited talks, contributed presentations, and informal discussions. This volume is an outgrowth of that meeting. Topics covered in this volume include geometric modeling, computational topology, computational metrology, geometric constraint solving, part immobilization, geometric aspects of machining, layered manufacturing, and algebraic methods. The book is suitable for graduate students and researchers interested in geometric and algorithmic aspects of computer-aided design and manufacturing.
Automated Deduction in Geometry Francisco Botana 2007-12-06 The papers in this volume show the lively variety of topics and methods in automated deduction in geometry, and their applicability to different branches of mathematics as well as to other sciences and technologies. The book is made up of the thoroughly refereed post-proceedings of the 6th International Workshop on Automated Deduction in Geometry, ADG 2006, held at Pontevedra, Spain, in 2006. There are a total of 13 revised full papers selected from a number of submissions.
TMCE 2000 Imre Horvath 2000
Handbook of Geometric Constraint Systems Principles Meera Sitharam 2018-07-20 The Handbook of Geometric Constraint Systems Principles is an entry point to the currently used principal mathematical and computational tools and techniques of the geometric constraint system (GCS). It functions as a single source containing the core principles and results, accessible to both beginners and experts. The handbook provides a guide for students learning basic concepts, as well as experts looking to pinpoint specific results or approaches in the broad landscape. As such, the editors created this handbook to serve as a useful tool for navigating the varied concepts, approaches and results found in GCS research. Key Features: A comprehensive reference handbook authored by top researchers Includes fundamentals and techniques from multiple perspectives that span several research communities Provides recent results and a graded program of open problems and conjectures Can be used for senior undergraduate or graduate topics course introduction to the area Detailed list of figures and tables About the Editors: Meera Sitharam is currently an Associate Professor at the University of Florida’s Department of Computer & Information Science and Engineering. She received her Ph.D. at the University of Wisconsin, Madison. Audrey St. John is an Associate Professor of Computer Science at Mount Holyoke College, who received her Ph. D. from UMass Amherst. Jessica Sidman is a Professor of Mathematics on the John S. Kennedy Foundation at Mount Holyoke College. She received her Ph.D. from the University of Michigan.
Proceedings of the Second Brazilian Symposium on Mathematical and Computational Biology Rubem Mondaini (editor) 2002 Apresenta os resultados do Simpósio que discutiu as fundamentações teóricas e experimentais da Biologia, entre outros tópicos científicos
Proceedings 2000
Cumulative Book Index 1995 A world list of books in the English language.
Computer Aided Verification Isil Dillig 2019-01-01 The open access two-volume set LNCS 11561 and 11562 constitutes the refereed proceedings of the 31st International Conference on Computer Aided Verification, CAV 2019, held in New York City, USA, in July 2019. The 52 full papers presented together with 13 tool papers and 2 case studies, were carefully reviewed and selected from 258 submissions. The papers were organized in the following topical sections: Part I: automata and timed systems; security and hyperproperties; synthesis; model checking; cyber-physical systems and machine learning; probabilistic systems, runtime techniques; dynamical, hybrid, and reactive systems; Part II: logics, decision procedures; and solvers; numerical programs; verification; distributed systems and networks; verification and invariants; and concurrency.
American Book Publishing Record 2003
Mathematics Everywhere Martin Aigner 2010 Mathematics is all around us. Often we do not realize it, though. Mathematics Everywhere is a

collection of presentations on the role of mathematics in everyday life, through science, technology, and culture. The common theme is the unique position of mathematics as the art of pure thought and at the same time as a universally applicable science. The authors are renowned mathematicians; their presentations cover a wide range of topics. From compact discs to the stock exchange, from computer tomography to traffic routing, from electronic money to climate change, they make the ``math inside'' understandable and enjoyable. An additional attractive feature is the leisurely treatment of some hot topics that have gained prominence in recent years, such as Fermat's Theorem, Kepler's packing problem, and the solution of the Poincare Conjecture. Or maybe you have heard about the Nash equilibrium (of ``A Beautiful Mind'' fame), or the strange future of quantum computers, and want to know what it is all about? Well, open the book and take an up-to-date trip into the fascinating world of the mathematics all around us.

Scientific and Technical Aerospace Reports 1995

Information Hiding Ira S. Moskowitz 2003-06-30 This book constitutes the thoroughly refereed post-proceedings of the 4th International Information Hiding Workshop, IHW 2001, held in Pittsburgh, PA, USA, in April 2001. The 29 revised full papers presented were carefully selected during two rounds of reviewing and revision. All current issues in information hiding are addressed including watermarking and fingerprinting of digitial audio, still image and video; anonymous communications; steganography and subliminal channels; covert channels; and database inference channels.

Computer Integrated Manufacturing United States. Army Materiel Command 1988

SAT2000 Ian Gent 2000

Geometry at Work Catherine A. Gorini 2000-10-12 Beginning with art and architecture and culminating with science and mathematics itself, this book discusses geometric ideas and their many applications throughout history. These range from ancient to modern, concrete to abstract, and familiar to cutting edge. Each chapter is written by a leading expert or pioneer in their own field, and the book should be a valuable resource for students and teachers of geometry alike.

Geometric and Algorithmic Aspects of Computer-aided Design and Manufacturing Ravi Janardan 2005 Computer-Aided Design and Manufacturing (CAD/CAM) is concerned with all aspects of the process of designing, prototyping, manufacturing, inspecting, and maintaining complex geometric objects under computer control. As such, there is a natural synergy between this field and Computational Geometry (CG), which involves the design, analysis, implementation, and testing of efficient algorithms and data representation techniques for geometric entities such as points, polygons, polyhedra, curves, and surfaces. The DIMACS Center (Piscataway, NJ) sponsored a workshop to further promote the interaction.

Multilevel Optimization in VLSICAD Jingsheng Jason Cong 2013-03-14 In the last few decades, multiscale algorithms have become a dominant trend in large-scale scientific computation. Researchers have successfully applied these methods to a wide range of simulation and optimization problems. This book gives a general overview of multiscale algorithms; applications to general combinatorial optimization problems such as graph partitioning and the traveling salesman problem; and VLSICAD applications, including circuit partitioning, placement, and VLSI routing. Additional chapters discuss optimization in reconfigurable computing, convergence in multilevel optimization, and model problems with PDE constraints. Audience: Written at the graduate level, the book is intended for engineers and mathematical and computational scientists studying large-scale optimization in electronic design automation.

Field-Programmable Logic and Applications Peter Y.K. Cheung 2003-08-27 This book constitutes the refereed proceedings of the 13th International Conference on Field-Programmable Logic and Applications, FPL 2003, held in Lisbon, Portugal in September 2003. The 90 revised full papers and 56 revised poster papers presented were carefully reviewed and selected from 216 submissions. The papers are organized in topical sections on technologies and trends, communications applications, high level design tools, reconfigurable architecture, cryptographic applications, multi-context FPGAs, low-power issues, run-time reconfiguration, compilation tools, asynchronous techniques, bio-related applications, codesign, reconfigurable fabrics, image processing applications, SAT techniques, application-specific architectures, DSP applications, dynamic reconfiguration, SoC architectures, emulation, cache design, arithmetic, bio-inspired design, SoC design, cellular applications, fault analysis, and network applications.

Multicriteria Scheduling Vincent T'Kindt 2006-03-20 Scheduling and multicriteria optimisation theory have been subject, separately, to numerous studies. Since the last twenty years, multicriteria scheduling problems have been subject to a growing interest. However, a gap between multicriteria scheduling approaches and multicriteria optimisation field exits. This book is an attempt to collect the elementary of multicriteria optimisation theory and the basic models and algorithms of multicriteria scheduling. It is composed of numerous illustrations, algorithms and examples which may help the reader in understanding the presented concepts. This book covers general concepts such as Pareto optimality, complexity theory, and general method for multicriteria optimisation, as well as dedicated scheduling problems and algorithms: just-in-time scheduling, flexibility and robustness, single machine problems, parallel machine problems, shop problems, etc. The second edition contains revisions and new material.

Proceedings of the ... Annual ACM-SIAM Symposium on Discrete Algorithms 1994

Computational Modeling and Problem Solving in the Networked World Hemant K. Bhargava 2012-12-06 This book is a compilation of a selected subset of research articles presented at the Eighth INFORMS Computing Society Conference, held in Chandler, Arizona, from January 8 to 10, 2003. The articles in this book represent the diversity and depth of the interface between ORiMS (operations research and the management sciences) and CS/AI (computer science and artificial intelligence). This volume starts with two papers that represent the reflective and integrative thinking that is critical to any scientific discipline. These two articles present philosophical perspectives on computation, covering a variety of traditional and newer methods for modeling, solving, and explaining mathematical models. The next set includes articles that study machine learning and computational heuristics, and is followed by articles that address issues in performance testing of solution algorithms and heuristics. These two sets of papers demonstrate the richness of thought that takes place at the ORiMS and CSI AI interface. The final set of articles demonstrates the usefulness of these and other methods at the interface towards solving problems in the real world, covering e-commerce, workflow, electronic negotiation, music, parallel computation, and telecommunications. The articles in this collection represent the results of cross-fertilization between ORiMS and CSI AI, making possible advances that could have not been achieved in isolation. The continuing aim ofthe INFORMS Computing Society and this research conference is to invigorate and further develop this interface.

Combinatorial Optimization William Cook 1995-01-01 This is a carefully refereed collection of invited survey articles written by outstanding researchers. Aimed at researchers in discrete mathematics, operations research, and the theory of computing, this book offers an in-depth look at many topics not treated in textbooks.

Advances in Discrete and Computational Geometry Bernard Chazelle 1999 This volume is a collection of refereed expository and research articles in discrete and computational geometry written by leaders in the field. Articles are based on invited talks presented at the AMS-IMS-SIAM Summer Research Conference, ``Discrete and Computational Geometry: Ten Years Later'', held in 1996 at Mt. Holyoke College (So. Hadley, MA). Topics addressed range from tilings, polyhedra, and arrangements to computational topology and visibility problems. Included are papers on the interaction between real algebraic geometry and discrete and computational geometry, as well as on linear programming and geometric discrepancy theory.

Directory of Published Proceedings 2001

Graph Drawing Roberto Tamassia 1995-01-18 This volume constitutes the proceedings of the DIMACS International Workshop on Graph Drawing, GD '94, held in Princeton, New Jersey in October 1994. The 50 papers and system descriptions presented address the problem of constructing geometric representations of abstract graphs, networks and hypergraphs, with applications to key technologies such as software

engineering, databases, visual interfaces, and circuit layout; they are organized in sections on three-dimensional drawings, orthogonal drawings, planar drawings, crossings, applications and systems, geometry, system demonstrations, upward drawings, proximity drawings, declarative and other approaches; in addition reports on a graph drawing contest and a poster gallery are included.