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Computer Integrated Manufacturing United States. Army Materiel Command 1988

Cumulative Book Index 1992 A world list of books in the English language.

Visibility Computations in Densely Occluded Polyhedral Environments Seth Jared Teller 1992 This thesis investigates the extent to which precomputation and storage of visibility information can be utilized to accelerate on-line culling and rendering during an interactive visual simulation of a densely occluded geometric model.

Production Engineering 1986

Report 1992

Computer & Control Abstracts 1996

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.

Encyclopedia of Algorithms Ming-Yang Kao 2008-08-06 One of Springer's renowned Major Reference Works, this awesome achievement provides a comprehensive set of solutions to important algorithmic problems for students and researchers interested in quickly locating useful information. This first edition of the reference focuses on high-impact solutions from the most recent decade, while later editions will widen the scope of the work. All entries have been written by experts, while links to Internet sites that outline their research work are provided. The entries have all been peer-reviewed. This defining reference is published both in print and on line.

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 exists. 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.

Handbook of Computer Vision and Applications 1999

The Structure of Paintings Michael Leyton 2007-07-07 Michael Leyton has developed new foundations for geometry in which shape is equivalent to memory storage. A principal argument of these foundations is that artworks are maximal memory stores. The theory of geometry is developed from Leyton's fundamental laws of memory storage, and this book shows that these laws determine the structure of paintings. Furthermore, the book demonstrates that the emotion expressed by a painting is actually the memory extracted by the laws. Therefore, the laws of memory storage allow the systematic and rigorous mapping not only of the compositional structure of a painting, but also of its emotional expression. The argument is supported by detailed analyses of paintings by Picasso, Raphael, Cezanne, Gauguin, Modigliani, Ingres, De Kooning, Memling, Balthus and Holbein.

Localization Algorithms and Strategies for Wireless Sensor Networks: Monitoring and Surveillance Techniques for Target Tracking Mao, Guoqiang 2009-05-31 Wireless localization techniques are an area that has attracted interest from both industry and academia, with self-localization capability providing a highly desirable characteristic of wireless sensor networks. Localization Algorithms and Strategies for Wireless Sensor Networks encompasses the significant and fast growing area of wireless localization techniques. This book provides comprehensive and up-to-date coverage of topics and fundamental theories underpinning measurement techniques and localization algorithms. A useful compilation for academicians, researchers, and practitioners, this Premier Reference Source contains relevant references and the latest studies emerging out of the wireless sensor network field.

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.

American Book Publishing Record 2003

Semidefinite Optimization and Convex Algebraic Geometry Grigoriy Blekherman 2013-03-21 An accessible introduction to convex algebraic geometry and semidefinite optimization. For graduate students and researchers in mathematics and computer science.

Solving Geometric Constraint Systems Glenn A. Kramer 1992 Solving Geometric Constraints records and explains the formal basis for graphical analysis techniques that have been used for decades in engineering disciplines. It describes a novel computer implementation of a 3D graphical analysis method - degrees of freedom analysis - for solving geometric constraint problems of the type encountered in the kinematic analysis of mechanical linkages, providing the best computational bounds yet achieved for this class of problems. The technique allows for the design of algorithms that provide significant speed increases and will foster the development of interactive software tools for the simulation, optimization, and design of complex mechanical devices as well as provide leverage in other geometric domains. Kramer formalizes symbolic geometry, including explicit reasoning about degrees of freedom, as an alternative to symbolic algebraic or iterative numerical techniques for solving geometric constraint satisfaction problems. He discusses both the theoretical and practical advantages of degrees of freedom analysis, including a correctness proof of the procedure, and clearly defines its scope. He covers all nondegenerate cases and handles several classes of degeneracy, giving examples that are practical and of representative complexity.

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 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.

Scientific and Technical Aerospace Reports 1995

Information Modeling for Interoperable Dimensional Metrology Y Zhao 2011-08-28 Dimensional metrology is an essential part of modern manufacturing technologies, but the basic theories and measurement methods are no longer sufficient for today's digitized systems. The information exchange between the software components of a dimensional metrology system not only costs a great deal of money, but also causes

the entire system to lose data integrity. *Information Modeling for Interoperable Dimensional Metrology* analyzes interoperability issues in dimensional metrology systems and describes information modeling techniques. It discusses new approaches and data models for solving interoperability problems, as well as introducing process activities, existing and emerging data models, and the key technologies of dimensional metrology systems. Written for researchers in industry and academia, as well as advanced undergraduate and postgraduate students, this book gives both an overview and an in-depth understanding of complete dimensional metrology systems. By covering in detail the theory and main content, techniques, and methods used in dimensional metrology systems, *Information Modeling for Interoperable Dimensional Metrology* enables readers to solve real-world dimensional measurement problems in modern dimensional metrology practices.

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.

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/algorithmic study. Major topics covered in the book include practical and industrial 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.

Computational Topology Herbert Edelsbrunner 2010 Combining concepts from topology and algorithms, this book delivers what its title promises: an introduction to the field of computational topology. Starting with motivating problems in both mathematics and computer science and building up from classic topics in geometric and algebraic topology, the third part of the text advances to persistent homology. This point of view is critically important in turning a mostly theoretical field of mathematics into one that is relevant to a multitude of disciplines in the sciences and engineering. The main approach is the discovery of topology through algorithms. The book is ideal for teaching a graduate or advanced undergraduate course in computational topology, as it develops all the background of both the mathematical and algorithmic aspects of the subject from first principles. Thus the text could serve equally well in a course taught in a mathematics department or computer science department.

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.

Algorithms and Theory of Computation Handbook, Second Edition, Volume 2 Mikhail J. Atallah 2009-11-20 *Algorithms and Theory of Computation Handbook, Second Edition: Special Topics and Techniques* provides an up-to-date compendium of fundamental computer science topics and techniques. It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems. Along with updating and revising many of the existing chapters, this second edition contains more than 15 new chapters. This edition now covers self-stabilizing and pricing algorithms as well as the theories of privacy and anonymity, databases, computational games, and communication networks. It also discusses computational topology, natural language processing, and grid computing and explores applications in intensity-modulated radiation therapy, voting, DNA research, systems biology, and financial derivatives. This best-selling handbook continues to help computer professionals and engineers find significant information on various algorithmic topics. The expert contributors clearly define the terminology, present basic results and techniques, and offer a number of current references to the in-depth literature. They also provide a glimpse of the major research issues concerning the relevant topics.

MAA Notes 1983

Formal Hardware Verification Thomas Kropf 1997-08-27 This state-of-the-art monograph presents a coherent survey of a variety of methods and systems for formal hardware verification. It emphasizes the presentation of approaches that have matured into tools and systems usable for the actual verification of nontrivial circuits. All in all, the book is a representative and well-structured survey on the success and future potential of formal methods in proving the correctness of circuits. The various chapters describe the respective approaches supplying theoretical foundations as well as taking into account the application viewpoint. By applying all methods and systems presented to the same set of IFIP WG10.5 hardware verification examples, a valuable and fair analysis of the strengths and weaknesses of the various approaches is given.

A Generative Theory of Shape Michael Leyton 2003-06-30 The purpose of this book is to develop a generative theory of shape that has two properties we regard as fundamental to intelligence - (1) maximization of transfer: whenever possible, new structure should be described as the transfer of existing structure; and (2) maximization of recoverability: the generative operations in the theory must allow maximal inferentiability from data sets. We shall show that, if generativity satisfies these two basic criteria of - telligence, then it has a powerful mathematical structure and considerable applicability to the computational disciplines. The requirement of intelligence is particularly important in the gene- tion of complex shape. There are plenty of theories of shape that make the generation of complex shape unintelligible. However, our theory takes the opposite direction: we are concerned with the conversion of complexity into understandability. In this, we will develop a mathematical theory of und- standability. The issue of understandability comes down to the two basic principles of intelligence - maximization of transfer and maximization of recoverability. We shall show how to formulate these conditions group- theoretically. (1) Ma- zimization of transfer will be formulated in terms of wreath products. Wreath products are groups in which there is an upper subgroup (which we will call a control group) that transfers a lower subgroup (which we will call a ?ber group) onto copies of itself. (2) maximization of recoverability is insured when the control group is symmetry-breaking with respect to the ?ber group.

Directory of Published Proceedings 2001

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

Recent Developments in Computer Vision Stan Li 1996-01-24 With one new volume each year, this series keeps scientists and advanced students informed of the latest developments and results in all areas of botany. The present volume includes reviews on structural botany, plant taxonomy, physiology, genetics and geobotany.

TMCE 2000 Imre Horvath 2000

Handbook of Computer Vision and Applications: Systems and Applications Bernd Jähne 1999 CD-ROM files contain complete text of all three print vols., as well as hyperlinks to figures, tables, etc. and between the index and the text. Also included are hyperlinks to movies, interactive 3-D models, demonstration software and other materials not contained in the print version.

Forthcoming Books Rose Arny 1996-10

Process Grammar: The Basis of Morphology Michael Leyton 2014-01-25 Leyton's *Process Grammar* has been applied by scientists and engineers in many disciplines including medical diagnosis, geology, computer-aided design, meteorology, biological anatomy, neuroscience, chemical engineering, etc. This book demonstrates the following: The *Process Grammar* invents several entirely new concepts in biological morphology and manufacturing design, and shows that these concepts are fundamentally important. The *Process Grammar* has process-inference rules that give, to morphological transitions, powerful new causal explanations. Remarkably, the book gives a profound unification of biological morphology and vehicle design. The book invents over 30 new CAD operations that realize fundamentally important functions of a product. A

crucial fact is that the Process Grammar is an example of the laws in Leyton's Generative Theory of Shape which give the ability to recover the design intents for which the shape features of a CAD model were created. The book demonstrates that the Process Grammar recovers important design intents in biological morphology and manufacturing design. In large-scale manufacturing systems, the recovery of design intents is important for solving the interoperability problem and product lifecycle management. This book is one of a series of books in Springer that elaborates Leyton's Generative Theory of Shape.

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.

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.

Algorithm Engineering and Experimentation Michael T. Goodrich 1999-06-29 This book constitutes the thoroughly refereed post-workshop proceedings of the International Workshop on Algorithmic Engineering and Experimentation, ALENEX'99, held in Baltimore, Maryland, USA, in January 1999. The 20 revised full papers presented were carefully selected from a total of 42 submissions during two rounds of reviewing and improvement. The papers are organized in sections on combinatorial algorithms, computational geometry, software and applications, algorithms for NP-hard problems, and data structures.

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.

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

Index of Conference Proceedings British Library. Document Supply Centre 1998