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Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems Pearson 2008-05-08 This book constitutes the refereed proceedings of the 5th International Conference on Integration of AI and OR Techniques in Constraint Programming for Combinatorial Optimization Problems, CPAIOR 2008, held in Paris, France, in May 2008. The 18 revised long papers and 22 revised short papers presented together with 3 invited talks were carefully reviewed and selected from 130 submissions. The papers describe current research in the fields of constraint programming, artificial intelligence and operations research to explore ways of solving large-scale, practical optimization problems through integration and hybridization of the fields' different techniques.

Air Force Scientific Research Bibliography Library of Congress. Science and Technology Division 1961

Data and Applications Security and Privacy Xiangjiu Li 2011-06-30 This book constitutes the refereed proceedings of the 25th IFIP WG 11.3 International Conference on Data and Applications Security and Privacy, DBSec 2011, held in Richmond, VA, USA, in July 2011. The 14 revised full papers and 9 short papers presented together with 3 invited lectures were carefully reviewed and selected from 37 submissions. The topics of these papers include access control, privacy-preserving data applications, data confidentiality and query verification, query and data privacy, authentication and secret sharing.

FST TCS 2000: Foundations of Software Technology and Theoretical Computer Science Springer 2003-06-26 This book constitutes the refereed proceedings of the 20th international Conference on Foundations of Software Technology and Theoretical Computer Science, FST TCS 2000, held in New Delhi, India in December 2000. The 36 revised full papers presented were carefully reviewed and selected from a total of 141 submissions; also included are six invited papers. The volume provides broad coverage of the logical and mathematical foundations of computer science and spans the whole range of theoretical computer science.

Graph-Theoretic Concepts in Computer Science Jozsef Hromkovi? 2005-01-25 During its 30-year existence, the International Workshop on Graph-Theoretic Concepts in Computer Science has become a distinguished and high-quality computer science event. The workshop aims at uniting theory and practice by demonstrating how graph-theoretic concepts can successfully be applied to various areas of computer science and by exposing new theories emerging from applications. In this way, WG provides common ground for the exchange of information among people dealing with several graph problems and working in various disciplines. Thereby, the workshop contributes to forming an interdisciplinary research community. The original idea of the Workshop on Graph-Theoretic Concepts in Computer Science was ingenuity in all theoretical aspects and applications of graph concepts, wherever applied. Within the last ten years, the development has strengthened in particular the topic of structural properties in relation to computational complexity. This workshop has become pivotal for the community interested in these areas. An aim specific to the 30th WG was to support the central role of WG in both of the prementioned areas on the one hand and on the other hand to promote its originally broader scope. The 30th WG was held at the Physikzentrum Bad Honnef, which serves as the main meeting point of the German Physical Society. It offers a secluded setting for research conferences, seminars, and workshops, and has proved to be especially stimulating for fruitful discussions. Talks were given in the new lecture hall with a modern double rear projection, interactive electronic board, and full video conferencing equipment.

Foundations of Software Science and Computation Structures Patricia Bouyer 2022-03-28 This open access book constitutes the proceedings of the 25th International Conference on Foundations of Software Science and Computational Structures, FOSSACS 2022, which was held during April 4-6, 2022, in Munich, Germany, as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2022. The 23 regular papers presented in this volume were carefully reviewed and selected from 100 submissions. They deal with research on theories and methods to support the analysis, integration, synthesis, transformation, and verification of programs and software systems.

Software Composition Markus Lumpe 2007-12-13 Software composition is a complex and fast-moving field, and this excellent Springer volume keeps professionals in the subject right up to date. It constitutes the thoroughly refereed post-proceedings of the 6th International Workshop on Software Composition, SC 2007. The 21 papers are organized in topical sections on composition contracts, composition design and analysis, dynamic composition, short papers, aspect-oriented programming, and structural composition.

Algorithmics for Hard Problems Srarj Hromkovi? 2013-03-14 Algorithmic design, especially for hard problems, is more essential for success in solving them than any standard improvement of current computer technologies. Because of this, the design of algorithms for solving hard problems is the core of current algorithmic research from the theoretical point of view as well as from the practical point of view. There are many general text books on algorithmics, and several specialized books devoted to particular approaches such as local search, randomization, approximation algorithms, or heuristics. But there is no textbook that focuses

the design of algorithms for hard computing tasks, and that systematically explains, combines, and compares the main possibilities for attacking hard algorithmic problems. As this topic is fundamental for computer science, this book tries to close this gap. Another motivation, and probably the main reason for writing this book, is connected to education. The considered area has developed very dynamically in recent years and the research on this topic discovered several profound results, new concepts, new methods. Some of the achieved contributions are so fundamental that one can speak about paradigms which should be included in the education of every computer science student. Unfortunately, this is very far from reality. This is because these paradigms are not sufficiently known in the computer science community, and so they are insufficiently communicated to students and practitioners.

Combinatorial Convexity and Algebraic Geometry Gertler Ewald 2012-12-06 The book is an introduction to the theory of convex polytopes and polyhedral sets, to algebraic geometry, and to the connections between these fields, known as the theory of toric varieties. The first part of the book covers the theory of polytopes and provides large parts of the mathematical background of linear optimization and of the geometrical aspects in computer science. The second part introduces toric varieties in an elementary way.

Scientific American 1864

LATIN 2012: Theoretical Informatics David Fernández-Baca 2012-03-30 This book constitutes the proceedings of the 10th Latin American Symposium on Theoretical Informatics, LATIN 2012, held in Arequipa, Peru, in April 2012. The 55 papers presented in this volume were carefully reviewed and selected from 153 submissions. The papers address a variety of topics in theoretical computer science with a certain focus on algorithms, automata theory and formal languages, coding theory and data compression, algorithmic graph theory and combinatorics, complexity theory, computational algebra, computational biology, computational geometry, computational number theory, cryptography, theoretical aspects of databases and information retrieval, data structures, networks, logic in computer science, machine learning, mathematical programming, parallel and distributed computing, pattern matching, quantum computing and random structures.

Theory and Applications of Satisfiability Testing Eiding Bacchus 2005-06-09 This book constitutes the refereed proceedings of the 8th International Conference on Theory and Applications of Satisfiability Testing, SAT 2005, held in St Andrews, Scotland in July 2005. The 26 revised full papers presented together with 16 revised short papers presented as posters during the technical programme were carefully selected from 73 submissions. The whole spectrum of research in propositional and quantified Boolean formula satisfiability testing is covered including proof systems, search techniques, probabilistic analysis of algorithms and their properties, problem encodings, industrial applications, specific tools, case studies, and empirical results.

Nuclear Science Abstracts 1975-03

Graph-theoretic Concepts in Computer Science 2004

Mathematical Foundations of Computer Science 1995 International Symposium on Mathematical Foundations of Computer Science (20 : 1995 : Praha) 1995-08-16 This book presents the proceedings of the 20th International Symposium on Mathematical Foundations of Computer Science, MFCS'95, held in Prague, Czech Republic in August/September 1995. The book contains eight invited papers and two abstracts of invited talks by outstanding scientists as well as 44 revised full research papers selected from a total of 104 submissions. All relevant aspects of theoretical computer science are addressed, particularly the mathematical foundations; the papers are organized in sections on structural complexity, algorithms, complexity theory, graphs in models of computation, lower bounds, formal languages, unification, rewriting and type theory, distributed computation, concurrency, semantics, model checking, and formal calculi.

Multilevel Optimization: Algorithms and Applications Migdalas 2013-12-01 Researchers working with nonlinear programming often claim "the word is non linear" indicating that real applications require nonlinear modeling. The same is true for other areas such as multi-objective programming (there are always several goals in a real application), stochastic programming (all data are uncertain and therefore stochastic models should be used), and so forth. In this spirit we claim: The word is multilevel. In many decision processes there is a hierarchy of decision makers, and decisions are made at different levels in this hierarchy. One way to handle such hierarchies is to focus on one level and include other levels' behaviors as assumptions. Multilevel programming is a research area that focuses on the whole hierarchical structure. In terms of modeling, the constraint domain associated with a multilevel programming problem is implicitly determined by a series of optimization problems which must be solved in a predetermined sequence. If only two levels are considered, we have one leader (associated with the upper level) and one follower (associated with the lower level).

SOFSEM 2020: Theory and Practice of Computer Science Alexander Chatzigeorgiou 2020-01-16 This book constitutes the refereed proceedings of the 46th International Conference on Current Trends in Theory and Practice of Informatics, SOFSEM 2020, held in Limassol, Cyprus, in January 2020. The 40 full papers presented together with 17 short papers and 3 invited papers were carefully reviewed and selected from 125 submissions. They presented new research results in the theory and practice of computer science in the each sub-area of SOFSEM 2020: foundations of computer science, foundations of data science and engineering, foundations of software engineering, and foundations of algorithmic computational biology.

New Trends in Mechanism and Machine Science Dora Pislea 2020-08-20 This volume presents the latest research and industrial applications in the areas of mechanism science, robotics and dynamics. The respective contributions cover such topics as computational kinematics, control issues in mechanical systems, mechanisms for medical rehabilitation, mechanisms for minimally invasive techniques, cable robots, design issues for mechanisms and robots, and the teaching and history of mechanisms. Written by leading researchers and engineers, and selected by means of a rigorous international peer-review process, the papers highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations. They reflect the outcomes of the 8th European Conference on Mechanism Science (EuCoMeS) in 2020.

**Ernst Specker Selected** Gerhard Jäger 2012-12-06 Ernst Specker has made decisive contributions towards shaping directions in topology, algebra, mathematical logic, combinatorics and algorithmics over the last 40 years. We have derived great pleasure marking his seventieth birthday by editing the majority of his scientific publications, and thus making his work available in a unified form to the mathematical community. In order to convey an idea of the richness of his personality, we have also included one of his sermons. Of course, the publication of these *Selecta* can pay tribute only to the writings of Ernst Specker. It cannot adequately express his originality and wisdom as a person nor the fascination he exercises over his students, colleagues and We can do no better than to quote from Hao Wang in the 'Festschrift' Logic and Algorithmic I: Specker was ill for an extended period before completing his formal education. He had the leisure to think over many things. This experience may have helped cultivating his superiority as a person. In terms of traditional Chinese categories, I would say there is a taoist trait in him in the sense of being more detached, less competitive, and more understanding. I believe he has a better sense of what is important and arranges his life better than most logicians. We are grateful to Birkhauser Verlag for the production of this *Selecta* volume. Our special thanks go to Jonas Meon for sharing with us his intimate knowledge of his friend Ernst Specker.

**Management Science** Thomas W. Knowles 1989

**Information Systems Security** Patrick McDaniel 2007-11-29 This book constitutes the refereed proceedings of the Third International Conference on Information Systems Security, ICISS 2007, held in Delhi, India, in December 2007. The 18 revised papers and 5 short papers presented together with 4 keynote papers were carefully reviewed and selected from 78 submitted papers on topics in cryptography, intrusion detection, network security, information flow systems, Web security, and many others offer a detailed view of the state of the art in information security. The papers are organized in topical sections on network cryptography, architectures and systems, cryptanalysis, protocols, detection and recognition, as well as short papers.

**Inverse Heat Transfer Problems** Oleg M. Alifanov 2012-12-06 This research monograph presents a systematic treatment of the theory of the propagation of transient electromagnetic fields (such as optical pulses) through dielectric media which exhibit dispersion and absorption. The work divides naturally into two parts. Part I presents a summary of the fundamental theory of radiation and propagation of rather general electromagnetic waves in causal, linear media which are homogeneous and isotropic but which otherwise have rather general dispersive and absorbing properties. In Part II, we specialize to the propagation of a plane, transient electromagnetic field in a homogeneous dielectric. Although we have made some contributions to the fundamental theory given in Part I, most of the results of our own research appear in Part II. The purpose of the theory presented in Part II is to predict and to explain in explicit detail the dynamics of the field after it has propagated far enough through the medium to be in a mature-dispersion regime. It is the subject of a classic theory, based on the research conducted by A. Sommerfeld and L.

**Computing and Combinatorics** Jie Wang 2001-08-03 The authors of submitted papers come from the following countries and regions: Australia, Austria, Bangladesh, Canada, China (including Hong Kong and Taiwan), Czech Republic, France, Germany, India, Israel, Italy, Japan, Korea, New Zealand, The Netherlands, Poland, Russia, Singapore, Spain, Switzerland, U. K., and U. S. A.

Each paper was given to at least three Program Committee members, who in some cases were assisted by subreferees. In addition to the selected papers, the conference also included two invited presentations by Bernard Chazelle and Avi Wigderson.

To promote young researchers, the Hao Wang Award this year was given

to a paper selected from papers written solely by authors who, at the time of

submission, were either students or had received their doctoral degrees within the previous two years.

I am happy to announce that the recipient of this award was Xiang-Yang Li for his paper "Generating Well-Shaped d-Dimensional Delaunay Meshes".

**Flow Control of Congested Networks** Antonio R. Odoni 2012-12-06 This volume is a compendium of papers presented during the NATO Workshop which took place in Capri, Italy, October 12-18, 1986 on the general subject of "Flow Control of Congested Networks: The Case of Data Processing and Transportation", and of which we acted as co-chairmen. The focus of the workshop was on flow control methodologies, as applied to preventing or reducing congestion on: (1) data communication networks; (2) urban transportation networks; and (3) air traffic control systems. The goals of the workshop included: review of the state-of-the-art of flow control methodologies, in general, and in each of the three application areas; identification of similarities and differences in the objective functions, modeling approaches and mathematics used in the three areas; examination of opportunities for "technology transfers" and for future interactions among researchers in the three areas. These goals were pursued through individual presentations of papers on current research by workshop participants and, in the cases of the second and third goals, through a number of open-ended discussion and review sessions which were interspersed throughout the workshop's program. The full texts or extended summaries of all but a few of the papers given at the workshop are included in this volume.

**Computer Science Logic** Jörg Flum 1999-09-08 The 1999 Annual Conference of the European Association for Computer Science Logic, CSL'99, was held in Madrid, Spain, on September 20-25, 1999. CSL'99 was the 13th in a series of annual meetings, originally intended as International Workshops on Computer Science Logic, and the 8th to be held as the Annual Conference of EACSL. The conference was organized by the Computer Science Departments (DSIP and DACYA) at Universidad Complutense in Madrid (UCM). The CSL'99 program committee selected 34 of 91 submitted papers for presentation at the conference and publication in this proceedings volume. Each submitted paper was refereed by at least two, and in almost all cases, three different referees. The second refereeing round, previously required before a paper was accepted for publication in the proceedings, was dropped following a decision taken by the EACSL membership meeting held during CSL'98 (Brno, Czech Republic, August 25, 1998).

**Wetland and Stream Rapid Assessments** John Dorney 2018-08-07 Wetland and Stream Rapid Assessments: Development, Validation, and Application describes the scientific and environmental policy background for rapid wetland and stream

assessments, how such assessment methods are developed and statistically verified, and how they can be used in environmental decision-making—including wetland and stream permitting. In addition, it provides several case studies of method development and use in various parts of the world. Readers will find guidance on developing and testing such methods, along with examples of how these methods have been used in various programs across North America. Rapid wetland and stream functional assessments are becoming frequently used methods in federal, state and local environmental permitting programs in North America. Many governments are interested in developing new methods or improving existing methods for their own jurisdictions. This book provides an ideal guide to these initiatives. Offers guidance for the use and evaluation of rapid assessments to developers and users of these methods, as well as students of wetland and stream quality. Contains contributions from sources who are successful in academia, industry and government, bringing credibility and relevance to the content. Includes a statistically-based approach to testing the validity of the rapid method, which is very important to the usefulness and defensibility of assessment methods.

SOFSEM 2007: Theory and Practice of Computer Science van Leeuwen 2007-07-13 This book constitutes the refereed proceedings of the 33rd Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2007, held in Harrachov, Czech Republic in January 2007. The 69 revised full papers, presented together with 11 invited contributions were carefully reviewed and selected from 283 submissions. The papers were organized in four topical tracks.

Parallel Processing and Applied Mathematics Wyrzykowski 2002-06-12 This book constitutes the thoroughly refereed post-proceedings of the 4th International Conference on Parallel Processing and Applied Mathematics, PPAM 2002, held in Naleczna, Poland, in September 2001. The 101 papers presented were carefully reviewed and improved during two rounds of reviewing and revision. The book offers topical sections on distributed and grid architectures, scheduling and load balancing, performance analysis and prediction, parallel non-numerical algorithms, parallel programming, tools and environments, parallel numerical algorithms, applications, and evolutionary computing and neural networks.

Operations Research in Space and Air A. Ciriani 2003-05-31 Operations Research in Space and Air is a selection of papers reflecting the experience and expertise of international OR consulting companies and academic groups. The global market and competition play a crucial part in the decision making processes within the Space and Air industries and this book gives practical examples of how advanced applications can be used by Space and Air industry management. The material within the book provides both the basic background for the novice modeler and a useful reference for experienced modelers. Students, researchers and practitioners will appreciate the details of the modeling techniques, the processes that have been implemented and the computational results that demonstrate the benefits in applying OR in the Space and Airline industries. Advances in PC and Workstations technology, in optimization engines and in modeling techniques now enable solving problems, never before attempted by Operations Research. In recent years the Italian OR Society (AfRO, www.airo.org) has organized annual forums for researchers and practitioners to meet together to present and discuss the various scientific and technical OR achievements. OR in Space & Air session of AfRO2001 and AfRO2002 Conferences, together with optimization tools' applications, presented results achieved by Alenia Spazio S. p. A. (Turin), Alitalia, Milan Polytechnic and Turin Polytechnic. With additional contributions from academia and industry they have enabled us to capture, in print, today's 'state-of-the-art' optimization and data mining solutions.

Artificial Intelligence I Wasil Sgurev 1990

Proceedings of the 35th Annual ACM Symposium on the Theory of Computing

Advances in Cryptology - EUROCRYPT 2002 EUROCRYPT 2002-04-17

DongJinPark,DorianGoldfeld,ElianeJaulmes,EmmanuelBresson,Florian Hess,FrederikVercauteren,Fred'ericL'egar'e,Fred'ericValette,GlennDurfée, GuillaumePoupard,GwenaëlleMartinet,HanPilKim,HeinRoehrig,Hovav Shacham,IlyaMironov,JacquesStern,JaeEunKang,JanCamenisch,Jean-FrancoisRaymond,JensJensen,JesperBuusNielsen,JimHughes,JohnMalone-Lee,JonathanPoritz,JongHoonShin,KatsuyukiTakashima,KazueSako, KennyPaterson,KyungWeonKim,LeoReyzin,LouisGranboulan,LouisSavail,Markku-JuhaniO. Saarinen,MattRobshaw,MichaelQuisquater,Michael Waidner,MichelMitton,MikeSzydlo,MikeWiener,MotiYung,OlivierBardron,OmerReingold,PaulDumais,PaulKocher,PhilippeChose,Philippe Golle,Pierre-AlainFouque,RanCanetti,RichardJozsa,RonaldCramer,Sang Gyoosim,SangJinLee,SergeFehr,ShrishAltekar,SimonBlackburn,Stefan Wolf,StevenGalbraith,SvetlanaNikova,TaeGuKim,TalMalkin,TalRabin, Tetsulwata,ToshioHasegawa,TsuyoshiNishioka,VirgilGligor,WenboMao, YeonKyuPark,YiqunLisaYin,YongHoHwang,YuvalIshai. VI MyworkasprogramchairwasmadealoteasierbytheelectronicsubmissionsoftwarewrittenbyChanathipNampremreforCrypto2000withmodificationsbyAndreAdelsbachforEurocrypt2001,andbythereviewingsoftware developedandwrittenbyBartPreneel,WimMoreau,andJorisClaessensfor Eurocrypt2000.

I would like to thank Oleda Silva Smith for setting up all this software locally and for the help with the problems encountered. I am also grateful to Wim Moreau and Chanathip Namprem for solving some of the problems we had with the software.

On behalf of the general chair I would like to extend my gratitude to the

members of the local organizing committee at TUEindhoven, in particular to Peter Roelse and Gergely Alpar.

For financial support of the conference the organizing committee gratefully acknowledges this year's sponsors: Philips Semiconductors Cryptology Competence Center, Mitsubishi Electric Corporation, cv cryptovision, Cryptomathic, ERCIM, CMG, Sectra, EUFORCE, and EIDMA. Finally, a thank-

you go to all who submitted papers to this conference and last but not least to my family for their love and understanding. February 2002

Lars Knudsen EUROCRYPT 2002 April 28–May 2, 2002, Amsterdam, The Netherlands Sponsored by the International Association of Cryptologic Research (IACR) in cooperation with The Coding and Crypto group at the Technical University of Eindhoven in The Netherlands General Chair Berry Schoenmakers, Department of Mathematics and Computing Science, Technical University of Eindhoven, The Netherlands Program Chair Lars R. Knudsen, Department of Mathematics, Technical University of Denmark Program Committee Dan Boneh. . . . . Stanford University, USA Stefan Brands. . . . . McGill University School of Computer Science, Montreal, Canada Christian Cachin. . . . . IBM Research, Zurich, Switzerland Don Coppersmith. . . . . IBM Research, USA Ivan Damgård. . . . . Aarhus University, Denmark Anand Desai. . . . . NTT Multimedia Communications Laboratories, USA Rosario Gennaro. . . . . IBM Research, USA Alain Hiltgen. . . . . UBS, Switzerland Markus Jakobsson. . . . . RSA Laboratories, USA Thomas Johansson. . . . . University of Lund, Sweden Antoine Joux. . . . . DCSSI, France Pil Joong Lee. . . . . Postech, Korea Arjen Lenstra. . . . . Citibank and Technical University of Eindhoven Keith Martin. . . . . Royal Holloway, University of London, UK Mitsuru Matsui. . . . . Mitsubishi Electric, Japan Phong Q.

Praktische C++-Programmierung Steve Oualline 2004 Engineering Stochastic Local Search Algorithms. Designing, Implementing and Analyzing Effective Algorithms Stütze 2009-08-28 The LNCS series reports state-of-the-art results in computer science research, development, and education, at level and in both printed and electronic form. Enjoying tight cooperation with the R&D community, with numerous individuals well as with prestigious organizations and societies, LNCS has grown into the most comprehensive computer science research forum available. The scope of LNCS, including its subseries LNAI and LNBI, spans the whole range of computer science and information technology including interdisciplinary topics in a variety of application fields. The type of material published traditionally includes

Handbook of Philosophical Logic J. M. Gabbay 2006-01-17 The ninth volume of the Second Edition contains major contributions on Rewriting Logic as a Logical and Semantic Framework, Logical Frameworks, Proof Theory and Meaning, Goal Directed Deductions, Negations, Completeness and Consistency as well as Logic as General Rationality. Audience: Students and researchers whose work or interests involve philosophical logic and its applications.

Der Marsianer Andy Weir 2014-10-13 Gestrandet auf dem Mars Der Astronaut Mark Watney war auf dem besten Weg, eine lebende Legende zu werden, schließlich war er der erste Mensch in der Geschichte der Raumfahrt, der je den Mars betreten Nun, sechs Tage später, ist Mark auf dem besten Weg, der erste Mensch zu werden, der auf dem Mars sterben wird: Bei einer Expedition auf dem Roten Planeten gerät er in einen Sandsturm, und als er aus seiner Bewusstlosigkeit erwacht, ist er allein auf dem Mars. Ohne Ausrüstung. Ohne Nahrung. Und ohne Crew, denn die ist bereits auf dem Weg zurück zur Erde. Es ist der Beginn eines spektakulären Überlebenskampfes ...

Modeling, Simulation and Optimization of Complex Processes Georg Bock 2005-12-05 This proceedings volume contains a selection of papers presented at the symposium "International Conference on High Performance Scientific Computing" held at Hanoi Institute of Mathematics of the Vietnam National Center for Natural Science and Technology (NCST), March 10-14, 2005. The conference has been organized by the Hanoi Institute of Mathematics, SFB 359 "Reactive Flows, Transport and Diffusion" at Heidelberg, Ho Chi Minh City University of Technology and Interdisciplinary Center for Scientific Computing (IWR), Heidelberg. The contributions cover the broad interdisciplinary spectrum of scientific computing and present recent advances in theory, development of methods, and applications in practice. Subjects covered are mathematical modelling, numerical simulation, methods for optimization and optimal control, parallel computing, symbolic computing, software development, applications of scientific computing in physics, chemistry, biology and mechanics, environmental and hydrology problems, transport, logistics, site location, communication networks, production scheduling, industrial and commercial problems.

Graph-Theoretic Concepts in Computer Science Manfred Nagl 1995-11-17 The Interactive Atlas of Transesophageal Color Doppler Echocardiography is a new multimedia application that provides a powerful educational tool in transesophageal echocardiography (TEE). This electronic manual of TEE introduces the cardiologists, cardiac surgeons, anaesthesists and interventionalists to the diagnostic possibilities of this new technique and enables them to recognize and diagnose a wide range of acquired cardiac diseases. The CD-ROM includes 505 high-quality echocardiographic figures and 136 movies, i.e. digitally recorded video sequences, showing real echocardiographic examinations and a randomized self-test function. Following the success of the Macintosh version (14179-0) this electronic version of the Atlas of TEE (57938-9) is now available for PC/Windows and Macintosh on one CD-ROM.

#### Personal Computing 1980

Algorithms and Computation Tetsuo Asano 2006-12-07 This book constitutes the refereed proceedings of the 17th International Symposium on Algorithms and Computation, ISAAC 2006, held in Kolkata, India, December 2006. The 73 revised full papers cover algorithms and data structures, online algorithms, approximation algorithm, computational geometry, computational complexity, optimization and biology, combinatorial optimization and quantum computing, as well as distributed computing and cryptography.

