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Handbook of Parallel Computing - Sanguthevar Rajasekaran
2007-12-20

The ability of parallel computing to process large data sets and handle time-consuming operations has resulted in unprecedented advances in biological and scientific computing, modeling, and simulations. Exploring these recent developments, the Handbook of Parallel Computing: Models, Algorithms, and Applications provides comprehensive coverage on a [Public Participation and Foreign Investment Law](#) - Eric De Brabandere
2021-02-01

Public Participation and Foreign Investment Law critically discusses the different forms of public participation that can be found or envisaged in foreign investment law. It provides the first systematic treatment of public participation in foreign investment law in its main forms and from different perspectives.

Algorithms and Complexity - Bozzano G Luisa 1990-09-12

This first part presents chapters on models of computation, complexity theory, data structures, and efficient computation in many recognized sub-disciplines of Theoretical Computer Science.

[Planar Graphs](#) - William T. Trotter

This book contains research articles and extended abstracts submitted by participants in the Planar Graphs Workshop held at DIMACS in November 1991, one of four workshops held during the DIMACS Special Year on Graph Theory and Algorithms. With more than seventy participants, the workshop drew many of the top experts in this area. The book covers a wide range of topics, including enumeration, characterization problems, algorithms, extremal problems, and network flows and geometry.

[Optical Supercomputing](#) - Shlomi Dolev 2011-07-12

This book constitutes the thoroughly refereed post-conference proceedings of the Third International Workshop on Optical SuperComputing, OSC 2010, held in Bertinoro, Italy, in November 2010. The 13 papers presented were carefully reviewed and selected for inclusion in this book. Being an annual forum for research presentations on all facets of optical computing for solving hard computation tasks, OCS addresses the following topics of interest: designs or demonstrations of optical computing devices, algorithmics and complexity issues of optical computing, computation representation by photons and holograms, neural and brain inspired architectures, electro-optic devices for interacting with optical computing devices, practical implementations, analysis of existing devices and case studies, optical photonics and laser switching technologies, optical and photonic memories, optical signal processing subsystems, optical networks for high-performance computing, optical interconnections, quantum optical systems, applications and algorithms for optical devices, Alpha particles, X-rays, and nano-technologies for optical computing.

[Thinking and Problem Solving](#) - Robert J. Sternberg 2013-10-22

Thinking and Problem-Solving presents a comprehensive and up-to-date review of literature on cognition, reasoning, intelligence, and other formative areas specific to this field. Written for advanced undergraduates, researchers, and academics, this volume is a necessary reference for beginning and established investigators in cognitive and educational psychology. Thinking and Problem-Solving provides insight into questions such as: how do people solve complex problems in mathematics and everyday life? How do we generate new ideas? How do we piece together clues to solve a mystery, categorize novel events, and teach others to do the same? Provides a comprehensive literature review Covers both historical and contemporary approaches Organized for ease of use and reference Chapters authored by leading scholars

Proceedings of the Second International Seminar: Misconceptions and Educational Strategies in Science and Mathematics, July 26 - 29, 1987, Cornell University, Ithaca, NY, USA: Overview of the seminar; teacher education; teaching strategies; biology; elementary science; roster of participants - 1987

[Word Problems](#) - Stephen K. Reed 1998-12

Research by cognitive psychologists and mathematics educators has often been compartmentalized by departmental boundaries. Word Problems integrates this research to show its relevance to the debate on the reform of mathematics education. Beginning with the different knowledge structures that represent rule learning and conceptual learning, the discussion proceeds to the application of these ideas to solving word problems. This is followed by chapters on elementary, multistep, and algebra problems, which examine similarities and differences in the cognitive skills required by students as the problems become more complex. The next section, on abstracting, adapting, and representing solutions, illustrates different ways in which solutions can be transferred to related problems. The last section focuses on topics emphasized in the NCTM Standards and concludes with a chapter that evaluates some of the programs on curriculum reform.

Data Privacy Management, Cryptocurrencies and Blockchain Technology - Joaquin Garcia-Alfaro 2023-02-23

This book constitutes the refereed proceedings and revised selected papers from the ESORICS 2022 International Workshops on Data Privacy Management, Cryptocurrencies and Blockchain Technology, DPM 2022 and CBT 2022, which took place in Copenhagen, Denmark, during September 26–30, 2022. For DPM 2022, 10 full papers out of 21 submissions have been accepted for inclusion in this book. They were organized in topical sections as follows: differential privacy and data analysis; regulation, artificial intelligence, and formal verification; and leakage quantification and applications. The CBT 2022 workshop accepted 7 full papers and 3 short papers from 18 submissions. The papers were organized in the following topical sections: Bitcoin, lightning network and scalability; and anonymity, fault tolerance and governance; and short papers.

Nanofabrication Handbook - Stefano Cabrini 2012-02-24

While many books are dedicated to individual aspects of nanofabrication, there is no single source that defines and explains the total vision of the field. Filling this gap, Nanofabrication Handbook presents a unique collection of new and the most important established approaches to nanofabrication. Contributors from leading research facilities and academic institutions around the world define subfields, offer practical instructions and examples, and pave the way for future research. Helping readers to select the proper fabricating technique for their experiments, the book provides a broad vision of the most critical problems and explains how to solve them. It includes basic definitions and introduces the main underlying concepts of nanofabrication. The book also discusses the major advantages and disadvantages of each approach and offers a wide variety of examples of cutting-edge applications. Each chapter focuses on a particular method or aspect of study. For every method, the contributors describe the underlying theoretical basis, resolution, patterns and substrates used, and applications. They show how applications at the nanoscale require a different process and understanding than those at the microscale. For each experiment, they elucidate key solutions to problems relating to materials, methods, and surface considerations. A complete resource for this rapidly emerging interdisciplinary field, this handbook provides practical information for planning the experiments of any project that employs nanofabrication techniques. It gives readers a foundation to enter the complex world of nanofabrication and inspires the scientific community at large to push the limits of nanometer resolution.

Organic Computing - Sick, Bernhard 2014-01-01

This book consists of twelve different contributions that reflect several aspects of OC research. Therefore, we introduced four major categories summarizing the contents of the contributions as well as describing the different aspects of OC research in general: (1) design and architectures, (2) trustworthiness, (3) self-learning, and (4) self-x properties.

[Sailing Routes in the World of Computation](#) - Florin Manea 2018-07-23

This book constitutes the refereed proceedings of the 14th Conference on

Computability in Europe, CiE 2018, held in Kiel, Germany, in July/ August 2017. The 26 revised full papers were carefully reviewed and selected from 55 submissions. In addition, this volume includes 15 invited papers. The conference CiE 2018 has six special sessions, namely: Approximation and optimization, Bioinformatics and bio-inspired computing, computing with imperfect information, continuous computation, history and philosophy of computing (celebrating the 80th birthday of Martin Davis), and SAT-solving.

Chronic Illness - Ilene Morof Lubkin 1990

Fundamentals of Statistical and Thermal Physics - Frederick Reif 2009

Fundamentals of Statistical and Thermal Physics - Frederick Reif 1965-01-01

This book is devoted to a discussion of some of the basic physical concepts and methods useful in the description of situations involving systems which consist of very many particulars. It attempts, in particular, to introduce the reader to the disciplines of thermodynamics, statistical mechanics, and kinetic theory from a unified and modern point of view. The presentation emphasizes the essential unity of the subject matter and develops physical insight by stressing the microscopic content of the theory.

Computational Algebra - Klaus G. Fischer 2018-02-19

Based on the fifth Mid-Atlantic Algebra Conference held recently at George Mason University, Fairfax, Virginia. Focuses on both the practical and theoretical aspects of computational algebra. Demonstrates specific computer packages, including the use of CREP to study the representation of theory for finite dimensional algebras and Axiom to study algebras of finite rank.

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.

Polynomial and Matrix Computations - Dario Bini 2012-12-06

Our Subjects and Objectives. This book is about algebraic and symbolic computation and numerical computing (with matrices and polynomials). It greatly extends the study of these topics presented in the celebrated books of the seventies, [AHU] and [BM] (these topics have been under-represented in [CLR], which is a highly successful extension and updating of [AHU] otherwise). Compared to [AHU] and [BM] our volume adds extensive material on parallel computations with general matrices and polynomials, on the bit-complexity of arithmetic computations (including some recent techniques of data compression and the study of numerical approximation properties of polynomial and matrix algorithms), and on computations with Toeplitz matrices and other dense structured matrices. The latter subject should attract people working in numerous areas of application (in particular, coding, signal processing, control, algebraic computing and partial differential equations). The authors' teaching experience at the Graduate Center of the City University of New York and at the University of Pisa suggests that the book may serve as a text for advanced graduate students in mathematics and computer science who have some knowledge of algorithm design and wish to enter the exciting area of algebraic and numerical computing. The potential readership may also include algorithm and software designers and researchers specializing in the design and analysis of algorithms, computational complexity, algebraic and symbolic computing, and numerical computation.

DNA Computing - Max H. Garzon 2008-02-08

This book constitutes the thoroughly refereed postproceedings of the 13th International Meeting on DNA Computing, DNA 13, held in Memphis, TN, USA, June 4-8, 2007. The 15 revised full papers and 5 short demos together with 10 poster abstracts presented were carefully selected during two rounds of reviewing and improvement from an initial total of 62 submissions. The papers are organized in topical sections on Self Assembly, Biomolecular Machines and Automata, Codes for DNA Memories and Computing, Novel Techniques for DNA Computing in Vitro, Novel Techniques for DNA Computing in Silico as well as Models and Languages.

Cognitive Science Foundations of Instruction - Mitchell Rabinowitz 2020-02-13

This volume presents and discusses current research that makes the connection between cognitive theory and instructional application. Addressing two general issues, the first set of chapters specifies the relation between cognitive theory and the development and evaluation of instruction, while the second set deals with the questions involved in understanding and assessing cognitive skills. The outstanding feature of these chapters is that they all present in-depth discussions of the theoretical issues underlying instructional decisions. Many present specific implementations that provide examples of concrete applications of theory. In addition, the settings for implementing these examples span a broad range of instructional areas and environments, illustrating the generality and transferability of the application of theory to practice.

The Publishers' Trade List Annual - 1978

The Role of Communication in Learning To Model - Paul Brna 2014-05-12

In this book, a number of experts from various disciplines take a look at three different strands in learning to model. They examine the activity of modeling from disparate theoretical standpoints, taking into account the individual situation of the individuals involved. The chapters seek to bridge the modeling of communication and the modeling of particular scientific domains. In so doing, they seek to throw light on the educational communication that goes on in conceptual learning. Taken together, the chapters brought together in this volume illustrate the diversity and vivacity of research on a relatively neglected, yet crucially important aspect of education across disciplines: learning to model. A common thread across the research presented is the view that communication and interaction, as fundamental to most educational practices and as a repository of conceptual understanding and a learning mechanism in itself, is intimately linked to elaborating meaningful, coherent, and valid representations of the world. The editors hope this volume will contribute to both the fundamental research in its field and ultimately provide results that can be of practical value in designing new situations for teaching and learning modeling, particularly those involving computers.

Nuclear Science Abstracts - 1972

Problems and Problem Solving in Chemistry Education - Georgios Tsaparlis 2021-05-19

Problem solving is central to the teaching and learning of chemistry at secondary, tertiary and post-tertiary levels of education, opening to students and professional chemists alike a whole new world for analysing data, looking for patterns and making deductions. As an important higher-order thinking skill, problem solving also constitutes a major research field in science education. Relevant education research is an ongoing process, with recent developments occurring not only in the area of quantitative/computational problems, but also in qualitative problem solving. The following situations are considered, some general, others with a focus on specific areas of chemistry: quantitative problems, qualitative reasoning, metacognition and resource activation, deconstructing the problem-solving process, an overview of the working memory hypothesis, reasoning with the electron-pushing formalism, scaffolding organic synthesis skills, spectroscopy for structural characterization in organic chemistry, enzyme kinetics, problem solving in the academic chemistry laboratory, chemistry problem-solving in context, team-based/active learning, technology for molecular representations, IR spectra simulation, and computational quantum chemistry tools. The book concludes with methodological and epistemological issues in problem solving research and other perspectives in problem solving in chemistry. With a foreword by George Bodner.

Teaching and Learning Mathematical Problem Solving - Edward A. Silver 2013-04-03

A provocative collection of papers containing comprehensive reviews of previous research, teaching techniques, and pointers for direction of future study. Provides both a comprehensive assessment of the latest research on mathematical problem solving, with special emphasis on its teaching, and an attempt to increase communication across the active disciplines in this area.

The Shema in John's Gospel - Lori A. Baron 2022-10-11

Thinking Across Cultures - Donald M. Topping 2013-09-05

This volume compares and contrasts contemporary theories of cognition, modes of perception, and learning from cross-cultural perspectives. The participants were asked to consider and assess the question of whether

people from different cultures think differently. Moreover, they were asked to consider whether the same approaches to teaching and development of thinking will work in all cultures as well as they do in Western, literate societies.

Unconventional Computation and Natural Computation - Giancarlo Mauri 2013-06-03

This book constitutes the refereed proceedings of the 12th International Conference on Unconventional Computation and Natural Computation, UCNC 2013, held in Milan, Italy, in July 2013. The 30 papers (28 full papers, 8 poster papers, and 2 invited papers) were carefully reviewed and selected from 46 submissions. The topics of the volume include: quantum, cellular, molecular, neural, DNA, membrane, and evolutionary computing; cellular automata; computation based on chaos and dynamical systems; massive parallel computation; collective intelligence; computation based on physical principles such as relativistic, optical, spatial, collision-based computing; amorphous computing; physarum computing; hypercomputation; fuzzy and rough computing; swarm intelligence; artificial immune systems; physics of computation; chemical computation; evolving hardware; the computational nature of self-assembly, developmental processes, bacterial communication, and brain processes.

Computer Algorithms for Solving Linear Algebraic Equations - Emilio Spedicato 2012-12-06

The NATO Advanced Study Institute on "Computer algorithms for solving linear algebraic equations: the state of the art" was held September 9-21, 1990, at Il Ciocco, Barga, Italy. It was attended by 68 students (among them many well known specialists in related fields!) from the following countries: Belgium, Brazil, Canada, Czechoslovakia, Denmark, France, Germany, Greece, Holland, Hungary, Italy, Portugal, Spain, Turkey, UK, USA, USSR, Yugoslavia. Solving linear equations is a fundamental task in most of computational mathematics. Linear systems which are now encountered in practice may be of very large dimension and their solution can still be a challenge in terms of the requirements of accuracy or reasonable computational time. With the advent of supercomputers with vector and parallel features, algorithms which were previously formulated in a framework of sequential operations often need a completely new formulation, and algorithms that were not recommended in a sequential framework may become the best choice. The aim of the ASI was to present the state of the art in this field. While not all important aspects could be covered (for instance there is no presentation of methods using interval arithmetic or symbolic computation), we believe that most important topics were considered, many of them by leading specialists who have contributed substantially to the developments in these fields.

DNA Based Computers Two - Laura Faye Landweber

DNA computing is a radically different approach to computing that brings together computer science and molecular biology in a way that is wholly distinct from other disciplines. This book outlines important advances in the field and offers comprehensive discussion on potential pitfalls and the general practicality of building DNA based computers.

2004 Physics Education Research Conference - Jeffrey Marx 2005-09-29

The 2004 Physics Education Research (PER) Conference brought together researchers in how we teach physics and how it is learned. Student understanding of concepts, the efficacy of different pedagogical techniques, and the importance of student attitudes toward physics and knowledge were all discussed. These Proceedings capture an important snapshot of the PER community, containing an incredibly broad collection of research papers of work in progress.

Proceedings of the Ninth Annual ACM-SIAM Symposium on Discrete Algorithms - Howard Karloff 1998-01-01

This symposium is jointly sponsored by the ACM Special Interest Group on Algorithms and Computation Theory and the SIAM Activity Group on Discrete Mathematics.

Innovations in Engineering Design Education - American Society of Mechanical Engineers 1993

Algorithms - ESA '94 - Jan Leeuwen 1994-09-14

This book brings together recent developments in Alzheimer's disease

research with related discoveries in the field of cell biology. The book moves between basic cell biological concepts that form the underpinnings of modern Alzheimer's disease research, and current findings about proteins and cellular processes affected by the disease. Divided into three topics, the book addresses (1) protein trafficking, a problem that has become germane to the study of the amyloid precursor protein; (2) phosphorylation, a problem that underlies studies of the pathological transformation of tau to paired helical filaments; and (3) cell death, a pervasive problem in neurodegeneration.

Computer Science Handbook - Allen B. Tucker 2004-06-28

When you think about how far and fast computer science has progressed in recent years, it's not hard to conclude that a seven-year old handbook may fall a little short of the kind of reference today's computer scientists, software engineers, and IT professionals need. With a broadened scope, more emphasis on applied computing, and more than 70 chap

Learning to Solve Problems - David H. Jonassen 2010-09-13

This book provides a comprehensive, up-to-date look at problem solving research and practice over the last fifteen years. The first chapter describes differences in types of problems, individual differences among problem-solvers, as well as the domain and context within which a problem is being solved. Part one describes six kinds of problems and the methods required to solve them. Part two goes beyond traditional discussions of case design and introduces six different purposes or functions of cases, the building blocks of problem-solving learning environments. It also describes methods for constructing cases to support problem solving. Part three introduces a number of cognitive skills required for studying cases and solving problems. Finally, Part four describes several methods for assessing problem solving. Key features includes: Teaching Focus - The book is not merely a review of research. It also provides specific research-based advice on how to design problem-solving learning environments. Illustrative Cases - A rich array of cases illustrates how to build problem-solving learning environments. Part two introduces six different functions of cases and also describes the parameters of a case. Chapter Integration - Key theories and concepts are addressed across chapters and links to other chapters are made explicit. The idea is to show how different kinds of problems, cases, skills, and assessments are integrated. Author expertise - A prolific researcher and writer, the author has been researching and publishing books and articles on learning to solve problems for the past fifteen years. This book is appropriate for advanced courses in instructional design and technology, science education, applied cognitive psychology, thinking and reasoning, and educational psychology. Instructional designers, especially those involved in designing problem-based learning, as well as curriculum designers who seek new ways of structuring curriculum will find it an invaluable reference tool.

Biomolecular Information Processing - Evgeny Katz 2013-01-02

Edited by a renowned and much cited chemist, this book covers the whole span of molecular computers that are based on biomolecules. The contributions by all the major scientists in the field provide an excellent overview of the latest developments in this rapidly expanding area. A must-have for all researchers working on this very hot topic. Perfectly complements Molecular and Supramolecular Information Processing, also by Prof. Katz, and available as a two-volume set.

Energy Research Abstracts - 1987

Automata, Languages, and Programming - Javier Esparza 2014-06-11

This two-volume set of LNCS 8572 and LNCS 8573 constitutes the refereed proceedings of the 41st International Colloquium on Automata, Languages and Programming, ICALP 2014, held in Copenhagen, Denmark, in July 2014. The total of 136 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 484 submissions. The papers are organized in three tracks focussing on Algorithms, Complexity, and Games, Logic, Semantics, Automata, and Theory of Programming, Foundations of Networked Computation.

DNA Computing - Claudio Ferretti 2005-06-13

The meeting took place at the University of Milano-Bicocca, Milan, Italy, from June 7 to June 10, 2004, and it was organized by the University of Milano-Bicocca and the Department of Informatics of the University of Milano-Bicocca.