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Parallelism, Scalability, Programmability
Computer Architecture and Parallel Processing
Parallel Computing: Fundamentals, Applications and New Directions
High Performance Algorithms for Structured Matrix Problems
Scientific Computing in Object-Oriented Parallel Environments
High Performance Computing and the Art of Parallel Programming
Principles, Business Models, and Terminology
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Numerical Algorithms for Modern Parallel Computer Architectures
Computer Organization and Design MIPS Edition
18th International Symposium, Antalya, Turkey, November 3-5, 2003, Proceedings
Architecture and Software for High-Performance Compute Clusters
Smart Adaptive Systems on Silicon
An Executive's Guide to Information Technology
Computer and Information Sciences -- ISCIS 2003
A Tutorial on Elliptic PDE Solvers and Their Parallelization
First International Conference, ISCOPE '97, Marina Del Rey, California, December 8-11, 1997. Proceedings
Fluctuation Phenomena: Disorder And Nonlinearity - Proceedings Of The International Workshop
A Quantitative Approach
Alternating Directions Methods for the Parallel Solution of Large-scale Block-structured Optimization Problems
Parallel Algorithms for Matrix Computations
Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security
Solutions Manual to Accompany Hwang Advanced Computer Architecture
The Essentials of Computer Organization and Architecture

BARKER WISE

Computer Organization, Design, and Architecture, Fourth Edition KHANNA PUBLISHING HOUSE

Parallel computers have started to completely revolutionize scientific computation. Articles in this volume represent applied mathematics, computer science, and application aspects of parallel scientific computing. Major advances are discussed dealing with multiprocessor architectures, parallel algorithm development and analysis, parallel systems and programming languages. The optimization of the application of massively parallel architectures to real world problems will provide the impetus for the development of entirely new approaches to these technical situations.

The Impact of Vector and Parallel Architectures on the Gaussian Elimination Algorithm Jones & Bartlett Learning

Solutions Manual to Accompany Hwang Advanced Computer Architecture Parallelism, Scalability, Programmability Numerical Solution of Partial Differential Equations on Parallel Computers Springer Science & Business Media

3D IC and RF SiPs: Advanced Stacking and Planar Solutions for 5G Mobility Routledge

Entity Identification to Virtual Reality in Driving Simulation

Volume 13 - Optical Disks to Production Scheduling SIAM

Internet usage has become a facet of everyday life, especially as more technological advances have made it easier to connect to the web from virtually anywhere in the developed world. However, with this increased usage comes heightened threats to security within digital environments. The Handbook of Research on Modern Cryptographic Solutions for Computer and Cyber Security identifies emergent research and techniques being utilized in the field of cryptology and cyber threat prevention. Featuring theoretical perspectives, best practices, and future research directions, this handbook of research is a vital resource for professionals, researchers, faculty members, scientists, graduate students, scholars, and software developers interested in threat identification and prevention.

Methods and Applications for Advancing Distance Education Technologies: International Issues and Solutions PHI Learning Pvt. Ltd.

While information technology continues to play a vital role in every aspect of our lives, there is a greater need for the security and protection of this information. Ensuring the trustworthiness and integrity is important in order for data to be used appropriately. Privacy Solutions and Security Frameworks in Information Protection explores the areas of concern in guaranteeing the security and privacy of data and related technologies. This reference source includes a range of topics in information security and privacy provided for a diverse readership ranging from academic and professional researchers to industry practitioners.

Computer Architecture SIAM

Today's highly parameterized large-scale distributed computing systems may be composed of a large number of various components (computers, databases, etc) and must provide a wide range of services. The users of such systems, located at different (geographical or managerial) network cluster may have a limited access to the system's services and resources, and different, often conflicting, expectations and requirements. Moreover, the information and data processed in such dynamic environments may be incomplete, imprecise, fragmentary, and overloading. All of the above mentioned issues require some intelligent scalable methodologies for the management of the whole complex structure, which unfortunately may increase the energy consumption of such systems. An optimal energy utilization has reached to a point that many information technology (IT) managers and corporate executives are all up in arms to identify scalable solution that can reduce electricity consumption (so that the total cost of operation is minimized) of their respective large-scale computing systems and simultaneously improve upon or maintain the current throughput of the system. This book in its eight chapters, addresses the fundamental issues related to the energy usage and the optimal low-cost system design in high performance "green computing" systems. The recent evolutionary and general metaheuristic-based solutions for energy optimization in data processing, scheduling, resource allocation, and communication in modern computational grids, could and network computing are presented along with several important conventional technologies to cover the hot topics from the fundamental theory of the "green computing" concept and to describe the basic architectures of systems. This book points out the potential application areas and provides detailed examples of application case studies in low-energy computational systems. The development trends and open research issues are also outlined. All of those technologies have formed the foundation for the green computing that we know of today.

Solving Partial Differential Equations on Parallel Computers Springer Science & Business Media

A Tutorial on Elliptic PDE Solvers and Their Parallelization is a valuable aid for learning about the possible errors and bottlenecks in parallel computing. One of the highlights of the tutorial is that the course material can run on a laptop, not just on a parallel computer or cluster of PCs, thus allowing readers to experience their first successes in parallel computing in a relatively short amount of time. This tutorial is intended for advanced undergraduate and graduate students in computational sciences and engineering; however, it may also be helpful to professionals who use PDE-based parallel computer simulations in the field.

Parallelism, Scalability, Programmability Springer

Computer Organization and Design, Fifth Edition, is the latest update to the classic introduction to computer organization. The text now contains new examples and material highlighting the emergence of mobile computing and the cloud. It explores this generational change with updated content featuring tablet computers, cloud infrastructure, and the ARM (mobile computing devices) and x86 (cloud computing) architectures. The book uses a MIPS processor core to present the fundamentals of hardware technologies, assembly language, computer arithmetic, pipelining, memory hierarchies and I/O. Because an understanding of modern hardware is essential to achieving

good performance and energy efficiency, this edition adds a new concrete example, Going Faster, used throughout the text to demonstrate extremely effective optimization techniques. There is also a new discussion of the Eight Great Ideas of computer architecture. Parallelism is examined in depth with examples and content highlighting parallel hardware and software topics. The book features the Intel Core i7, ARM Cortex-A8 and NVIDIA Fermi GPU as real-world examples, along with a full set of updated and improved exercises. This new edition is an ideal resource for professional digital system designers, programmers, application developers, and system software developers. It will also be of interest to undergraduate students in Computer Science, Computer Engineering and Electrical Engineering courses in Computer Organization, Computer Design, ranging from Sophomore required courses to Senior Electives. Winner of a 2014 Texty Award from the Text and Academic Authors Association Includes new examples, exercises, and material highlighting the emergence of mobile computing and the cloud Covers parallelism in depth with examples and content highlighting parallel hardware and software topics Features the Intel Core i7, ARM Cortex-A8 and NVIDIA Fermi GPU as real-world examples throughout the book Adds a new concrete example, "Going Faster," to demonstrate how understanding hardware can inspire software optimizations that improve performance by 200 times Discusses and highlights the "Eight Great Ideas" of computer architecture: Performance via Parallelism; Performance via Pipelining; Performance via Prediction; Design for Moore's Law; Hierarchy of Memories; Abstraction to Simplify Design; Make the Common Case Fast; and Dependability via Redundancy Includes a full set of updated and improved exercises

Computer Architecture and Parallel Processing Springer

This volume reviews, in the context of partial differential equations, algorithm development that has been specifically aimed at computers that exhibit some form of parallelism. Emphasis is on the solution of PDEs because these are typically the problems that generate high computational demands. The authors discuss architectural features of these computers inasmuch as they influence algorithm performance, and provide insight into algorithm characteristics that allow effective use of hardware.

Parallel Computing: Fundamentals, Applications and New Directions Springer

Content Description #Includes bibliographical references and index.

High Performance Algorithms for Structured Matrix Problems Springer Science & Business Media

Computer Architecture: A Quantitative Approach, Sixth Edition has been considered essential reading by instructors, students and practitioners of computer design for over 20 years. The sixth edition of this classic textbook from Hennessy and Patterson, winners of the 2017 ACM A.M. Turing Award recognizing contributions of lasting and major technical importance to the computing field, is fully revised with the latest developments in processor and system architecture. The text now features examples from the RISC-V (RISC Five) instruction set architecture, a modern RISC instruction set developed and designed to be a free and openly adoptable standard. It also includes a new chapter on domain-specific architectures and an updated chapter on warehouse-scale computing that features the first public information on Google's newest WSC. True to its original mission of demystifying computer architecture, this edition continues the longstanding tradition of focusing on areas where the most exciting computing innovation is happening, while always keeping an emphasis on good engineering design. Winner of a 2019 Textbook Excellence Award (Texty) from

the Textbook and Academic Authors Association Includes a new chapter on domain-specific architectures, explaining how they are the only path forward for improved performance and energy efficiency given the end of Moore's Law and Dennard scaling Features the first publication of several DSAs from industry Features extensive updates to the chapter on warehouse-scale computing, with the first public information on the newest Google WSC Offers updates to other chapters including new material dealing with the use of stacked DRAM; data on the performance of new NVIDIA Pascal GPU vs. new AVX-512 Intel Skylake CPU; and extensive additions to content covering multicore architecture and organization Includes "Putting It All Together" sections near the end of every chapter, providing real-world technology examples that demonstrate the principles covered in each chapter Includes review appendices in the printed text and additional reference appendices available online Includes updated and improved case studies and exercises ACM named John L. Hennessy and David A. Patterson, recipients of the 2017 ACM A.M. Turing Award for pioneering a systematic, quantitative approach to the design and evaluation of computer architectures with enduring impact on the microprocessor industry

Scientific Computing in Object-Oriented Parallel Environments Solutions Manual to Accompany Hwang Advanced Computer Architecture Parallelism, Scalability, Programmability Numerical Solution of Partial Differential Equations on Parallel Computers Suitable for a one- or two-semester undergraduate or beginning graduate course in computer science and computer engineering, Computer Organization, Design, and Architecture, Fourth Edition presents the operating principles, capabilities, and limitations of digital computers to enable development of complex yet efficient systems. With 40% updated material and four new chapters, this edition takes students through a solid, up-to-date exploration of single- and multiple-processor systems, embedded architectures, and performance evaluation. New to the Fourth Edition Additional material that covers the ACM/IEEE computer science and engineering curricula More coverage on computer organization, embedded systems, networks, and performance evaluation Expanded discussions of RISC, CISC, VLIW, and parallel/pipelined architectures The latest information on integrated circuit technologies and devices, memory hierarchy, and storage Updated examples, references, and problems Supplying appendices with relevant details of integrated circuits reprinted from vendors' manuals, this book provides all of the necessary information to program and design a computer system.

High Performance Computing and the Art of Parallel Programming Springer Science & Business Media

Electrical energy usage is increasing every year due to population growth and new forms of consumption. As such, it is increasingly imperative to research methods of energy control and safe use. Security Solutions and Applied Cryptography in Smart Grid Communications is a pivotal reference source for the latest research on the development of smart grid technology and best practices of utilization. Featuring extensive coverage across a range of relevant perspectives and topics, such as threat detection, authentication, and intrusion detection, this book is ideally designed for academicians, researchers, engineers and students seeking current research on ways in which to implement smart grid platforms all over the globe.

Principles, Business Models, and Terminology Springer

This comprehensive volume introduces educational units dealing with important topics in Mathematics, Modelling and Algorithms. Key Features: Illustrative examples and exercises
Comprehensive bibliography

Encyclopedia of Computer Science and Technology Alpha Science Int'l Ltd.

Since the dawn of computing, the quest for a better understanding of Nature has been a driving force for technological development. Groundbreaking achievements by great scientists have paved the way from the abacus to the supercomputing power of today. When trying to replicate Nature in the computer's silicon test tube, there is need for precise and computable process descriptions. The scientific fields of Mathematics and Physics provide a powerful vehicle for such descriptions in terms of Partial Differential Equations (PDEs). Formulated as such equations, physical laws can become subject to computational and analytical studies. In the computational setting, the equations can be discretized for efficient solution on a computer, leading to valuable tools for simulation of natural and man-made processes. Numerical solution of PDE-based mathematical models has been an important research topic over centuries, and will remain so for centuries to come. In the context of computer-based simulations, the quality of the computed results is directly connected to the model's complexity and the number of data points used for the computations. Therefore, computational scientists tend to fill even the largest and most powerful computers they can get access to, either by increasing the size of the data sets, or by introducing new model terms that make the simulations more realistic, or a combination of both. Today, many important simulation problems can not be solved by one single computer, but calls for parallel computing.

The Hardware/Software Interface Elsevier

Describes the introduction of advanced computer architecture and parallel processing. Covers the paradigms of computing like synchronous and asynchronous. Detailed explanation of the Flynn's classification, King's taxonomy and reduction paradigm. Provides a detailed treatment of abstract parallel computational models like combination circuits, sorting network, PRAM models, interconnection RAMs. Covers the parallelism in uni processor systems. Provides an extensive treatment of parallel computer structures like pipeline computers, array computers and multiprocessor systems. Covers the concepts of pipeline and classification of pipeline processors. Give description of super scalar, super pipeline design and VLIW processors. Explains the design

structures and algorithms for array processors.

Volume 39 - Supplement 24 - Entity Identification to Virtual Reality in Driving Simulation CRC Press
This concise text is designed to present the recent advances in parallel and distributed architectures and algorithms within an integrated framework. Beginning with an introduction to the basic concepts, the book goes on discussing the basic methods of parallelism exploitation in computation through vector processing, super scalar and VLIW processing, array processing, associative processing, systolic algorithms, and dataflow computation. After introducing interconnection networks, it discusses parallel algorithms for sorting, Fourier transform, matrix algebra, and graph theory. The second part focuses on basics and selected theoretical issues of distributed processing. Architectures and algorithms have been dealt in an integrated way throughout the book. The last chapter focuses on the different paradigms and issues of high performance computing making the reading more interesting. This book is meant for the senior level undergraduate and postgraduate students of computer science and engineering, and information technology. The book is also useful for the postgraduate students of computer science and computer application.

Encyclopedia of Microcomputers IGI Global

Computer Architecture/Software Engineering

International Issues and Solutions IGI Global

Mathematics of Computing -- Parallelism.

Parallel Programming Newnes

Scalable Coherent Interface (SCI) is an innovative interconnect standard (ANSI/IEEE Std 1596-1992) addressing the high-performance computing and networking domain. This book describes in depth one specific application of SCI: its use as a high-speed interconnection network (often called a system area network, SAN) for compute clusters built from commodity workstation nodes. The editors and authors, coming from both academia and industry, have been instrumental in the SCI standardization process, the development and deployment of SCI adapter cards, switches, fully integrated clusters, and software systems, and are closely involved in various research projects on this important interconnect. This thoroughly cross-reviewed state-of-the-art survey covers the complete hardware/software spectrum of SCI clusters, from the major concepts of SCI, through SCI hardware, networking, and low-level software issues, various programming models and environments, up to tools and application experiences.

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