

Algorithmically Specialized Parallel Computers

Edited by

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Algorithmically Specialized Parallel Computers:

Algorithmically Specialized Parallel Computers Lawrence Snyder, Leah H. Jamieson, Dennis B. Gannon, 2014-05-10
Algorithmically Specialized Parallel Computers focuses on the concept and characteristics of an algorithmically specialized computer. This book discusses the algorithmically specialized computers, algorithmic specialization using VLSI and innovative architectures. The architectures and algorithms for digital signal speech and image processing and specialized architectures for numerical computations are also elaborated. Other topics include the model for analyzing generalized inter-processor pipelined architecture for search tree maintenance and specialized computer organization for raster graphics display. The data base applications of the FETCH AND ADD instruction, distributed parallel architecture for speech understanding and two parallel formulations of particle in cell models are likewise covered in this text. This publication is suitable for students, researchers, and professionals concerned with algorithmically specialized computers. *NASA Tech Briefs*, 1991 **Fast**

Algorithms and Their Implementation on Specialized Parallel Computers Jozef Mikloško, 1989. Recognizing the need for a comprehensive overview of new results, this book looks at the problems of creating fast numerical and nonnumerical algorithms. It also contains analyses of their properties and possibilities of their efficient implementation on specialized parallel computers. Instead of treating these problems separately, the book deals with them in their complexity, taking into account their mutual relationships. Attention is paid to the following topics: methods of creating fast parallel algorithms; parallel algorithms for associative computers; systolic algorithms and their implementation on specialized processors; algorithms for pipeline and matrix processors and for multiprocessors; solution of a system of linear equations on specialized computers; lower time bounds for SIMD type algorithms. *Energy Research Abstracts*, 1986 **Tutorial,**

Interconnection Networks for Parallel and Distributed Processing Chuan-lin Wu, Tse-yun Feng, 1984

Multi-Computer Architectures for Artificial Intelligence Leonard Uhr, 1987-02-20. This volume is the most current and complete evaluation of multi-computer networks. It presents an up-to-date and detailed survey which describes the large number of multi-computer architectures that have been built during the past few years and the even greater variety that are presently being built, designed, and explored. Special emphasis is given to approaches that show promise for handling complex real-world problems in real time. Describes the range of problems that confront workers in artificial intelligence (AI) and explains some of the major approaches being taken by AI researchers focusing on the robust, flexible, extremely fast, hence highly parallel systems. Presents judgements and opinions as to the most promising multi-computer architectures for AI, including a number of exciting multi-computer structures. **Tutorial Supercomputers** Kai Hwang, 1984

Microcomputers--usage, Methods, and Structures Harald Schumny, John Mølgaard, 1987 *The Design and Analysis of Parallel Algorithms* Selim G. Akl, 1989. Mathematics of Computing Parallelism *Parallel Computations and Their Impact on Mechanics* American Society of Mechanical Engineers. Winter Annual Meeting, 1987 **Proceedings: Industrial**

supercomputer applications and computations ,1987 **Hierarchical Hypercube Multicomputer Interconnection Networks** Sivarama P. Dandamudi,1991 **Directory of Published Proceedings** ,1991 *Proceedings of the International Conference on Application Specific Array Processors* Sun Yuan Kung,1990 *Proceedings of the 1986 International Conference on Parallel Processing* ,1986 *Multicomputer Vision* S. Levialdi,1988 □□□□□□□□□□□□□□□□□□
□□ ,1985 **Proceedings, IEEE International Conference on Computer Design, VLSI in Computers** ,1985
 Mathematical Reviews ,1986 **British Books in Print** ,1986

Reviewing **Algorithmically Specialized Parallel Computers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Algorithmically Specialized Parallel Computers**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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