

COMPUTATIONAL COMPLEXITY of SEQUENTIAL and PARALLEL ALGORITHMS

Lydia Kronsjo



COMPUTATIONAL COMPLEXITY

Computational Complexity Of Sequential And Parallel Algorithms

V V Voevodin



Computational Complexity Of Sequential And Parallel Algorithms:

Computational Complexity of Sequential and Parallel Algorithms Lydia Kronsjö, Lydia I. Kronsjö, 1986-04-24
Presents a concise treatment of important results from the theory and application of sequential algorithms and introduces parallel algorithms Allows the reader to compare contrast and appreciate unique features of the computing environment Presents important achievements in design methodology of sequential algorithms Introduces new solutions in the field of parallel algorithms

COMPUTATIONAL COMPLEXITY OF SEQUENTIAL AND PARALLEL ALGORITHMS, 1985

Parallel Processing and Parallel Algorithms Seyed H Roosta, 2012-12-06 Motivation It is now possible to build powerful single processor and multiprocessor systems and use them efficiently for data processing which has seen an explosive expansion in many areas of computer science and engineering One approach to meeting the performance requirements of the applications has been to utilize the most powerful single processor system that is available When such a system does not provide the performance requirements pipelined and parallel processing structures can be employed The concept of parallel processing is a departure from sequential processing In sequential computation one processor is involved and performs one operation at a time On the other hand in parallel computation several processors cooperate to solve a problem which reduces computing time because several operations can be carried out simultaneously Using several processors that work together on a given computation illustrates a new paradigm in computer problem solving which is completely different from sequential processing From the practical point of view this provides sufficient justification to investigate the concept of parallel processing and related issues such as parallel algorithms Parallel processing involves utilizing several factors such as parallel architectures parallel algorithms parallel programming languages and performance analysis which are strongly interrelated In general four steps are involved in performing a computational problem in parallel The first step is to understand the nature of computations in the specific application domain

Complexity of Sequential and Parallel Numerical Algorithms Joseph Frederick Traub, 1973 *Complexity of Sequential and Parallel Algorithms [proceedings]* Carnegie-Mellon University, 1973

Elements of the General Theory of Optimal Algorithms Ivan V. Sergienko, Valeriy K. Zadiraka, Oleg M. Lytvyn, 2022-01-11 In this monograph the authors develop a methodology that allows one to construct and substantiate optimal and suboptimal algorithms to solve problems in computational and applied mathematics Throughout the book the authors explore well known and proposed algorithms with a view toward analyzing their quality and the range of their efficiency The concept of the approach taken is based on several theories of computations of optimal algorithms of interpolation interpolation and interpolation of functions to name several Theoretical principles and practical aspects of testing the quality of algorithms and applied software are a major component of the exposition The computer technology in construction of efficient algorithms for computing solutions to problems of computational and applied mathematics is also explored The readership for this monograph is aimed at scientists postgraduate students

advanced students and specialists dealing with issues of developing algorithmic and software support for the solution of problems of computational and applied mathematics

Advanced Computer Architecture and Parallel Processing Hesham El-Rewini, Mostafa Abd-El-Barr, 2005-03-25 Computer architecture deals with the physical configuration logical structure formats protocols and operational sequences for processing data controlling the configuration and controlling the operations over a computer It also encompasses word lengths instruction codes and the interrelationships among the main parts of a computer or group of computers This two volume set offers a comprehensive coverage of the field of computer organization and architecture

The Design and Analysis of Parallel Algorithms Selim G. Akl, 1989 Mathematics of Computing Parallelism

Mathematical Reviews, 1999 Mathematical Foundations Of Parallel Computing V V Voevodin, 1992-03-24 Parallel implementation of algorithms involves many difficult problems In particular among them are round off analysis the way to convert sequential programs and algorithms into the parallel mode the choice of appropriate or optimal computer architect and so on To solve these problems it is necessary to know very well the structure of algorithms This book deal with the mathematical mechanism that permits us to investigate structures of both sequential and parallel algorithms This mechanism allows us to recognize and explain the relations between different methods of constructing parallel algorithms the methods of analysing round off errors the methods of optimizing memory traffic the methods of working out the fastest implementation for a given parallel computer and other methods attending the joint investigation of algorithms and computers

Annual ACM Symposium on Parallel Algorithms and Architectures, 2004

Knowledge Enterprise: Intelligent Strategies in Product Design, Manufacturing, and Management Kesheng Wang, George L. Kovacs, Michael Wozny, Minglun Fang, 2006-05-26 This volume contains the edited technical presentations of PROLMAT 2006 the IFIP TC5 international conference held on June 15 17 2006 at the Shanghai University in China The papers collected here concentrate on knowledge strategies in Product Life Cycle and bring together researchers and industrialists with the objective of reaching a mutual understanding of the scientific industry dichotomy while facilitating the transfer of core research knowledge to core industrial competencies

Conference Record of POPL '95, 1995 Proceedings of Parallel Computing

1994 IEEE International Symposium on Circuits and Systems, 1994

Proceedings of the ... Annual ACM-SIAM Symposium on Discrete Algorithms, 1999

Computing and Information Ryszard Janicki, Waldemar W. Koczkodaj, 1989

Theory of Algorithms László Lovász, E. Szemerédi, 1985 These papers embrace many topics of theoretical computer science including algorithm problems on lattices parallel computing maze searching NP hard and NP complete problems and some new approaches to characterize computational complexity

Communication Complexity F Hossfeld Tight Worst Case Bounds for Bin Packing Algorithms A Ivanyi Hypergraph Planarity and the Complexity of Drawing Venn Diagrams D S Johnson and H O Pollak Convolutional Characterization of Computability and Complexity of Computations S Jukna Succinct Data Representations and the Complexity of Computations S Jukna Lattices Basis Reduction and the Shortest

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Adopting the Track of Phrase: An Emotional Symphony within **Computational Complexity Of Sequential And Parallel Algorithms**

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