

# Hypercube Algorithms: With Applications to Image Processing and Pattern Recognition (Bilkent University Lecture)

Ranka, Sanjay

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# Hypercube Algorithms With Applications To Image Processing And Pattern Recognition

**F. Thomson Leighton**



## **Hypercube Algorithms With Applications To Image Processing And Pattern Recognition:**

*Hypercube Algorithms* Sanjay Ranka, Sartaj Sahni, 2012-12-06 Fundamentals algorithms for SIMD and MIMD hypercubes are developed These include algorithms for such problems as data broadcasting data sum prefix sum shift data circulation data accumulation sorting random access reads and writes and data permutation The fundamental algorithms are then used to obtain efficient hypercube algorithms for matrix multiplication image processing problems such as convolution template matching hough transform clustering and image processing transformation and string editing Most of the algorithms in this book are for hypercubes with the number of processors being a function of problems size However for image processing problems the book also includes algorithms for and MIMD hypercube with a small number of processes Experimental results on an NCUBE 77 MIMD hypercube are also presented The book is suitable for use in a one semester or one quarter course on hypercube algorithms For students with no prior exposure to parallel algorithms it is recommended that one week will be spent on the material in chapter 1 about six weeks on chapter 2 and one week on chapter 3 The remainder of the term can be spent covering topics from the rest of the book

**Data Management and Internet Computing for Image/Pattern Analysis** David D. Zhang, Xiaobo Li, Zhiyong Liu, 2012-12-06 Data Management and Internet Computing for Image Pattern Analysis focuses on the data management issues and Internet computing aspect of image processing and pattern recognition research The book presents a comprehensive overview of the state of the art providing detailed case studies that emphasize how image and pattern IAP data are distributed and exchanged on sequential and parallel machines and how the data communication patterns in low and higher level IAP computing differ from general numerical computation what problems they cause and what opportunities they provide The studies also describe how the images and matrices should be stored accessed and distributed on different types of machines connected to the Internet and how Internet resource sharing and data transmission change traditional IAP computing Data Management and Internet Computing for Image Pattern Analysis is divided into three parts the first part describes several software approaches to IAP computing citing several representative data communication patterns and related algorithms the second part introduces hardware and Internet resource sharing in which a wide range of computer architectures are described and memory management issues are discussed and the third part presents applications ranging from image coding restoration and progressive transmission Data Management and Internet Computing for Image Pattern Analysis is an excellent reference for researchers and may be used as a text for advanced courses in image processing and pattern recognition

[Algorithms and Theory of Computation Handbook, Volume 2](#) Mikhail J. Atallah, Marina Blanton, 2009-11-20 Algorithms and Theory of Computation Handbook Second Edition Special Topics and Techniques provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems Along with updating and revising many of

**Algorithms and Theory of Computation Handbook** Mikhail J. Atallah, 1998-11-23

Algorithms and Theory of Computation Handbook is a comprehensive collection of algorithms and data structures that also covers many theoretical issues. It offers a balanced perspective that reflects the needs of practitioners including emphasis on applications within discussions on theoretical issues. Chapters include information on finite precision issues as well as discussion of specific algorithms where algorithmic techniques are of special importance including graph drawing robotics forming a VLSI chip vision and image processing data compression and cryptography. The book also presents some advanced topics in combinatorial optimization and parallel distributed computing applications areas where algorithms and data structuring techniques are of special importance: graph drawing robot algorithms VLSI layout vision and image processing algorithms scheduling electronic cash data compression dynamic graph algorithms on line algorithms multidimensional data structures cryptography advanced topics in combinatorial optimization and parallel distributed computing.

*Transputer Applications and Systems '94* A. De Gloria, M. R. Jane, D. Marini, 1994. Proceedings Parallel Computing

**Parallel Computation** Peter Zinterhof, Marian Vajtersic, Andreas Uhl, 2003-05-21. This book constitutes the refereed proceedings of the 4th International Conference on Parallel Computation ACPC 99 held in Salzburg Austria in February 1999. The conference included special tracks on parallel numerics and on parallel computing in image processing video processing and multimedia. The volume presents 50 revised full papers selected from a total of 75 submissions. Also included are four invited papers and 15 posters. The papers are organized in topical sections on linear algebra differential equations and interpolation Quasi Monte Carlo methods numerical software numerical applications image segmentation and image understanding motion estimation and block matching video processing wavelet techniques satellite image processing data structures data partitioning resource allocation and performance analysis cluster computing and simulation and applications.

*Parallel Processing for Artificial Intelligence 1* L.N. Kanal, H. Kitano, V. Kumar, C.B. Suttner, 2014-06-28. Parallel processing for AI problems is of great current interest because of its potential for alleviating the computational demands of AI procedures. The articles in this book consider parallel processing for problems in several areas of artificial intelligence: image processing knowledge representation in semantic networks production rules mechanization of logic constraint satisfaction parsing of natural language data filtering and data mining. The publication is divided into six sections. The first addresses parallel computing for processing and understanding images. The second discusses parallel processing for semantic networks which are widely used means for representing knowledge methods which enable efficient and flexible processing of semantic networks are expected to have high utility for building large scale knowledge based systems. The third section explores the automatic parallel execution of production systems which are used extensively in building rule based expert systems systems containing large numbers of rules are slow to execute and can significantly benefit from automatic parallel execution. The exploitation of parallelism for the mechanization of logic is dealt with in the fourth section. While sequential control aspects pose problems for the parallelization of production systems logic has a purely declarative interpretation which does not

demand a particular evaluation strategy In this area therefore very large search spaces provide significant potential for parallelism In particular this is true for automated theorem proving The fifth section considers the problem of constraint satisfaction which is a useful abstraction of a number of important problems in AI and other fields of computer science It also discusses the technique of consistent labeling as a preprocessing step in the constraint satisfaction problem Section VI consists of two articles each on a different important topic The first discusses parallel formulation for the Tree Adjoining Grammar TAG which is a powerful formalism for describing natural languages The second examines the suitability of a parallel programming paradigm called Linda for solving problems in artificial intelligence Each of the areas discussed in the book holds many open problems but it is believed that parallel processing will form a key ingredient in achieving at least partial solutions It is hoped that the contributions sourced from experts around the world will inspire readers to take on these challenging areas of inquiry

Introduction to Parallel Algorithms and Architectures F. Thomson Leighton, 2014-05-12

Introduction to Parallel Algorithms and Architectures Arrays Trees Hypercubes provides an introduction to the expanding field of parallel algorithms and architectures This book focuses on parallel computation involving the most popular network architectures namely arrays trees hypercubes and some closely related networks Organized into three chapters this book begins with an overview of the simplest architectures of arrays and trees This text then presents the structures and relationships between the dominant network architectures as well as the most efficient parallel algorithms for a wide variety of problems Other chapters focus on fundamental results and techniques and on rigorous analysis of algorithmic performance This book discusses as well a hybrid of network architecture based on arrays and trees called the mesh of trees The final chapter deals with the most important properties of hypercubes This book is a valuable resource for readers with a general technical background

**Computer Algorithms C++** Ellis Horowitz, Sartaj Sahni, Sanguthevar Rajasekaran, 1997 The author team that established its reputation nearly twenty years ago with Fundamentals of Computer Algorithms offers this new title available in both pseudocode and C versions Ideal for junior senior level courses in the analysis of algorithms this well researched text takes a theoretical approach to the subject creating a basis for more in depth study and providing opportunities for hands on learning Emphasizing design technique the text uses exciting state of the art examples to illustrate design strategies

**Algorithms and Theory of Computation Handbook - 2 Volume Set** Mikhail J. Atallah, Marina Blanton, 2022-05-29 Algorithms and Theory of Computation Handbook Second Edition in a two volume set provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems New to the Second Edition Along with updating and revising many of the existing chapters this second edition contains more than 20 new chapters This edition now covers external memory parameterized self stabilizing and pricing algorithms as well as the theories of algorithmic coding privacy and anonymity databases computational games and communication networks It also discusses computational

topology computational number theory natural language processing and grid computing and explores applications in intensity modulated radiation therapy voting DNA research systems biology and financial derivatives This best selling handbook continues to help computer professionals and engineers find significant information on various algorithmic topics The expert contributors clearly define the terminology present basic results and techniques and offer a number of current references to the in depth literature They also provide a glimpse of the major research issues concerning the relevant topics

**Image and Text Compression** James A. Storer, 2012-12-06 James A Storer Computer Science Dept Brandeis University Waltham MA 02254 Data compression is the process of encoding a body of data to reduce storage requirements With Lossless compression data can be decompressed to be identical to the original whereas with lossy compression decompressed data may be an acceptable approximation according to some fidelity criterion to the original For example with digitized video it may only be necessary that the decompressed video look as good as the original to the human eye The two primary functions of data compression are Storage The capacity of a storage device can be effectively increased with data compression software or hardware that compresses a body of data on its way to the storage device and decompress it when it is retrieved Communications The bandwidth of a digital communication link can be effectively increased by compressing data at the sending end and decompressing data at the receiving end Here it can be crucial that compression and decompression can be performed in real time

**Euro-Par 2000 Parallel Processing** Arndt Bode, Thomas Ludwig, Wolfgang Karl, Roland Wismüller, 2003-06-26 Euro Par the European Conference on Parallel Computing is an international conference series dedicated to the promotion and advancement of all aspects of parallel computing The major themes can be divided into the broad categories of hardware software algorithms and applications for parallel computing The objective of Euro Par is to provide a forum within which to promote the development of parallel computing both as an industrial technique and an academic discipline extending the frontier of both the state of the art and the state of the practice This is particularly important at a time when parallel computing is undergoing strong and sustained development and experiencing real industrial take up The main audience for and participants of Euro Par are seen as researchers in academic departments government laboratories and industrial organisations Euro Par's objective is to become the primary choice of such professionals for the presentation of new results in their specific areas Euro Par is also interested in applications that demonstrate the effectiveness of the main Euro Par themes Euro Par now has its own Internet domain with a permanent Web site where the history of the conference series is described <http://www.euro-par.org> The Euro Par conference series is sponsored by the Association of Computer Machinery and the International Federation of Information Processing

**Interconnection Networks and Mapping and Scheduling Parallel Computations** Derbiau Frank Hsu, Arnold L. Rosenberg, Dominique Sotteau, 1995-01-01 This book contains the refereed proceedings of a DIMACS Workshop on Massively Parallel Computation

**Computer Science in Perspective** Rolf Klein, Hans-Werner Six, Lutz Wegner, 2003-07-01 By

presenting state of the art aspects of theoretical computer science and practical applications in various fields this book commemorates the 60th birthday of Thomas Ottmann The 26 research papers presented span the whole range of Thomas Ottmann s scientific career from formal languages to algorithms and data structures from topics in practical computer science like software engineering or database systems to applications of Web technology groupware and e learning **Next Generation of Internet of Things** Raghvendra Kumar,Brojo Kishore Mishra,Prasant Kumar Pattnaik,2021-06-14 This book includes selected papers from the International Conference on Next Generation of Internet of Things ICNGIoT 2021 organized by the Department of Computer Science and Engineering School of Engineering GIET University Gunupur Odisha India during 5 6 February 2021 The book covers topics such as IoT network design and architecture IoT network virtualization IoT sensors privacy and security for IoT SMART environment social networks data science and data analytics cognitive intelligence and augmented intelligence and case studies and applications Journal of Information Science and Engineering ,2001 Parallel System Interconnections and Communications Miltos D. Grammatikakis,D. Frank Hsu,Miroslav Kraetzl,2018-10-08 This introduction to networking large scale parallel computer systems acts as a primary resource for a wide readership including network systems engineers electronics engineers systems designers computer scientists involved in systems design and implementation of parallel algorithms development graduate students in systems architecture design or engineering **Parallel Computing on Distributed Memory Multiprocessors** Füsün Özgüner,Fikret Ercal,2012-12-06 Advances in microelectronic technology have made massively parallel computing a reality and triggered an outburst of research activity in parallel processing architectures and algorithms Distributed memory multiprocessors parallel computers that consist of microprocessors connected in a regular topology are increasingly being used to solve large problems in many application areas In order to use these computers for a specific application existing algorithms need to be restructured for the architecture and new algorithms developed The performance of a computation on a distributed memory multiprocessor is affected by the node and communication architecture the interconnection network topology the I O subsystem and the parallel algorithm and communication protocols Each of these parameters is a complex problem and solutions require an understanding of the interactions among them This book is based on the papers presented at the NATO Advanced Study Institute held at Bilkent University Turkey in July 1991 The book is organized in five parts Parallel computing structures and communication Parallel numerical algorithms Parallel programming Fault tolerance and Applications and algorithms **Proceedings 20th International Conference Parallel Processing 1991** Tse-yun Feng,1991-07-30 Proceedings of the 1993 International Conference on Parallel Processing Alok N. Choudhary,P. Bruce Berra,1993-08-16 This three volume work presents a compendium of current and seminal papers on parallel distributed processing offered at the 22nd International Conference on Parallel Processing held August 16 20 1993 in Chicago Illinois Topics include processor architectures mapping algorithms to parallel systems performance evaluations fault diagnosis

recovery and tolerance cube networks portable software synchronization compilers hypercube computing and image processing and graphics Computer professionals in parallel processing distributed systems and software engineering will find this book essential to their complete computer reference library



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