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Editors

**Parallel  
Algorithms  
for Machine  
Intelligence  
and Vision**



Springer-Verlag

# Parallel Algorithms For Machine Intelligence And Vision

## Symbolic Computation

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## **Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation:**

**Parallel Algorithms for Machine Intelligence and Vision** Vipin Kumar, P.S. Gopalakrishnan, Laveen N.

Kanal, 2012-12-06 Recent research results in the area of parallel algorithms for problem solving search natural language parsing and computer vision are brought together in this book. The research reported demonstrates that substantial parallelism can be exploited in various machine intelligence and vision problems. The chapter authors are prominent researchers actively involved in the study of parallel algorithms for machine intelligence and vision. Extensive experimental studies are presented that will help the reader in assessing the usefulness of an approach to a specific problem. Intended for students and researchers actively involved in parallel algorithms design and in machine intelligence and vision this book will serve as a valuable reference work as well as an introduction to several research directions in these areas. Transputer Research and Applications 6 North American Transputer Users Group. Conference, 1993 Papers in this book report on a wide variety of multicomputer applications systems and architectures. They all have one aspect in common which is message passing multiprocessors. It includes research presentations of the T9000 TI C 40 and T8 i860 based multicomputers.

**Piecewise Regular Arrays** Thomas P. Plaks, 1999-02-22 Application specific regular array processors have been widely used in signal and image processing multimedia and communication systems for example in data compression and HDTV. One of the main problems of application specific computing is how to map algorithms into hardware. The major achievement of the theory of regular arrays is that an algorithm represented as a data dependence graph is embedded into a Euclidean space where the integer points are the elementary computations and the dependencies between computations are denoted by vectors between points. The process of mapping an algorithm into hardware is reduced to finding for the given Euclidean space a new coordinate system that can be associated with the physical properties of space and time so called space time. The power of the synthesis method is that it provides a bridge between abstract and physical representations of algorithms thus providing a methodological basis for synthesizing computations in space and in time. This book will extend the existing synthesis theory by exploiting the associativity and commutativity of computations. The practical upshot being a controlled increase in the dimensionality of the Euclidean space representing an algorithm. This increase delivers more degrees of freedom in the choice of the space time mapping and leads subsequently to more choice in the selection of cost effective application specific designs.

**Parallel Algorithms for Digital Image Processing, Computer Vision and Neural Networks** Ioannis Pitas, 1993-04-09 World renowned contributors present papers concerning algorithms used on the latest generation of parallel machines MIMD. Details key applications running the gamut from medical imaging visualization and remote sensing to HDTV demonstrating the large computational complexity necessary to perform these tasks.

**Scientific and Technical Aerospace Reports**, 1990 *Readings in Computer Vision* Martin A. Fischler, Oscar Firschein, 2014-06-28 The field of computer vision combines techniques from physics mathematics psychology artificial intelligence and computer

science to examine how machines might construct meaningful descriptions of their surrounding environment The editors of this volume prominent researchers and leaders of the SRI International AI Center Perception Group have selected sixty papers most published since 1980 with the viewpoint that computer vision is concerned with solving seven basic problems Reconstructing 3D scenes from 2D images Decomposing images into their component parts Recognizing and assigning labels to scene objects Deducing and describing relations among scene objects Determining the nature of computer architectures that can support the visual function Representing abstractions in the world of computer memory Matching stored descriptions to image representation Each chapter of this volume addresses one of these problems through an introductory discussion which identifies major ideas and summarizes approaches and through reprints of key research papers Two appendices on crucial assumptions in image interpretation and on parallel architectures for vision applications a glossary of technical terms and a comprehensive bibliography and index complete the volume      *Summary of Awards* ,1993      **The AI Magazine** ,1989      Parallel and Distributed Methods for Image Processing ,1998      **Parallel Computation** ,1999

*VLSI Algorithms and Architectures* N. Ranganathan,1993      *Peterson's Guide to Graduate Programs in Engineering and Applied Sciences* ,1991      **Parallel and Distributed Computing Handbook** Albert Y. Zomaya,1996 With over 1 000 pages and a wealth of illustrations and data tables this handbook offers readers the first information source with the scope to encompass the parallel and distributed computing revolution Written by an international team of experts the book summarizes the current state of the art interprets the most promising trends and spotlights commercial applications

**Subject Guide to Children's Books in Print 1997** Bowker Editorial Staff,R R Bowker Publishing,1996-09  
    **Proceedings** ,1994      **Artificial Intelligence Abstracts** ,1992      **Optical Computing 88** ,1989      **Mathematical Reviews** ,2005      GMD-Berichte ,1996      *Energy Research Abstracts* ,1990

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## **Table of Contents Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation**

1. Understanding the eBook Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - The Rise of Digital Reading Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Advantages of eBooks Over Traditional Books
2. Identifying Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - User-Friendly Interface

4. Exploring eBook Recommendations from Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Personalized Recommendations
  - Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation User Reviews and Ratings
  - Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation and Bestseller Lists
5. Accessing Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation Free and Paid eBooks
  - Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation Public Domain eBooks
  - Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation eBook Subscription Services
  - Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation Budget-Friendly Options
6. Navigating Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation eBook Formats
  - ePUB, PDF, MOBI, and More
  - Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation Compatibility with Devices
  - Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Highlighting and Note-Taking Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Interactive Elements Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
8. Staying Engaged with Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
9. Balancing eBooks and Physical Books Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time

11. Cultivating a Reading Routine Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Setting Reading Goals Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Fact-Checking eBook Content of Parallel Algorithms For Machine Intelligence And Vision Symbolic Computation
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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