

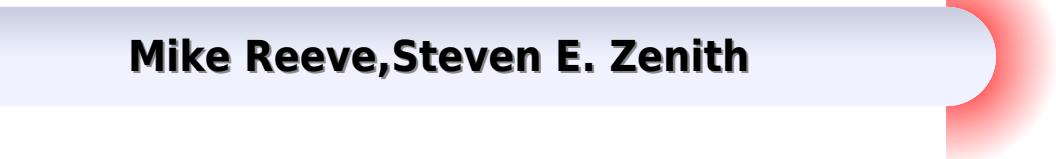
PARALLEL PROCESSING FOR ARTIFICIAL INTELLIGENCE 3

Edited by
J. Geller
H. Kitano
C.B. Sommer

North-Holland

Parallel Processing And Artificial Intelligence

Mike Reeve, Steven E. Zenith



Parallel Processing And Artificial Intelligence:

Parallel Processing for Artificial Intelligence 2 V. Kumar, H. Kitano, C.B. Suttner, 2014-06-28 With the increasing availability of parallel machines and the raising of interest in large scale and real world applications research on parallel processing for Artificial Intelligence AI is gaining greater importance in the computer science environment Many applications have been implemented and delivered but the field is still considered to be in its infancy This book assembles diverse aspects of research in the area providing an overview of the current state of technology It also aims to promote further growth across the discipline Contributions have been grouped according to their subject architectures 3 papers languages 4 papers general algorithms 6 papers and applications 5 papers The internationally sourced papers range from purely theoretical work simulation studies algorithm and architecture proposals to implemented systems and their experimental evaluation Since the book is a second volume in the parallel processing for AI series it provides a continued documentation of the research and advances made in the field The editors hope that it will inspire readers to investigate the possibilities for enhancing AI systems by parallel processing and to make new discoveries of their own 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

Parallel Processing and Artificial Intelligence Mike Reeve, Steven E. Zenith, **Parallel Computation and Computers for Artificial Intelligence** J.S. Kowalik, 2012-12-06 It has been widely recognized that artificial intelligence computations offer large potential for distributed and parallel processing Unfortunately not much is known about designing parallel AI algorithms and efficient easy to use parallel computer architectures for AI applications The field of parallel computation and computers for AI is in its infancy but some significant ideas have appeared and initial practical experience has become available The purpose of this book has been to collect in one volume contributions from several leading researchers and pioneers of AI that represent a sample of these ideas and experiences This sample does not include all schools of thought nor contributions from all leading researchers but it covers a relatively wide variety of views and topics and in this sense can be helpful in assessing the state of the art We hope that the book will serve at least as a pointer to more specialized literature and that it will stimulate interest in the area of parallel AI processing It has been a great pleasure and a privilege to cooperate with all contributors to this volume They have my warmest thanks and gratitude Mrs Birgitta Knapp has assisted me in the editorial task and demonstrated a great deal of skill and patience Janusz S Kowalik vii INTRODUCTION Artificial intelligence AI computer programs can be very time consuming *Parallel Processing for Artificial Intelligence* 3 J. Geller, H. Kitano, C.B. Suttner, 1997-02-10 The third in an informal series of books about parallel processing for Artificial Intelligence this volume is based on the assumption that the computational demands of many AI tasks can be better served by parallel architectures than by the currently popular workstations However no assumption is made about the kind of parallelism to be used Transputers Connection Machines farms of workstations Cellular Neural Networks Crays and other hardware paradigms of parallelism are used by the authors of this collection The papers arise from the areas of parallel knowledge representation neural modeling parallel non monotonic reasoning search and partitioning constraint satisfaction theorem proving parallel decision trees parallel programming languages and low level computer vision The final paper is an experience report about applications of massive parallelism which can be said to capture the spirit of a whole period of computing history This volume provides the reader with a snapshot of the state of the art in Parallel Processing for Artificial Intelligence **Parallel Processing for Artificial Intelligence** Laveen N. Kanal, 1994 **Parallel Processing for Artificial Intelligence** V. Kumar, 1985 *Parallel and High-Performance Computing in Artificial Intelligence* Mukesh Raghuwanshi, Pradnya Borkar, Rutvij H. Jhaveri, Roshani Raut, 2025-05-20 Parallel and High Performance Computing in Artificial Intelligence explores high performance architectures for data intensive applications as well as efficient analytical strategies to speed up data processing and applications in automation machine learning deep learning healthcare

bioinformatics natural language processing NLP and vision intelligence The book's two major themes are high performance computing HPC architecture and techniques and their application in artificial intelligence Highlights include HPC use cases application programming interfaces APIs and applications Parallelization techniques HPC for machine learning Implementation of parallel computing with AI in big data analytics HPC with AI in healthcare systems AI in industrial automation Coverage of HPC architecture and techniques includes multicore architectures parallel computing techniques and APIs as well as dependence analysis for parallel computing The book also covers hardware acceleration techniques including those for GPU acceleration to power big data systems As AI is increasingly being integrated into HPC applications the book explores emerging and practical applications in such domains as healthcare agriculture bioinformatics and industrial automation It illustrates technologies and methodologies to boost the velocity and scale of AI analysis for fast discovery Data scientists and researchers can benefit from the book's discussion on AI based HPC applications that can process higher volumes of data provide more realistic simulations and guide more accurate predictions The book also focuses on deep learning and edge computing methodologies with HPC and presents recent research on methodologies and applications of HPC in AI

Parallel Processing in Neural Systems and Computers Rolf Eckmiller, Georg Hartmann, Gert Hauske, 1990 The 119 contributions in this book cover a range of topics including parallel computing parallel processing in biological neural systems simulators for artificial neural networks neural networks for visual and auditory pattern recognition as well as for motor control AI and examples of optical and molecular computing The book may be regarded as a state of the art report and at the same time as an Interdisciplinary Reference Source for parallel processing It should catalyze international and interdisciplinary cooperation among computer scientists neuroscientists physicists and engineers in the attempt to 1 decipher parallel information processes in biology physics and chemistry 2 design conceptually similar technical parallel information processors

Parallel Processing for Supercomputers and Artificial Intelligence, 1989 **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

Parallel Processing for Artificial Intelligence Laveen N. Kanal, 1994 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

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 *IJCAI-97 International Joint Conferences on Artificial Intelligence*,1997 Vlsi And Parallel Computing For Pattern Recognition And Artificial Intelligence N Ranganathan,1995-06-30 This book covers parallel algorithms and architectures and VLSI chips for a range of problems in image processing computer vision pattern recognition and artificial intelligence The specific problems addressed include vision and image processing tasks Fast Fourier Transforms Hough Transforms Discrete Cosine Transforms image compression polygon matching template matching pattern matching fuzzy expert systems and image rotation The collection of papers gives the reader a good introduction to the state of the art while for an expert this serves as a good reference and a source of some new contributions in this field **Proceedings of the Ninth International Joint Conference on Artificial Intelligence** International Joint Conferences on Artificial Intelligence,1985 **Distributed Computing and Artificial Intelligence** Sigeru Omatu,José Neves,Juan M. Corchado Rodriguez,Juan F Paz Santana,Sara Rodríguez Gonzalez,2013-06-25 The International Symposium on Distributed Computing and Artificial Intelligence 2013 DCAI 2013 is a forum in which applications of innovative techniques for solving complex problems are presented Artificial intelligence is changing our society Its application in distributed environments such as the internet electronic commerce environment monitoring mobile communications wireless devices distributed computing to mention only a few is continuously increasing becoming an element of high added value with social and economic potential in industry quality of life and research This conference is a stimulating and productive forum where the scientific community can work towards future cooperation in Distributed Computing and Artificial Intelligence areas These technologies are changing constantly as a result of the large research and technical effort being undertaken in both universities and businesses The exchange of ideas between scientists and technicians from both the academic and industry sector is essential to facilitate the development of systems that can meet the ever increasing demands of today's society This edition of DCAI brings together past experience current work and promising future trends associated with distributed computing artificial intelligence and their application in order to provide efficient solutions to real problems This symposium is organized by the Bioinformatics Intelligent System and Educational Technology Research Group <http://bisite.usal.es> of the University of Salamanca The present edition was held in Salamanca Spain from 22nd to 24th May 2013 *INTRODUCTION TO PARALLEL PROCESSING* M. Sasikumar,Dinesh Shikhare,Ravi P. Prakash,2014-09-02 Written with a straightforward and student centred approach this extensively revised updated and enlarged edition presents a thorough coverage of the various aspects of parallel processing including parallel processing architectures programmability issues data dependency analysis shared memory programming thread based implementation distributed computing algorithms parallel programming languages debugging parallelism paradigms distributed databases as

well as distributed operating systems The book now in its second edition not only provides sufficient practical exposure to the programming issues but also enables its readers to make realistic attempts at writing parallel programs using easily available software tools With all the latest information incorporated and several key pedagogical attributes included this textbook is an invaluable learning tool for the undergraduate and postgraduate students of computer science and engineering It also caters to the students pursuing master of computer application What's New to the Second Edition A new chapter named Using Parallelism Effectively has been added covering a case study of parallelising a sorting program and introducing commonly used parallelism models Sections describing the map reduce model top 500 org initiative Indian efforts in supercomputing OpenMP system for shared memory programming etc have been added Numerous sections have been updated with current information Several questions have been incorporated in the chapter end exercises to guide students from examination and practice points of view

Parallel Evolution of Parallel Processors G. Lerman, L. Rudolph, 2013-03-07 Study the past if you would divine the future CONFUCIUS A well written organized and concise survey is an important tool in any newly emerging field of study This present text is the first of a new series that has been established to promote the publications of such survey books A survey serves several needs Virtually every new research area has its roots in several diverse areas and many of the initial fundamental results are dispersed across a wide range of journals books and conferences in many different sub fields A good survey should bring together these results But just a collection of articles is not enough Since terminology and notation take many years to become standardized it is often difficult to master the early papers In addition when a new research field has its foundations outside of computer science all the papers may be difficult to read Each field has its own view of elegance and its own method of presenting results A good survey overcomes such difficulties by presenting results in a notation and terminology that is familiar to most computer scientists A good survey can give a feel for the whole field It helps identify trends both successful and unsuccessful and it should point new researchers in the right direction

VLSI for Artificial Intelligence and Neural Networks Jose G. Delgado-Frias, W.R. Moore, 2012-12-06 This book is an edited selection of the papers presented at the International Workshop on VLSI for Artificial Intelligence and Neural Networks which was held at the University of Oxford in September 1990 Our thanks go to all the contributors and especially to the programme committee for all their hard work Thanks are also due to the ACM SIGARCH the IEEE Computer Society and the IEE for publicizing the event and to the University of Oxford and SUNY Binghamton for their active support We are particularly grateful to Anna Morris Maureen Doherty and Laura Duffy for coping with the administrative problems Jose Delgado Frias Will Moore April 1991 vii PROLOGUE Artificial intelligence and neural network algorithms computing have increased in complexity as well as in the number of applications This in turn has posed a tremendous need for a larger computational power than can be provided by conventional scalar processors which are oriented towards numeric and data manipulations Due to the artificial intelligence requirements symbolic manipulation knowledge representation non

deterministic computations and dynamic resource allocation and neural network computing approach non programming and learning a different set of constraints and demands are imposed on the computer architectures for these applications

Unveiling the Magic of Words: A Report on "**Parallel Processing And Artificial Intelligence**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Parallel Processing And Artificial Intelligence**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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Table of Contents Parallel Processing And Artificial Intelligence

1. Understanding the eBook Parallel Processing And Artificial Intelligence
 - The Rise of Digital Reading Parallel Processing And Artificial Intelligence
 - Advantages of eBooks Over Traditional Books
2. Identifying Parallel Processing And Artificial Intelligence
 - 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 Processing And Artificial Intelligence
 - User-Friendly Interface
4. Exploring eBook Recommendations from Parallel Processing And Artificial Intelligence
 - Personalized Recommendations
 - Parallel Processing And Artificial Intelligence User Reviews and Ratings
 - Parallel Processing And Artificial Intelligence and Bestseller Lists

5. Accessing Parallel Processing And Artificial Intelligence Free and Paid eBooks
 - Parallel Processing And Artificial Intelligence Public Domain eBooks
 - Parallel Processing And Artificial Intelligence eBook Subscription Services
 - Parallel Processing And Artificial Intelligence Budget-Friendly Options
6. Navigating Parallel Processing And Artificial Intelligence eBook Formats
 - ePub, PDF, MOBI, and More
 - Parallel Processing And Artificial Intelligence Compatibility with Devices
 - Parallel Processing And Artificial Intelligence Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Parallel Processing And Artificial Intelligence
 - Highlighting and Note-Taking Parallel Processing And Artificial Intelligence
 - Interactive Elements Parallel Processing And Artificial Intelligence
8. Staying Engaged with Parallel Processing And Artificial Intelligence
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Parallel Processing And Artificial Intelligence
9. Balancing eBooks and Physical Books Parallel Processing And Artificial Intelligence
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Parallel Processing And Artificial Intelligence
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Parallel Processing And Artificial Intelligence
 - Setting Reading Goals Parallel Processing And Artificial Intelligence
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Parallel Processing And Artificial Intelligence
 - Fact-Checking eBook Content of Parallel Processing And Artificial Intelligence
 - 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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