

Artificial Intelligence

Franz Kurfeß

Parallelism in Logic

**Its Potential for Performance
and Program Development**



Parallelism In Logic Its Potential For Performance And Program Development

J.A. De La Puente, L. Boullart



Parallelism In Logic Its Potential For Performance And Program Development:

Parallelism in Logic ,1991-06-01 The potential of parallelism in logic reaches far beyond the exploitation of AND and OR parallelism usually found in attempts to parallelize PROLOG This book discusses parallelism in logic and its exploitation on parallel architectures A variety of categories of parallelism is discussed with respect to different levels of a logical formula and different ways to evaluate it As an outcome of these investigations it is shown that modularity allows structuring of logic programs and meta evaluation can be used to control the evaluation process on a parallel system This combination yields a consistent programming framework with a wide scope Finally the suitability of a specific evaluation mechanism for parallel architectures is investigated

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

Automated Theorem Proving in Software Engineering Johann M. Schumann,2013-06-29 Growing demands for the quality safety and security of software can only be

satisfied by the rigorous application of formal methods during software design This book methodically investigates the potential of first order logic automated theorem provers for applications in software engineering Illustrated by complete case studies on protocol verification verification of security protocols and logic based software reuse this book provides techniques for assessing the prover s capabilities and for selecting and developing an appropriate interface architecture

Parallelization in Inference Systems Bertram Fronhöfer,Graham Wrightson,1992-04-22 This volume contains the proceedings of an international workshop on parallelism in inference systems held in Germany in December 1990 The topic of the workshop is still rather young and several papers in the book are overview articles intended to provide a first orientation toward some of the more intensively investigated subtopics The main part of the book is a compilation of research papers on parallelization in special domains of inference such as rewriting automatic reasoning logic programming and connectionist inference Appended to the book is a collection of short project summaries received in response to a worldwide email call The book is intended primarily for researchers working on inference systems who are interested in parallelizing their systems

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 Computing on Heterogeneous Networks Alexey L. Lastovetsky, 2008-05-02 New approaches to parallel computing are being developed that make better use of the heterogeneous cluster architecture Provides a detailed introduction to parallel computing on heterogeneous clusters All concepts and algorithms are illustrated with working programs that can be compiled and executed on any cluster The algorithms discussed have practical applications in a range of real life parallel computing problems such as the N body problem portfolio management and the modeling of oil extraction **Scientific and Technical Aerospace Reports** ,1994 **Programming Multicore and Many-core Computing Systems** Sabri Pllana, Fatos Xhafa, 2017-01-23 Programming multi core and many core computing systems Sabri Pllana Linnaeus University Sweden Fatos Xhafa Technical University of Catalonia Spain Provides state of the art methods for programming multi core and many core systems The book comprises a selection of twenty two chapters covering fundamental techniques and algorithms programming approaches methodologies and frameworks scheduling and management testing and evaluation methodologies and case studies for programming multi core and many core systems Program development for multi core processors especially for heterogeneous multi core processors is significantly more complex than for single core processors However programmers have been traditionally trained for the development of sequential programs and only a small percentage of them have experience with parallel programming In the past only a relatively small group of programmers interested in High Performance Computing HPC was concerned with the parallel programming issues but the situation has changed dramatically with the appearance of multi core processors on commonly used computing systems It is expected that with the pervasiveness of multi core processors parallel programming will become mainstream The pervasiveness of multi core processors affects a large spectrum of systems from embedded and general purpose to high end computing systems This book assists programmers in mastering the efficient programming of multi core systems which is of paramount importance for the software intensive industry towards a more effective product development cycle Key features Lessons challenges and roadmaps ahead Contains real world examples and case studies Helps programmers in mastering the efficient programming of multi core and many core systems The book serves as a reference for a larger audience of practitioners young researchers and graduate level students A basic level of programming knowledge is required to use this book **Applied Mechanics Reviews** ,1997 *Practical Aspects of Declarative Languages* Marco Gavanelli, John Reppy, 2016-01-08 This book constitutes the refereed proceedings of the 18th International Symposium on Practical Aspects of Declarative Languages PADL 2016 held in St Petersburg FL USA in January 2016 The 11 revised papers presented were carefully reviewed and selected from 17 initial submissions for inclusion in the book PADL is a forum for researchers and practitioners to present original work emphasizing novel applications and implementation techniques for all forms of declarative concepts including functional logic

constraints etc **Technologies Changing Our World** Christian Werner Loesch,2020-08-19 This book is a venture that as far as we know has never been tried before It is a more than a two decennial overview of the evolution status and future of Information and Communication Technologies ICT transgressing from technology to economy sociology and its way of changing our life and of developments which might affect our future personally and as society The individual papers were delivered as invited keynote lectures at the the annual IDIMT Conferences see [www IDIMT org](http://www.IDIMT.org) from 2000 to 2020 These lectures were designed to satisfy the interested non technical audience as well as the knowledgeable ICT audience bridging this gap successfully without compromising on the scientific depth It offers an opportunity to analyze evolution status challenges and expectations over this dramatic period Additionally the multidiscipline approach offers an unbiased view on the successes and failures in technological economic and other developments as well as on the astonishing high quality of technological forecasts Seldom has a single technology been the driving force for such dramatic developments looking at the intertwined developments as the computer becoming a network and the network becoming a social network and is even changing the way the world changes Economically documents emphasize the fact that the three top value companies in the world are ICT companies Many deep impact innovations made in this periods are reviewed with information technology enabling advances from decoding the genome to the Internet Artificial Intelligence Big Data Deep computing Robotics to Communication technology to mention a few The impact literally reaches from on the bottom of the sea from fiber optics cables communications up to satellites turning the world into a global village and continue to do so Discussing the scenario of the last 25 years we have the privilege to discuss this in the presence of eye witnesses and even of contributors to these developments to which these personalities contributed and enabled these lectures Special appreciation for their engagement and many valuable discussions goes in parts pro toto to Prof Gerhard Chroust and Prof Petr Doucek and their teams

Euro-Par 2004 Parallel Processing Marco Danelutto,Domenico Laforenza,Marco Vanneschi,2004-08-19 This book constitutes the refereed proceedings of the 10th International Conference on Parallel Computing Euro Par 2004 held in Pisa Italy in August September 2004 The 122 revised papers presented together with 3 invited papers were carefully reviewed and selected from 352 submissions The papers are organized in topical sections on support tools and environments performance evaluation scheduling and load balancing compilers and high performance parallel and distributed databases grid and cluster computing applications on high performance clusters parallel computer architecture and ILP distributed systems and algorithms parallel programming numerical algorithms high performance multimedia theory and algorithms for parallel computing routing and communication in interconnection networks mobile computing integrated problem solving environments high performance bioinformatics and peer to peer and Web computing **Real-Time Programming 1992** J.A. De La Puente,L. Boullart,2017-02-21 The 47 papers in this volume provide a useful reference tool for the state of the art research in real time programming *Emerging Research Directions in Computer Science* Victor Pankratius,2014-10-16

Languages and Compilers for Parallel Computing Lawrence Rauchwerger, 2004-05-13 This book constitutes the thoroughly refereed post proceedings of the 16th International Workshop on Languages and Compilers for Parallel Computing LCPC 2003 held in College Station Texas USA in October 2003 The 35 revised full papers presented were selected from 48 submissions during two rounds of reviewing and improvement upon presentation at the workshop The papers are organized in topical sections on adaptive optimization data locality parallel languages high level transformations embedded systems distributed systems software low level transformations compiling for novel architectures and optimization infrastructure

Summary of Awards National Science Foundation (U.S.). Computer Science Section, 1988

Computing with T.Node Parallel Architecture D. Heidrich, J.C. Grossetie, 2012-12-06 Parallel processing is seen today as the means to improve the power of computing facilities by breaking the Von Neumann bottleneck of conventional sequential computer architectures By defining appropriate parallel computation models definite advantages can be obtained Parallel processing is the center of the research in Europe in the field of Information Processing Systems so the CEC has funded the ESPRIT Supemode project to develop a low cost high performance multiprocessor machine The result of this project is a modular reconfigurable architecture based on NMOS transputers T Node This machine can be considered as a research industrial and commercial success The CEC has decided to continue to encourage manufacturers as well as research and end users of transputers by funding other projects in this field This book presents course papers of the Eurocourse given at the Joint Research Centre in ISPRa Italy from the 4th to 8 of November 1991 First we present an overview of various trends in the design of parallel architectures and specially of the T Node with its software development environments new distributed system aspects and also new hardware extensions based on the NMOS T9000 processor In a second part we review some real case applications in the field of image synthesis image processing signal processing terrain modeling particle physics simulation and also enhanced parallel and distributed numerical methods on T Node

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 Systems*

David J. Evans, 1982-06-03 A coherent and comprehensive account of all major aspects of parallel processing Back cover

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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