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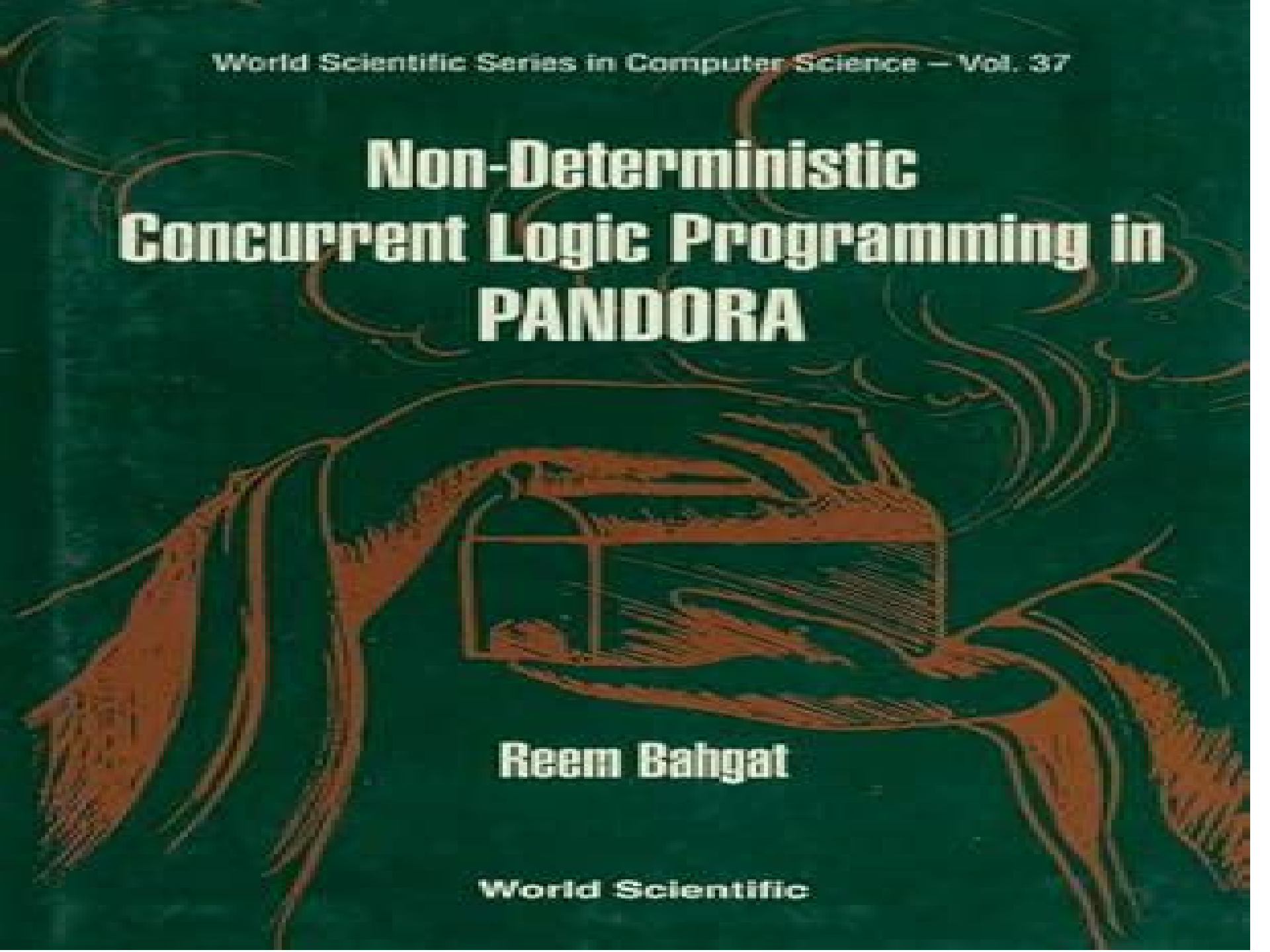
Non-Deterministic Concurrent Logic Programming in PANDORA



Reem Bahgat

World Scientific

Nondeterministic Concurrent Logic Programming In Pandora

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Nondeterministic Concurrent Logic Programming In Pandora:

Non-deterministic Concurrent Logic Programming in Pandora Reem Bahgat,1993 This monograph is the first comprehensive study of the design application and implementation of Pandora a new parallel logic programming language Pandora combines stream and parallelism with don t know non determinism in a unified and efficient manner As a result it provides a programming paradigm of non deterministic concurrent communicating processes which opens up interesting application areas that cannot conveniently be expressed in existing logic programming languages The author describes the use of Pandora for constraint programming solving resource allocation problems heuristic search and distributed discrete event simulation The final chapters describe in detail the implementation of Pandora on single as well as multi processor architectures The volume is aimed at the community of logic programming students and professionals as well as researchers and professionals in artificial intelligence It will also be of great interest to researchers in programming language design and parallel processing *Non-deterministic Concurrent Logic Programming In Pandora* Reem Bahgat,1993-05-20 This monograph is the first comprehensive study of the design application and implementation of Pandora a new parallel logic programming language Pandora combines stream and parallelism with don t know non determinism in a unified and efficient manner As a result it provides a programming paradigm of non deterministic concurrent communicating processes which opens up interesting application areas that cannot conveniently be expressed in existing logic programming languages The author describes the use of Pandora for constraint programming solving resource allocation problems heuristic search and distributed discrete event simulation The final chapters describe in detail the implementation of Pandora on single as well as multi processor architectures The volume is aimed at the community of logic programming students and professionals as well as researchers and professionals in artificial intelligence It will also be of great interest to researchers in programming language design and parallel processing *Symbols Versus Neurons?* Joachim Stender,Tom Addis,1990 Distributed Constraint Logic Programming Ho-Fung Leung,1993 This book presents the first attempt to combine concurrent logic programming and constraint logic programing It is divided into three parts In the first part a novel computation model called the multi Pandora model which is designed on the basis of the Pandora model is presented In the second part the distributed implementation schemes for Parlog Pandora and multi Pandora are presented Finally the author presents the distributed constraint solvers for finite domain constraints as well as the distributed constraint solvers in the domains of real numbers and Boolean rings which can be incorporated into the schemes presented in the second part to handle the ask and tell constraints *Parallel Symbolic Computation Pasco '94 - Proceedings Of The First International Symposium* Hoon Hong,1994-09-17 These proceedings are devoted to communicating significant developments in all areas pertinent to Parallel Symbolic Computation The scope includes algorithms languages software systems and application in any area of parallel symbolic computation where parallelism is interpreted broadly to include concurrent distributive cooperative schemes and so

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devoted to its applications in other fields e g language analysis software engineering computer aided instruction etc which were done in China **Cooperation In Industrial Muti-agent Systems** Nicholas R Jennings,1994-03-07 Distributed Artificial Intelligence DAI is a vibrant sub field of Artificial Intelligence concerned with coordinating the knowledge and actions of multiple interacting agents Although DAI has the potential to overcome many of the problems currently associated with constructing software systems which are large complex and knowledge rich there have as yet been relatively few attempts to apply it to real world applications To help pave the way for such future developments this book recounts the insights gained and the breakthroughs made whilst building multiple agent systems in the domains of electricity transportation management and control of a particle accelerator These experiences cover the complete development lifecycle of multi agent systems for industrial applications ranging from the initial design through the implementation to the testing and evaluation phases The book s other main features are that it provides a thorough and up to date explanation of the foundation concepts of DAI describes a new paradigm for building multi agent systems which uses the concept of reusable cooperation knowledge and develops a new model of cooperation based on the notion of joint intentions *Computer Vision* Anup Basu,Xiaobo Li,1993 This book contains a selection of papers which were presented at the Vision Interface 92 Conference It also includes several invited articles from prominent researchers in the field suggesting future directions in Computer Vision **Advanced Visual Interfaces - Proceedings Of The International Workshop Avi '92** Stefano Levialdi,Maria Francesca Costabile,Tiziana Catarci,1992-12-23 This volume brings together papers by experts in different areas of computer science who have a common interest in the design and management of visual interfaces Since cognitive science and metaphor analysis prove useful for understanding the basic mechanisms which allow visual interfaces to be easy to learn and use these topics are also featured Other areas focused on are visual languages visual database systems intelligent agents for system interaction graphical and pictorial communication tools multimedia environments and specific technological developments *Intelligent Systems* E. A. Yfantis,1995 The two volumes of the proceedings of the GWIC 94 conference include state of the art research in the areas of neural networks artificial intelligence intelligent databases image processing and algorithms with application to artificial intelligence New methods for training feedforward neural networks that accelerate the convergence and verify the training are included State of the art adaptive back propagation neural network algorithms based on selective retraining of patterns through error analysis and dynamic adaptation are described Development of intelligent databases for effective use of information formal specifications and design language for building large intelligent database applications is presented State of the art machine learning expert systems for intelligent tutoring are also included Finally intelligent image processing and computer graphics algorithms with applications to medicine geographic information systems and representation of natural phenomena are described This text is the first volume in a set of two **Meta-Programming in Logic** Alberto Pettorossi,1992 This volume contains lectures and papers delivered at

Meta 92 the Third International Workshop on Metaprogramming in Logic held in Uppsala Sweden June 1992 The topics covered include foundations of metaprogramming in logic proposals for metaprogramming languages techniques for knowledgerepresentation and belief systems and program transformation and analysis in logic Particular topics include belief revision systems intensionaldeduction belief systems and metaprogramming principles of partial deduction termination in logic programs semantics of the vanilla metainterpreter a complete resolution method for metaprogramming semanticsof demo hierarchical metalogics the naming relation in metalevel systems modules reflective agents compiler optimizations metalogic and object oriented facilities parallel logic languages the use of metaprogramming for legal reasoning representing objects and inheritance transformation of normal programs negation in automatically generated logic programs reordering of literals in deductive databases abstract interpretations and interarguments in constraint logic programs PUBLISHER S WEBSITE **Logic Programming** Maurice Bruynooghe,1994 November 13 17 1994 Ithaca New York The 1994 International Logic Programming Symposium is one of two major international conferences sponsored by the Association of Logic Programming It is held annually in North America Theses tutorials invited lectures and refereed papers cover all aspects of logic programming including constraints concurrency and parallelism deductive databases implementations and architectures metaprogramming and higher order programming proof theory and semantic analysis Logic Programming series Research Reports and Notes The Egyptian Computer Journal ,1995 Programming Language Implementation and Logic Programming Jan Małuszyński,Martin Wirsing,1991-08-14 This volume contains the papers which have been accepted for presentation atthe Third International Symposium on Programming Language Implementation andLogic Programming PLILP 91 held in Passau Germany August 26 28 1991 The aim of the symposium was to explore new declarative concepts methods and techniques relevant for the implementation of all kinds of programming languages whether algorithmic or declarative ones The intention was to gather researchers from the fields of algorithmic programming languages as well as logic functional and object oriented programming This volume contains the two invited talks given at the symposium by H Ait Kaci and D B MacQueen 32 selected papers and abstracts of several system demonstrations The proceedings of PLILP 88 and PLILP 90 are available as Lecture Notes in Computer Science Volumes 348 and 456

Conclog: A Methodological Approach to Concurrent Logic Programming Jean-Marie Jacquet,1991-11-27 This book presents a new concurrent logic programming language called Conclog and a methodology for programming in it Conclog was designed bytaking the ideal features of logic programming as reference rather than by concentrating directly on operational tricks to ensure efficiency This leads to quite easy declarative programming Concern for soundness and completeness ensures that multi directional and multi solution correct procedures can be coded quite straightforwardly Assuming suitable hypotheses on their uses they can be transformed into very efficient versions thanks to the introduction of appropriate control information Correctness preserving properties are given for that purpose The designof Conclog involves

three steps First a sound and complete parallel execution model of Horn clause programs is proposed which reduces subgoals of conjunctions independently and uses a calculus for reconciling inconsistent bindings Second this is extended to handle negation as completely as possible Third a minimal and reasonably complete set of extra logical features are defined for optimization and practical purposes The second part of the book presents a methodology for constructing Conclog in a rigorous way This covers the entire programming process from informal specifications via logic descriptions to efficient programs The methodology can be adapted to other languages

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