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Non-Deterministic Concurrent Logic Programming in PANDORA

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World Scientific

Nondeterministic Concurrent Logic Programming In Pandora

Patrick Vollmar



Nondeterministic Concurrent Logic Programming In Pandora:

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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 *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 forth *Distributed Constraint Logic Programming* Ho-Fung Leung, 1993 This book presents the first attempt to combine concurrent logic programming and constraint logic programming 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 Execution of Logic Programs* Anthony Beaumont, 1991-12-11 Logic programming refers to execution of programs written in Horn logic Among the advantages of this style of programming are its simple declarative and procedural semantics high expressive power and inherent nondeterminism The papers included in this volume were presented at the Workshop on Parallel Logic Programming held in Paris on June 24 1991 as part of the 8th International Conference on Logic Programming The papers represent the state of the art in parallel logic programming and report the current research in this area including many new results The three essential issues in parallel execution of logic programs which the papers address are Which forms of parallelism or parallelism and parallelism stream parallelism data parallelism etc will be exploited Will parallelism be explicitly programmed by programmers or will it be exploited implicitly without their help Which target parallel architecture will the logic programs run on **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 **The Egyptian Computer Journal** ,1995 **Logic Programming** Kōichi Furukawa,1991 June 25 28 1991 Paris France Topics covered Theory and Foundations Applications Implementation Machines and Architectures Parallel Execution Programming Methodology and Tools Logical Languages for Parallelism Relations with Software Engineering Relations with Deductive Databases Relations with Artificial Intelligence Extensions Constraints **Whitaker's Books in Print** ,1998 **Applied Computing** ,1994 **Parallel Logic Programming** Akikazu Takeuchi,1992-11-20 Uses a single coherent discussion to introduce the concept of parallel logic programming its languages procedural programming and debugging capabilities Also contains an implementation program and related code of a parallel logic computational model and related explanation Numerous illustrative examples help clarify what is new and essential in PLP

Forthcoming Books Rose Arny,1993 **Concurrency** Akinori Yonezawa,Takayasu Itō,1991 This volume is a collection of papers on topics focused around concurrency based on research work presented at the UK Japan Workshop held at Wadham College Oxford September 25 27 1989 The volume is organized into four parts Papers on theoretical aspects of concurrency which reflect strong research activities in the UK including theories on CCS and temporal logic RDL Papers on object orientation and concurrent languages which reflect major research activities on concurrency in Japan The languages presented include extensions of C Prolog and Lisp as well as object based concurrent languages Papers on parallel architectures and VLSI logic including a rewrite rule machine a graph rewriting machine and a dataflow architecture An overview of the workshop including the abstracts of the talks and the list of participants The appendix gives a brief report of the first UK Japan Workshop in Computer Science held at Sendai Japan July 6 9 1987 PUBLISHER S WEBSITE

International Books in Print ,1986 **Programming Language Implementation and Logic Programming** ,1991 Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards ,1994

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