

SYMBOLIC COMPUTATION

J.W. Lloyd

Foundations of

Logic Programming



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Foundations Of Logic Programming Symbolic Computation

Jan Maluszynski



Foundations Of Logic Programming Symbolic Computation:

Foundations of Logic Programming John Wylie Lloyd,1981 *Foundations of Logic Programming* John W.

Lloyd,2012-12-06 In the two and a half years since the first edition of this book was published the field of logic programming has grown rapidly Consequently it seemed advisable to try to expand the subject matter covered in the first edition The new material in the second edition has a strong database flavour which reflects my own research interests over the last three years However despite the fact that the second edition has about 70% more material than the first edition many worthwhile topics are still missing I can only plead that the field is now too big to expect one author to cover everything In the second edition I discuss a larger class of programs than that discussed in the first edition Related to this I have also taken the opportunity to try to improve some of the earlier terminology Firstly I introduce program statements which are formulas of the form $A \rightarrow W$ where the head A is an atom and the body W is an arbitrary formula A program is a finite set of program statements There are various restrictions of this class Normal programs are ones where the body of each program statement is a conjunction of literals The terminology generally used in the first edition is obviously now inappropriate Foundations of Deductive Databases and Logic Programming Jack Minker,2014-05-12 Foundations of Deductive Databases and Logic Programming focuses on the foundational issues concerning deductive databases and logic programming The selection first elaborates on negation in logic programming and towards a theory of declarative knowledge Discussions focus on model theory of stratified programs fixed point theory of nonmonotonic operators stratified programs semantics for negation in terms of special classes of models relation between closed world assumption and the completed database negation as a failure and closed world assumption The book then takes a look at negation as failure using tight derivations for general logic programs declarative semantics of logic programs with negation and declarative semantics of deductive databases and logic programs The publication tackles converting AND control to OR control by program transformation optimizing dialog equivalences of logic programs unification and logic programming and parallel complexity Topics include parallelism and structured and unstructured data parallel algorithms and complexity solving equations most general unifiers systems of equations and inequations equivalences of logic programs and optimizing recursive programs The selection is a valuable source of data for researchers interested in pursuing further studies on the foundations of deductive databases and logic programming Logic Programming Jan Maluszynski,1997-10-10 The themes of the 1997 conference are new theoretical and practical accomplishments in logic programming new research directions where ideas originating from logic programming can play a fundamental role and relations between logic programming and other fields of computer science The annual International Logic Programming Symposium traditionally held in North America is one of the main international conferences sponsored by the Association of Logic Programming The themes of the 1997 conference are new theoretical and practical accomplishments in logic programming new research directions where ideas originating from logic programming

can play a fundamental role and relations between logic programming and other fields of computer science Topics include theoretical foundations constraints concurrency and parallelism deductive databases language design and implementation nonmonotonic reasoning and logic programming and the Internet Foundations for Logic Programming J. W. Lloyd, 1984

Program Development in Computational Logic Maurice Bruynooghe, Kung-Kiu Lau, 2004-06-17 1 The tenth anniversary of the LOPSTR symposium provided the incentive for this volume LOPSTR started in 1991 as a workshop on logic program synthesis and transformation but later it broadened its scope to logic based program development in general that is program development in computational logic and hence the title of this volume The motivating force behind LOPSTR has been the belief that declarative paradigms such as logic programming are better suited to program development tasks than traditional non declarative ones such as the imperative paradigm Specification synthesis transformation or specialization analysis debugging and verification can all be given logical foundations thus providing a unifying framework for the whole development process In the past 10 years or so such a theoretical framework has indeed begun to emerge Even tools have been implemented for analysis verification and specialization However

it is fair to say that so far the focus has largely been on programming in the small So the future challenge is to apply or extend these techniques to programming in the large in order to tackle software engineering in the real world Returning to this volume our aim is to present a collection of papers that reflect significant research efforts over the past 10 years These papers cover the whole development process specification synthesis analysis transformation and specialization as well as semantics and systems Algebraic and Logic Programming Giorgio Levi, Mario Rodriguez-Artalejo, 1994-08-24 This volume constitutes the proceedings of the Fourth International Conference on Algebraic and Logic Programming ALP 94 held in Madrid Spain in September 1994 Like the predecessor conferences in this series ALP 94 succeeded in strengthening the cross fertilization between algebraic techniques and logic programming Besides abstracts of three invited talks the volume contains 17 full revised papers selected from 41 submissions the papers are organized into sections on theorem proving narrowing logic programming term rewriting and higher order programming **Design and Implementation of Symbolic Computation Systems** Alfonso Miola, 1990-03-26 The growing importance of the systems for symbolic computation has greatly influenced the decision of organizing DISCO 90 which is short for International Symposium on Design and Implementation of Symbolic Computation Systems DISCO 90 focuses mainly on the most innovative methodological and technological aspects of hardware and software system design and implementation for Symbolic and Algebraic Computation Automated Reasoning Software Environments Languages and User Interfaces and Automatic Programming In particular it includes papers on the design and the development of significant running systems The general objective of DISCO 90 is to present an up to date view of the field while encouraging the scientific exchange among academic industrial and user communities of the development of systems for symbolic computation **ICDT '88** M. Gyssens (Marc), Jan Paredaens, D. Van Gucht (Dirk), 1988

This volume is the proceedings of the second International Conference on Database Theory ICDT held in Bruges Belgium August 31 September 2 1988 ICDT intends to provide a European forum for the international research community working on theoretical issues related to database and knowledge base systems The proceedings of this conference contain all invited and accepted papers which represent the latest results obtained in ongoing research in database theory worldwide Most major themes of research in database theory are covered in ICDT 88 the relational model logic and databases object oriented databases deductive databases conceptual models analysis and design of data structures query languages concurrency control and updates and transactions *Computational Logic: Logic Programming and Beyond* A.C. Kakas,F.

Sadri,2003-08-02 Alan Robinson This set of essays pays tribute to Bob Kowalski on his 60th birthday an anniversary which gives his friends and colleagues an excuse to celebrate his career as an original thinker a charismatic communicator and a forceful intellectual leader The logic programming community hereby and herein conveys its respect and thanks to him for his pivotal role in creating and fostering the conceptual paradigm which is its raison d tre The diversity of interests covered here reflects the variety of Bob s concerns Read on It is an intellectual feast Before you begin permit me to send him a brief personal but public message Bob how right you were and how wrong I was I should explain When Bob arrived in Edinburgh in 1967 resolution was as yet fairly new having taken several years to become at all widely known Research groups to investigate various aspects of resolution sprang up at several institutions the one organized by Bernard Meltzer at Edinburgh University being among the first For the half dozen years that Bob was a leading member of Bernard s group I was a frequent visitor to it and I saw a lot of him We had many discussions about logic computation and language **Logic Programming**

Michael Maher,1996 Includes tutorials invited lectures and refereed papers on all aspects of logic programming including Constraints Concurrency and Parallelism Deductive Databases Implementations Meta and Higher order Programming Theory and Semantic Analysis September 2 6 1996 Bonn Germany Every four years the two major international scientific conferences on logic programming merge in one joint event JICSLP 96 is the thirteenth in the two series of annual conferences sponsored by The Association for Logic Programming It includes tutorials invited lectures and refereed papers on all aspects of logic programming including Constraints Concurrency and Parallelism Deductive Databases Implementations Meta and Higher order Programming Theory and Semantic Analysis The contributors are international with strong contingents from the United States United Kingdom France and Japan Logic Programming series Research Reports and Notes *Declarative Logic Programming* Michael Kifer,Yanhong Annie Liu,2018-09-19 The idea of this book grew out of a symposium that was held at Stony Brook in September 2012 in celebration of David S Warren s fundamental contributions to Computer Science and the area of Logic Programming in particular Logic Programming LP is at the nexus of Knowledge Representation Artificial Intelligence Mathematical Logic Databases and Programming Languages It is fascinating and intellectually stimulating due to the fundamental interplay among theory systems and applications brought about by logic

Logic programs are more declarative in the sense that they strive to be logical specifications of what to do rather than how to do it and thus they are high level and easier to understand and maintain. Yet without being given an actual algorithm LP systems implement the logical specifications automatically. Several books cover the basics of LP but focus mostly on the Prolog language with its incomplete control strategy and non logical features. At the same time there is generally a lack of accessible yet comprehensive collections of articles covering the key aspects in declarative LP. These aspects include among others well founded vs stable model semantics for negation constraints object oriented LP updates probabilistic LP and evaluation methods including top down vs bottom up and tabling. For systems the situation is even less satisfactory lacking accessible literature that can help train the new crop of developers practitioners and researchers. There are a few guides on Warren's Abstract Machine WAM which underlies most implementations of Prolog but very little exists on what is needed for constructing a state of the art declarative LP inference engine. Contrast this with the literature on say Compilers where one can first study a book on the general principles and algorithms and then dive in the particulars of a specific compiler. Such resources greatly facilitate the ability to start making meaningful contributions quickly. There is also a dearth of articles about systems that support truly declarative languages especially those that tie into first order logic mathematical programming and constraint solving. LP helps solve challenging problems in a wide range of application areas but in depth analysis of their connection with LP language abstractions and LP implementation methods is lacking. Also rare are surveys of challenging application areas of LP such as Bioinformatics Natural Language Processing Verification and Planning. The goal of this book is to help fill in the previously mentioned void in the LP literature. It offers a number of overviews on key aspects of LP that are suitable for researchers and practitioners as well as graduate students. The following chapters in theory systems and applications of LP are included.

The Gödel Programming Language Patricia Hill, John Wylie Lloyd, 1994

This book gives a tutorial overview of Gödel presents example programs provides a formal definition of the syntax and semantics of the language and covers background material on logic. Gödel is a new general purpose declarative programming language that is based on the paradigm of logic programming and can be regarded as a successor to Prolog. This book gives a tutorial overview of Gödel presents example programs provides a formal definition of the syntax and semantics of the language and covers background material on logic. The Gödel language supports types and modules. It has a rich collection of system modules and provides constraint solving in several domains. It also offers metalogical facilities that provide significant support for metaprograms that do analysis transformation compilation verification debugging and the like. The declarative nature of Gödel makes it well suited for use as a teaching language narrows the gap that currently exists between theory and practice in logic programming makes possible advanced software engineering tools such as declarative debuggers and compiler generators reduces the effort involved in providing a parallel implementation of the language and offers substantial scope for parallelization in such implementations.

Logic Programming series **Logic Based Program Synthesis and**

Transformation Alberto Pettorossi, 2002-07-17 This book presents recent advances in the field of nanoscale characterization of ferroelectric materials using scanning probe microscopy SPM It addresses various imaging mechanisms of ferroelectric domains in SPM quantitative analysis of the piezoresponse signals as well as basic physics of ferroelectrics at the nanoscale level such as nanoscale switching scaling effects and transport behavior This state of the art review of theory and experiments on nanoscale polarization phenomena will be a useful reference for advanced readers as well for newcomers and graduate students interested in the SPM techniques The non specialists will obtain valuable information about different approaches to electrical characterization by SPM while researchers in the ferroelectric field will be provided with details of SPM based measurements of ferroelectrics

Management and Processing of Complex Data Structures Kai von Luck, Heinz Marburger, 1994-02-16 This volume presents the proceedings of the third workshop on Information Systems and Artificial Intelligence organized by the German Computer Science Society The 11 invited contributions by well known researchers and developers working in the fields of databases and knowledge representation systems are centered around the topic of management and processing of complex data structures they give a representative snapshot of the state of the art in this fruitful interdisciplinary research area important for further progress in both information systems and artificial intelligence Most of the papers stress the demands for new or extended formalisms and their deductive capabilities including an analysis of their formal properties for managing complex structures

Handbook of Temporal Reasoning in Artificial Intelligence Michael David Fisher, Dov M. Gabbay, Lluis Vila, 2005-03-01 This collection represents the primary reference work for researchers and students in the area of Temporal Reasoning in Artificial Intelligence Temporal reasoning has a vital role to play in many areas particularly Artificial Intelligence Yet until now there has been no single volume collecting together the breadth of work in this area This collection brings together the leading researchers in a range of relevant areas and provides an coherent description of the breadth of activity concerning temporal reasoning in the field of Artificial Intelligence Key Features Broad range foundations techniques and applications Leading researchers around the world have written the chapters Covers many vital applications Source book for Artificial Intelligence temporal reasoning Approaches provide foundation for many future software systems Broad range foundations techniques and applications Leading researchers around the world have written the chapters Covers many vital applications Source book for Artificial Intelligence temporal reasoning Approaches provide foundation for many future software systems

The Automation of Reasoning with Incomplete Information Torsten Schaub, 1997 Reasoning with incomplete information constitutes a major challenge for any intelligent system In fact we expect such systems not to become paralyzed by missing information but rather to arrive at plausible results by bridging the gaps in the information available A versatile way of reasoning in the absence of information is to reason by default This book aims at providing formal and practical means for automating reasoning with incomplete information by starting from the approach taken by the framework of default logic For this endeavor a bridge is spanned

between formal semantics over systems for default reasoning to efficient implementation Theoretical Aspects of Computer Software Masami Hagiya, John C. Mitchell, 1994-03-30 This volume contains the proceedings of the Second International Symposium on Theoretical Aspects of Computer Science held at Tohoku University Japan in April 1994 This top level international symposium on theoretical computer science is devoted to theoretical aspects of programming programming languages and system and parallel and distributed computation The papers in the volume are grouped into sessions on lambda calculus and programming automated deduction functional programming objects and assignments concurrency term rewriting and process equivalence type theory and programming algebra categories and linear logic and subtyping intersection and union types The volume also includes seven invited talks and two open lectures **CONCUR '98 Concurrency Theory** Davide Sangiorgi, Robert de Simone, 1998-08-19 This book constitutes the refereed proceedings of the 9th International Conference on Concurrency Theory CONCUR 98 held in Nice France in September 1998 The 35 revised full papers presented were carefully selected from a total of 104 submissions Also presented are five invited contributions Among the topics covered are moduls of computation and semantic domains process algebras Petri Nets event structures real time systems hybrid systems model checking verification techniques refinement rewriting typing systems and algorithms etc

10th International Conference on Automated Deduction Mark E. Stickel, 1990 This volume contains the papers presented at the 10th International Conference on Automated Deduction CADE 10 CADE is the major forum at which research on all aspects of automated deduction is presented Although automated deduction research is also presented at more general artificial intelligence conferences the CADE conferences have no peer in the concentration and quality of their contributions to this topic The papers included range from theory to implementation and experimentation from propositional to higher order calculi and nonclassical logics they refine and use a wealth of methods including resolution paramodulation rewriting completion unification and induction and they work with a variety of applications including program verification logic programming deductive databases and theorem proving in many domains The volume also contains abstracts of 20 implementations of automated deduction systems The authors of about half the papers are from the United States many are from Western Europe and many too are from the rest of the world The proceedings of the 5th 6th 7th 8th and 9th CADE conferences are published as Volumes 87 138 170 230 310 in the series Lecture Notes in Computer Science PUBLISHER S WEBSITE

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