

META-PROGRAMMING IN LOGIC PROGRAMMING

EDITED BY
HARVEY ABRAMSON AND M. H. ROGERS

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Meta Programming In Logic Programming

Alberto Pettorossi



Meta Programming In Logic Programming:

Logic Program Synthesis and Transformation - Meta-Programming in Logic Laurent Fribourg, Franco Turini, 1994-11-30 This volume constitutes the combined proceedings of the 4th International Workshops on Logic Program Synthesis and Transformation LOPSTR 94 and on Meta Programming META 94 held jointly in Pisa Italy in June 1994 This book includes thoroughly revised versions of the best papers presented at both workshops The main topics addressed by the META papers are language extensions in support of meta logic semantics of meta logic implementation of meta logic features performance of meta logic and several applicational aspects The LOPSTR papers are devoted to unfolding folding partial deduction proofs as programs inductive logic programming automated program verification specification and programming methodologies

Meta-Logics and Logic Programming Krzysztof Apt, Franco Turini, 2003-02-01 Investigating meta programming within the logic programming paradigm Meta Logics and Logic Programming presents original research on an important extension of logic programming that makes it more amenable for knowledge representation and programming in general The 12 contributions many written especially for this book explore the foundations language design issues and applications of meta programming in logic programming Meta programming the process of writing computer programs that can manipulate representations of other programs has been key both in the foundations of computer science and in its practical developments Examples of meta programs include compilers interpreters program analyzers and partial evaluators The choice of logic programming as a basis for meta programming offers several practical and theoretical advantages among them the possibility of tackling critical foundational problems of meta programming within a strong theoretical framework and the surprising ease of programming The usual framework of logic programming and more generally first order logic however has to be modified and extended to formally deal with meta programs extensions the editors call meta logics Along with an exploration of meta programming in logic programming the definitions formal properties and use of these extensions constitute one of the book's main themes The first part of the book Foundations focuses on the representation problem how object programs are represented within meta programs The second part Language Support for Meta Logics is concerned with language extensions that make meta programming easier and more elegant The third part Meta Logics for Knowledge Management deals with the use of meta logic for advanced knowledge representation purposes

[Meta-programming in Logic Programming](#) Harvey Abramson, M. H. Rogers, 1989 Meta programs which treat other computer programs as data include compilers editors simulators debuggers and program transformers Because of the wide ranging applications meta programming has become a subject of considerable practical and theoretical interest This book provides the first comprehensive view of topics in the theory and application of meta programming covering problems of representation and of soundness and correctness of interpreters analysis and evaluation of meta logic programs and applications to sophisticated knowledge based systems Harvey Abramson is Reader in Computer Science at the University of Bristol England M H Rogers

is Professor of Computer Science also at the University of Bristol

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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 knowledge representation and belief systems and program transformation and analysis in logic Particular topics include belief revision systems intensional deduction belief systems and metaprogramming principles of partial deduction termination in logic programs semantics of the vanilla meta interpreter a complete resolution method for metaprogramming semantics of demo hierarchical metalogics the naming relation in meta level 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 [Workshop on Meta-Programming in Logic Programming](#), 1989 [META 88](#), **Proceedings of the Workshop on Meta-Programming in Logic Programming** J. W. Lloyd, 1988 *Logic Program Synthesis and Transformation - Meta-Programming in Logic* Laurent Fribourg, Franco Turini, 2014-03-12 This volume constitutes the combined proceedings of the 4th International Workshops on Logic Program Synthesis and Transformation LOPSTR 94 and on Meta Programming META 94 held jointly in Pisa Italy in June 1994 This book includes thoroughly revised versions of the best papers presented at both workshops The main topics addressed by the META papers are language extensions in support of meta logic semantics of meta logic implementation of meta logic features performance of meta logic and several applicational aspects The LOPSTR papers are devoted to unfolding folding partial deduction proofs as programs inductive logic programming automated program verification specification and programming methodologies *Meta-programming in Logic Programming* P. M. Hill, J. G. Gallagher, University of Leeds. School of Computer Studies, 1994 **Computational Logic: Logic Programming and Beyond** Antonis C. Kakas, Fariba 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'être 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

Meta-programming in Logic Programming Harvey Abramson, M. H. Rogers, 1989 Meta programs which treat other computer programs as data include compilers editors simulators debuggers and program transformers Because of the wide ranging applications meta programming has become a subject of considerable practical and theoretical interest This book provides the first comprehensive view of topics in the theory and application of meta programming covering problems of representation and of soundness and correctness of interpreters analysis and evaluation of meta logic programs and applications to sophisticated knowledge based systems Harvey Abramson is Reader in Computer Science at the University of Bristol England M H Rogers is Professor of Computer Science also at the University of Bristol Meta Programming in Logic Programming is in the series Logic Programming Research Reports and Notes edited by Ehud Shapiro

META 88: Proceedings of the Workshop on Meta-programming in Logic Programming J. W. Lloyd, 1988

Meta-programming in Logic Alberto Pettorossi, 1992

Models and Resolution Principles for Logical

Meta-programming Languages Institut National de Recherche en Informatique et en Automatique, H. Christiansen, 1992 Abstract Meta programming extends logic programming with the possibility of having a program to create or analyze other programs represented as data structures and to give queries dynamically to these programs Thus languages for meta programming represent a logical formalism in which logical theories can refer to provability in arbitrary other perhaps dynamically generated theories The importance is stressed of allowing variables in the program representation which stand for unknown program fragments even in the program currently under execution This can be used for example for hypothetical reasoning where a program generates the hypotheses to be tested or for program generation in the sense that an interpreter fills in the missing program parts It may lead to a more declarative style of e.g. program generation the meta program can specify properties of the desired programs at a higher level of abstraction and the detailed synthesis is put in the hands of an implementation The declarative semantics is described in terms of Herbrand models analogous to those normally used for plain logic programs and the well known fixed point results generalize immediately The procedural semantics is given as a resolution method which is shown to be sound and complete Complete resolution for meta programming languages is more complicated than usual due to the possibility of uninstantiated variables which stand for unknown parts of the program currently under execution

Meta-Programming in Logic Alberto Pettorossi, 2014-01-15

Logic Program Synthesis and Transformation John P. Gallagher, 1997-03-12 This book constitutes the strictly refereed post workshop proceedings of the Sixth International Workshop on Logic Program Synthesis and Transformation LOPSTR 96 held on board a ship sailing from Stockholm to Helsinki in August 1996 The 17 revised full papers were carefully selected from a total of initially 27 submissions The topics covered range over the areas of synthesis of programs from specifications

verification transformation specialization and analysis of programs and the use of program schemata in program development

Meta-Programming and Model-Driven Meta-Program Development Vytautas Štuikys, Robertas Damaševičius, 2012-08-21 Meta Programming and Model Driven Meta Program Development Principles Processes and Techniques presents an overall analysis of meta programming focusing on insights of meta programming techniques heterogeneous meta program development processes in the context of model driven feature based and transformative approaches The fundamental concepts of meta programming are still not thoroughly understood in this well organized book divided into three parts the authors help to address this Chapters include Taxonomy of fundamental concepts of meta programming Concept of structural heterogeneous meta programming based on the original meta language Model driven concept and feature based modeling to the development process of meta programs Equivalent meta program transformations and metrics to evaluate complexity of feature based models and meta programs Variety of academic research case studies within different application domains to experimentally verify the soundness of the investigated approaches Both authors are professors at Kaunas University of Technology with 15 years research and teaching experience in the field Meta Programming and Model Driven Meta Program Development Principles Processes and Techniques is aimed at post graduates in computer science and software engineering and researchers and program system developers wishing to extend their knowledge in this rapidly evolving sector of science and technology

Logic Programming Saumya Debray, Manuel Hermenegildo, 1990 OCTOBER 29 NOVEMBER 1 1990 AUSTIN TEXAS OCTOBER 29 NOVEMBER 1 1990 AUSTIN TEXAS Theory and Foundations Metaprogramming Constraints Implementations Architecture Deductive Databases Language Issues Relation to Other Paradigms Parallelism Concurrency Compilation Techniques Applications

Proceedings of the Workshop on Meta Programming in Logic ; 1 , 1988 Second Workshop on Meta-programming in Logic Meta-programming in Logic. META 90, 1990

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