

# Lecture Notes in Computer Science

883

Laurent Fribourg  
Franco Turini (Eds.)

## Logic Program Synthesis and Transformation – Meta-Programming in Logic

4th International Workshops, LOPSTR '94 and META '94  
Pisa, Italy, June 1994  
Proceedings



Springer-Verlag

# Logic Program Synthesis And Transformation

**John P. Gallagher**



## **Logic Program Synthesis And Transformation:**

**Logic Program Synthesis and Transformation** Norbert E. Fuchs, 2003-05-20 This volume contains the papers from the Seventh International Workshop on Logic Program Synthesis and Transformation LOPSTR 97 that took place in Leuven Belgium on July 10 12 1997 back to back with the Fourteenth International Conference on Logic Programming ICLP 97 Both ICLP and LOPSTR were organised by the K U Leuven Department of Computer Science LOPSTR 97 was sponsored by Compulog Net and by the Flanders Research Network on Declarative Methods in Computer Science LOPSTR 97 had 39 participants from 13 countries There were two invited talks by Wolfgang Bibel Darmstadt on A multi level approach to program synthesis and by Henning Christiansen Roskilde on Implicit program synthesis by a reversible metainterpreter Extended versions of both talks appear in this volume There were 19 technical papers accepted for presentation at LOPSTR 97 out of 33 submissions Of these 15 appear in extended versions in this volume Their topics range over the fields of program synthesis program transformation program analysis tabling metaprogramming and inductive logic programming

**Logic-Based Program Synthesis and Transformation** Elvira Albert, 2013-04-17 This book constitutes the thoroughly refereed post conference proceedings of the 22nd International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2012 held in Leuven Belgium in September 2012 The 13 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 27 submissions Among the topics covered are specification synthesis verification analysis optimization specialization security certification applications and tools program model manipulation and transformation techniques for any programming language paradigm *Logic Program Synthesis and Transformation* Maurizio Proietti, 1996-03-06 This book constitutes the refereed proceedings of the 5th International Workshop on Logic Program Synthesis and Transformation LOPSTR 95 held in Utrecht The Netherlands in September 1995 The 19 papers included were selected from 40 workshop submissions they offer a unique up to date account of the use of formal synthesis and transformation techniques for computer aided development of logic programs Among the topics addressed are deductive and inductive program synthesis synthesis models based on constructive type theory program specification program analysis theorem proving and applications to various types of programs *Logic-Based Program Synthesis and Transformation* Danny De Schreye, 2010-04-29 Leuven Belgium Chair John Gallagher Roskilde University Denmark Robert Gluck University of Copenhagen Denmark Michael Hanus University of Kiel Germany Reinhard Kahle Universidade Nova de Lisboa Portugal Andy King University of Kent UK Michael Leuschel University of Duisburg-Essen Germany Fabio Martinelli Istituti di Informatica e Telematica Pisa Italy Fred Mesnard Université de La Réunion France Mario Ornaghi Università degli Studi di Milano Italy Germán Puebla Technical University of Madrid Spain Sabina Rossi Università Ca' Foscari di Venezia Italy Josep Silva Technical University of Valencia Spain Peter Schneider Kamp University of Southern Denmark Denmark Tom Schrijvers K U **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

*Logic Program Synthesis and Transformation* Timothy P. Clement, Kung-Kiu Lau, 2013-04-17 Logic programming synthesis and transformation are methods of deriving logic programs from their specifications and where necessary producing alternative but equivalent forms of a given program The techniques involved in synthesis and transformation are extremely important as they allow the systematic construction of correct and efficient programs and have the potential to enhance current methods of software production Transformation strategies are also being widely used in the field of logic program development LOPSTR 91 was the first workshop to deal exclusively with both logic program synthesis and transformation and as such filled an obvious gap in the existing range of logic programming workshops In attempting to cover the subject as comprehensively as possible the workshop brought together researchers with an interest in all aspects of logic including Horn Clause and first order logic and all approaches to program synthesis and transformation Logic Program Synthesis and Transformation provides a complete record of the workshop with all the papers reproduced either in full or as extended abstracts They cover a wide range of aspects both practical and theoretical including the use of mode input output in program transformation program specification and synthesis in constructive formal systems and a case study in formal program development in modular Prolog This volume provides a comprehensive overview of current research and will be invaluable to researchers and postgraduate students who wish to enhance their understanding of logic programming techniques

**Logic-Based Program Synthesis and Transformation** Gopal

Gupta, Ricardo Peña, 2015-04-20 This book constitutes the thoroughly refereed post conference proceedings of the 23rd International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2013 held in Madrid Spain in September 2013 The 13 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 21 submissions during two rounds of reviewing and improvement LOPSTR traditionally solicits papers in the areas of specification synthesis verification transformation analysis optimization composition security reuse applications and tools component based software development software architectures agent based software development and program refinement

**Logic-Based Program Synthesis and Transformation** Fred Mesnard, Peter J. Stuckey, 2019-03-19 This book constitutes the thoroughly refereed post conference proceedings of the 28th International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2018 held in Frankfurt Main Germany in September 2018 The 11 revised full papers were carefully reviewed and selected from 29 submissions In addition to the 11 papers this volume includes 3 abstracts of invited talks and 2 abstracts of invited tutorials The papers are grouped into the following topics analysis of term

rewriting logic based distributed concurrent programming analysis of logic programming and program analysis

**Logic Program Synthesis and Transformation** Kung-Kiu Lau, Timothy P. Clement, 2013-03-09 Logic program synthesis and transformation are topics of central importance to the software industry The demand for software can not be met by the current supply in terms of volume complexity or reliability The most promising solution seems to be the increased automation of software production programmer productivity would improve and correctness could be ensured by the application of mathematical methods Because of their mathematical foundations logic programs lend themselves particularly well to machine assisted development techniques and therefore to automation This volume contains the proceedings of the second International Workshop on Logic Program Synthesis and Transformation LOPSTR 92 held at the University of Manchester 23 July 1992 The LOPSTR workshops are the only international meetings devoted to these two important areas A variety of new techniques were described at the workshop all of which promise to revolutionize the software industry once they become standard practise These include techniques for the transformation of an inefficient program into an equivalent efficient one and the synthesis of a program from a formal specification of its required behaviour Among the topics covered in this volume are optimal transformation of logic programs logic program synthesis via proof planning deductive synthesis of programs for query answering efficient compilation of lazy narrowing into Prolog synthesis of narrowing programs Logimix a self applicable partial evaluator for Prolog proof nets automatic termination analysis Logic Program Synthesis and Transformation describes the latest advances in machine assisted development of logic programs It will provide essential reading for researchers and postgraduate students concerned with these two important areas

*Logic Based Program Synthesis and Transformation* Sandro Etalle, 2005-06-13 This volume contains a selection of the papers presented at LOPSTR 2004 the 14th International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2004 took place in Verona Italy and was co located with the International Static Analysis Symposium SAS 2004 the ACM SIGPLAN 2004 Workshop on Partial Evaluation and Semantics Based Program Manipulation PEPM 2004 and the 6th ACM SIGPLAN International Conference on Principles and Practice of Declarative Programming PPDP 2004

**Logic Program Synthesis and Transformation** Yves Deville, 2012-12-06 This volume contains extended versions of papers presented at the Third International Workshop on Logic Program Synthesis and Transformation LOPSTR 93 held in Louvain la Neuve in July 1993 Much of the success of the workshop is due to Yves Deville who served as Organizer and Chair Many people believe that machine support for the development and evolution of software will play a critical role in future software engineering environments Machine support requires the formalization of the artifacts and processes that arise during the software lifecycle Logic languages are unique in providing a uniform declarative notation for precisely describing application domains software requirements and for prescribing behavior via logic programs Program synthesis and transformation techniques formalize the process of developing correct and efficient programs from requirement specifications The natural intersection

of these two fields of research has been the focus of the LOPSTR workshops. The papers in this volume address many aspects of software development including deductive synthesis, inductive synthesis, transformations for optimizing programs and exploiting parallelism, program analysis techniques particularly via abstract interpretation, meta programming languages and tool support and various extensions to Prolog like languages admitting non Horn clauses, functions and constraints. Despite the progress represented in this volume, the transition from laboratory to practice is fraught with difficulties.

*Logic Program Synthesis and Transformation*, 1996

*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.

**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.

**Logic Based Program Synthesis and Transformation**

Maurice Bruynooghe, 2004-06-24

This volume contains selected papers from LOPSTR 2003, the 13th International Symposium on Logic Based Program Synthesis and Transformation. The LOPSTR series is devoted to research in logic based program development. Particular topics of interest are specification, synthesis, verification, transformation, specialization, analysis, optimization, composition, reuse, component based software development, agent based software development, software architectures, design patterns and frameworks, program refinement and logics for refinement, proofs as programs and applications and tools.

LOPSTR 2003 took place at the University of Uppsala from August 25 to August 27 as part of PLI 2003 Principles, Logics and Implementations of High Level Programming Languages. PLI was an ACM organized confederation of conferences and workshops with ICFP 2003 ACM SIGPLAN International Conference on Functional Programming and PPDP 2003 ACM SIGPLAN International Conference on Principles and Practice of Declarative Programming as the main events. The LOPSTR

community protected from the shared lectures of the invited speakers and the active scientific discussions enabled by the co-location LOPSTR 2003 was the thirteenth in a series of events. Past events were held in Manchester UK 1991, 1992, 1998, Louvain-la-Neuve Belgium 1993, Pisa Italy 1994, Arnhem The Netherlands 1995, Stockholm Sweden 1996, Leuven Belgium 1997, Venice Italy 1999, London UK 2000, Paphos Cyprus 2001, and Madrid Spain 2002. *Logic-Based Program Synthesis and Transformation* Germán Puebla, 2007-05-22. This book constitutes the thoroughly refereed postproceedings of the 16th International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2006 held in Venice Italy July 2006 in conjunction with ICALP 2006, PPDP 2006 and CSFW 2006. The 14 revised full papers cover tools for program development, partial evaluation and program transformation, security and synthesis, debugging and testing as well as termination and analysis. **Logic Based Program Synthesis and Transformation** M. Leuschel, 2003-08-03. The thoroughly refereed postproceedings of the 12th International Workshop on Logic Based Program Synthesis and Transformation LOPSTR 2002 held in Madrid Spain in September 2002. The 15 revised full papers presented together with 7 abstracts were carefully selected during two rounds of reviewing and revision from 40 submissions. The papers are organized in topical sections on debugging and types, tabling and constraints, abstract interpretation, program refinement, verification, partial evaluation and rewriting, and object-oriented development. **Logic-Based Program Synthesis and Transformation** Moreno Falaschi, 2015-12-16. This book constitutes the thoroughly refereed post-conference proceedings of the 25th International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2015 held in Siena Italy in July 2015. The 21 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 30 submissions. The aim of the LOPSTR series is to stimulate and promote international research and collaboration on logic-based program development. LOPSTR is open to contributions in all aspects of logic-based program development, all stages of the software life cycle and issues of both programming in the small and programming in the large. *Logic-Based Program Synthesis and Transformation* Manuel V. Hermenegildo, Pedro Lopez-Garcia, 2017-07-21. This book constitutes the thoroughly refereed post-conference proceedings of the 26th International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2016 held in Edinburgh UK in September 2016. The 20 revised full papers presented together with the abstracts of 3 invited talks were carefully reviewed and selected from 38 submissions. The aim of the LOPSTR series is to stimulate and promote international research and collaboration on logic-based program development. LOPSTR is open to contributions in all aspects of logic-based program development, all stages of the software life cycle and issues of both programming in the small and programming in the large. LOPSTR traditionally solicits contributions in any language paradigm in the areas of synthesis, specification, transformation, analysis and verification, specialization, testing and certification, composition, program model manipulation, optimization, transformational techniques in SE, inversion, applications and tools. Logic-Based Program Synthesis and Transformation Annalisa Bossi, 2000-06-07. This volume contains the proceedings of the ninth international workshop on logic

based program synthesis and transformation LOPSTR 99 which was held in Venice Italy September 22 24 1999  
LOPSTR is the annual workshop and forum for researchers in the logic based program development stream of computational logic  
The main focus used to be on synthesis and transformation of logic programs but the workshop is open to contributions on  
logic based program development in any paradigm Previous workshops were held in Manchester UK 1991 1992 Louvain la  
Neuve Belgium 1993 Pisa Italy 1994 Arnhem The Netherlands 1995 Stockholm Sweden 1996 Leuven Belgium 1997 and  
Manchester UK 1998 LOPSTR is a real workshop in the sense that it is a friendly and lively forum for presenting recent and  
current research as well as discussing future trends Formal proceedings of the workshop are produced only after the  
workshop and contain only those papers selected by the program committee after a second refereeing process The program  
committee of LOPSTR 99 accepted 20 extended abstracts for presentation at the workshop then selected 14 papers for  
inclusion in the workshop proceedings Selected papers cover all the main streams of LOPSTR's topics synthesis  
specialization transformation analysis and verification Verification transformation and specialization methods are applied to  
functional constraint logic and imperative programming



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