

On Modular Termination Proofs of General Logic Programs

ANNALISA BOSSI, NICOLETTA COCCO, SABINA ROSSI

*Dipartimento di Informatica, Università Ca' Foscari di Venezia
via Torino 155, 30172 Venezia, Italy*

SANDRO ETALLE

*Department of Computer Science, University of Twente
P.O. Box 217, 7500 AE Enschede, The Netherlands
and*

*CWI - Center for Mathematics and Computer Science,
P.O. Box 94079, 1090 GB Amsterdam, The Netherlands*

Abstract

We propose a modular method for proving termination of general logic programs (i.e., logic programs with negation). It is based on the notion of acceptable programs, but it allows us to prove termination in a truly modular way. We consider programs consisting of a hierarchy of modules and supply a general result for proving termination by dealing with each module separately. For programs which are in a certain sense well-behaved, namely well-moded or well-typed programs, we derive both a simple verification technique and an iterative proof method. Some examples show how our system allows for greatly simplified proofs.

1 Introduction

It is standard practice to tackle a large proof by decomposing it into more manageable pieces (lemmata or modules) and proving them separately. By composing appropriately these simpler results, one can then obtain the final proof. This methodology has been recognized an important one also when proving termination of logic programs. Moreover most practical logic programs are engineered by assembling different modules and libraries, some of which might be pre-compiled or written in a different programming language. In such a situation, a compositional methodology for proving termination is of crucial importance.

The first approach to modular termination proofs of logic programs has been proposed by Apt and Pedreschi in (Apt and Pedreschi 1994). It extends the seminal work on acceptable programs (Apt and Pedreschi 1993) which provides an algebraic characterization of programs terminating under Prolog left-to-right selection rule. The class of acceptable programs contains programs which terminate on ground queries. To prove acceptability one needs to determine a measure on literals (*level mapping*) such that, in any clause, the measure of the head is greater than the measure of each body literal. This implies the decreasing of the measure of the

Termination Proofs For Logic Programs

Alberto Pettorossi



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Termination Proofs for Logic Programs Lutz Plümer, 1990 Termination proofs constitute a crucial part of program verification Much research about termination has been done in the context of term rewriting systems But until now there was little hope that termination proofs for nontrivial programs could be achieved automatically This book gives a comprehensive discussion of the termination problem in the context of logic programming Although logic programs pose special difficulties for termination proofs it turns out that automation of this task is obtainable to a much larger degree than for programs in imperative languages A technique for the automatic derivation of termination proofs is presented in detail The discussion of several nontrivial examples illustrates its range of applicability The approach is based on the concept of declarative semantics and thus makes use of an important feature of logic programming PUBLISHER S WEBSITE **TERMINATION PROOFS FOR LOGIC PROGRAMS** Lutz Plümer, 1990 Deriving Termination Proofs for Logic Programs, Using Abstract Procedures K. Verschaetse, D. De Schreye, 1991 **Termination proofs for logic programs based on predicate inequalities** Lutz Plümer, 1990 **Logic Programming** Lee Naish, 1997 Covers the latest research in areas such as theoretical foundations constraints concurrency and parallelism deductive databases language design and implementation non monotonic reasoning and logic programming and the Internet 8 12 July 1997 Leuven Belgium The International Conference on Logic Programming is the main annual conference sponsored by the Association for Logic Programming It covers the latest research in areas such as theoretical foundations constraints concurrency and parallelism deductive databases language design and implementation non monotonic reasoning and logic programming and the Internet **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 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

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the topic of program automation from a contemporary software engineering viewpoint SAIG correspondingly represents a community attacking automation from a more formal programming languages viewpoint Together their combination provides the depth of theory and practice that one would expect in a premier research conference Three prominent PLI invited speakers lectured at GPCE 2002 Neil Jones University of Copenhagen Catuscia Palamidessi Penn State University and Janos Sztipanovits Vanderbilt University GPCE 2002 received 39 submissions of which 18 were accepted

Principles and Practice of Declarative Programming Gopalan Nadathur, 2006-12-29 This book constitutes the refereed proceedings of the International Conference on Principles and Practice of Declarative Programming PPDP 99 held in Paris France in September October 1999 The 22 revised full papers presented together with three invited contributions were carefully reviewed and selected from a total of 52 full length papers submitted Among the topics covered are type theory logics and logical methods in understanding defining integrating and extending programming paradigms such as functional logic object oriented constraint and concurrent programming support for modularity the use of logics in the design of program development tools and development and implementation methods

Logic Programming Christoph Beierle, Lutz Plümer, 1995 This text aims at promoting a convergence between the technical challenges of developing advanced software systems and the formal techniques tools and features evolving from the logic programming paradigm It provides contributions towards different aspects of logic programming

Automated Termination Analysis for Logic Programs Kirack Sohn, 1993

Logic Program Synthesis and Transformation, 1996

ACM Transactions on Programming Languages and Systems Association for Computing Machinery, 2000

Constructing Logic Programs Jean-Marie Jacquet, 1993-09-21 This is an in depth analysis of the complexities and practical advantages of several approaches to logic program development The authors highlight state of the art research illustrating and clarifying each concept by example Exercises and a general tutorial style give the book its practical perspective It addresses the problems which may be encountered in the complicated process of writing a logic program A structured discussion of each facet of this task covers broadly the synthesis derivation and analysis of a logic program as well as the necessary underlying theoretical foundations Page 4 de la couverture

Functional and Logic Programming, 1999

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In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Termination Proofs For Logic Programs**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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