Maurice Bruynooghe
Kung-Kiu Lau (Eds.)

Program Development in Computational Logic

A Decade of Research Advances in Logic-Based Program Development

Program Development In Computational Logic

Emilie Sanchez

Program Development In Computational Logic:

Program Development in Computational Logic Maurice Bruynooghe,Kung-Kiu Lau,2014-03-12 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 Speci cation synthesis transformation or specialization analysis debugging and veri cation 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 veri cation and speci ization However itisfairtosaythatsofarthefocushaslargelybeenonprogrammi 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 re ect signi cant research e orts over the past 10 years These papers cover the wholedevelopmentprocess speci cation synthesis analysis transformationand specialization as well as semantics and systems **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 Speci cation synthesis transformation or specialization analysis debugging and veri cation 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 veri cation and speci ization However itisfairtosaythatsofarthefocushaslargelybeenonprogrammi 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 re ect signi cant research e orts over the past 10 years These papers cover the wholedevelopmentprocess speci cation synthesis analysis transformationand specialization as well as semantics and systems **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   Computational Logic J.W. Lloyd,2012-12-06 This volume has a dual significance to the ESPRIT Basic Research efforts towards forging strong links between European academic and industrial teams carrying out research often interdisciplinary at the forefront of Information Technology Firstly it consists of the proceedings of the Symposium on Computational Logic held on the occasion of the 7th ESPRIT Conference Week in November 1990 whose organisation was inspired by the work of Basic Research Action 3012 COMPULOG This is a consortium which has attracted world wide interest with requests for collaboration throughout Europe the US and Japan The work of COMPULOG acts as a focal point in this symposium which is broadened to cover the work of other eminent researchers in the field thus providing a review of the state of the art in computational logic new and important contributions in the field but also a vision of the future Secondly this volume is the first of an ESPRIT Basic Research Series of publications of research results It is expected that the quality of content and broad distribution of this series will have a major impact in making the advances achieved accessible to the world of academic and industrial research alike At this time all ESPRIT Basic Research Actions have completed their first year and it is most encouraging and stimulating to see the flow of results such as the fine examples presented in this symposium   Computational Logic Ulrich Berger,Helmut Schwichtenberg,2012-12-06 Recent developments in computer science clearly show the need for a better theoretical foundation for some central issues Methods and results from mathematical logic in particular proof theory and model theory are of great help here and will be used much more in future than previously This book provides an excellent introduction to the interplay of mathematical logic and computer science It contains extensively reworked versions of the lectures given at the 1997 Marktoberdorf Summer School by leading researchers in the field Topics covered include proof theory and specification of computation J Y Girard D Miller complexity of proofs and programs S R Buss S S Wainer computational content of proofs H Schwichtenberg constructive type theory P Aczel H Barendregt R L Constable computational mathematics U Martin rewriting logic J Meseguer and game semantics S Abramski   *Logic-based Program Synthesis and Transformation / ,1998*

Computational Logic — CL 2000 John Lloyd,Veronica Dahl,Ulrich Furbach,Manfred Kerber,Kung-Kiu Lau,Catuscia Palamidessi,Luis M. Pereira,Yehoshua Sagiv,Peter J. Stuckey,2000-07-17 These are the proceedings of the First International

Conference on Compu tional Logic CL 2000 which was held at Imperial College in London from 24th to 28th July 2000 The theme of the conference covered all aspects of the theory implementation and application of computational logic where computational logic is to be understood broadly as the use of logic in computer science The conference was collocated with the following events 6th International Conference on Rules and Objects in Databases DOOD 2000 10th International Workshop on Logic based Program Synthesis and Tra formation LOPSTR 2000 10th International Conference on Inductive Logic Programming ILP 2000 CL 2000 consisted of seven streams Program Development LOPSTR 2000 Logic Programming Theory and Extensions Constraints Automated Deduction Putting Theory into Practice Knowledge Representation and Non monotonic Reasoning Database Systems DOOD 2000 Logic Programming Implementations and Applications The LOPSTR 2000 workshop constituted the program development stream and the DOOD 2000 conference constituted the database systems stream Each stream had its own chair and program committee which autonomously selected the papers in the area of the stream Overall 176 papers were submitted of which 86 were selected to be presented at the conference and appear in these proceedings The acceptance rate was uniform across the streams In addition LOPSTR 2000 accepted about 15 extended abstracts to be presented at the conference in the program development stream **ACM Transactions on Computational Logic** ,2010 **Deutsche Nationalbibliografie** ,2004-07 **Type Theory and Functional Programming** Simon Thompson,1991 This book explores the role of Martin Lof s constructive type theory in computer programming The main focus of the book is how the theory can be successfully applied in practice Introductory sections provide the necessary background in logic lambda calculus and constructive mathematics and exercises and chapter summaries are included to reinforce understanding *Computational Logic: Logic Programming and Beyond* Antonis C. Kakas,Robert Kowalski,2002-07-12 This volume spans the whole field of computational logic seen from the point of view of logic programming The topics addressed range from issues concerning the development of programming languages in logic and the application of computational logic to real life problems to philosophical studies of the field at the other end of the spectrum The articles presented cover the contributions of computational logic to databases and artificial intelligence with particular emphasis on automated reasoning reasoning about actions and change natural languages and learning Together with its companion volume LNAI 2407 this book commemorates the 60th birthday of Bob Kowalski as one of the founders of and contributors to computational logic **Mathematical Reviews** ,2006 **Business Process Management** ,2004 **Proceedings of the ... ACM SIGPLAN Symposium on Partial Evaluation and Semantics-Based Program Manipulation** ,2004 *Deutsche Nationalbibliografie* Die deutsche Nationalbibliothek,2008 **Application and Theory of Petri Nets** ,2004 **Euro Abstracts** ,1994 *Computational Models of Speech Pattern Processing* Keith Ponting,1999-03-11 Proceedings of the NATO Advanced Study Institute on Computational Models of Speech Pattern Processing held in St Helier Jersey UK July 7 18 1997 **Algebraic Methodology and Software Technology** ,2004

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