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# Program Development in Computational Logic

A Decade of Research Advances  
in Logic-Based Program Development



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# Program Development In Computational Logic

**Philip R. Hulbig**



## **Program Development In Computational Logic:**

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

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 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

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Program Specialization Renaud Marlet, 2013-01-24 This book presents the principles and techniques of program specialization a general method to make programs faster and possibly smaller when some inputs can be known in advance As an illustration it describes the architecture of Tempo an offline program specializer for C that can also specialize code at

runtime and provides figures for concrete applications in various domains Technical details address issues related to program analysis precision value reification incomplete program specialization strategies to exploit specialized program incremental specialization and data specialization The book that targets both researchers and software engineers also opens scientific and industrial perspectives

**Programming Languages and Systems** Mooly Sagiv, 2005-03-23 This book constitutes the refereed proceedings of the 14th European Symposium on Programming ESOP 2005 held in Edinburgh UK in April 2005 as part of ETAPS The 28 revised full papers presented with the extended abstract of an invited paper were carefully reviewed and selected from 14 submissions The papers deal with a broad variety of current issues in the specification analysis and implementation of programming languages and systems

Teaching Formal Methods C. Neville Dean, Raymond T. Boute, 2004-11-17 This book constitutes the refereed proceedings of the CoLogNet FME Symposium on Teaching Formal Methods TFM 2004 held in Ghent Belgium in November 2004 The 15 revised full papers presented together with an invited paper and 2 abstracts of invited talks were carefully reviewed and selected from numerous submissions The papers presented explore the failures and successes of formal methods education consider how the failures might be resolved evaluate how to learn from the successes and attempt promoting cooperative projects to further the teaching and learning and the usage and acceptance of formal methods

**Hagenberg Research** Bruno Buchberger, Michael Affenzeller, Alois Ferscha, Michael Haller, Tudor Jebelean, Erich Peter Klement, Peter Paule, Gustav Pomberger, Wolfgang Schreiner, Robert Stubenrauch, Roland Wagner, Gerhard Weiß, Wolfgang Windsteiger, 2009-05-29 Bruno Buchberger This book is a synopsis of basic and applied research done at the various research institutions of the Softwarepark Hagenberg in Austria Starting with 15 coworkers in my Research Institute for Symbolic Computation RISC I initiated the Softwarepark Hagenberg in 1987 on request of the Upper Austrian Government with the objective of creating a scientific technological and economic impulse for the region and the international community In the meantime in a joint effort the Softwarepark Hagenberg has grown to the current 2009 size of over 1000 R D employees and 1300 students in six research institutions 40 companies and 20 academic study programs on the bachelor master s and PhD level The goal of the Softwarepark Hagenberg is innovation of economy in one of the most important current technologies software It is the message of this book that this can only be achieved and guaranteed long term by watering the root namely emphasis on research both basic and applied In this book we summarize what has been achieved in terms of research in the various research institutions in the Softwarepark Hagenberg and what research vision we have for the imminent future When I founded the Softwarepark Hagenberg in addition to the watering the root principle I had the vision that such a technology park can only prosper if we realize the magic triangle i e the close interaction of research academic education and business applications at one site see Figure 1

AI 2006: Advances in Artificial Intelligence Abdul Sattar, Byeong Ho Kang, 2006-11-18 This book constitutes the refereed proceedings of the 19th Australian Joint Conference on Artificial Intelligence AI 2006 held in Hobart Australia December 2006 Coverage includes

foundations and knowledge based system machine learning connectionist AI data mining intelligent agents cognition and user interface vision and image processing natural language processing and Web intelligence neural networks robotics and AI applications     Declarative Agent Languages and Technologies VIII Andrea Omicini, Sebastian Sardina, Wamberto Vasconcelos, 2011-04-26 This book constitutes the thoroughly refereed post workshop proceedings of the 8th International Workshop on Declarative Agent Languages and Technologies DALT 2010 held in Toronto Canada on May 10 2010 as a satellite workshop of the 9th International Joint Conference on Autonomous Agents and Multiagent Systems AAMAS 2010 The 7 revised full papers presented together with 4 invited lectures were carefully selected during two rounds of reviewing and improvement from 24 initial submissions DALT aims to make formal methods and declarative technologies and approaches available to and understood by a broader segment of the multi agent research community the papers are organized in topical sections on BDI rational agents communication coordination and negotiation as well as social aspects and control systems     *Interactive Theorem Proving and Program Development* Yves Bertot, Pierre Castéran, 2013-03-14 Coq is an interactive proof assistant for the development of mathematical theories and formally certified software It is based on a theory called the calculus of inductive constructions a variant of type theory This book provides a pragmatic introduction to the development of proofs and certified programs using Coq With its large collection of examples and exercises it is an invaluable tool for researchers students and engineers interested in formal methods and the development of zero fault software     *Verification, Model Checking, and Abstract Interpretation* E. Allen Emerson, 2006-02-10 The 27 revised full papers presented here together with one invited paper were carefully reviewed and selected from 58 submissions The papers feature current research from the communities of verification model checking and abstract interpretation facilitating interaction cross fertilization and advancement of hybrid methods     **Declarative Programming and Knowledge Management** Dietmar Seipel, Michael Hanus, Salvador Abreu, 2018-09-26 This book constitutes revised selected papers from the 21st International Conference on Applications of Declarative Programming and Knowledge Management INAP 2017 the 31st Workshop on Logic Programming WLP 2017 and the 25th Workshop on Functional and Constraint Logic Programming WFLP 2017 The 12 full papers presented in this volume were carefully reviewed and selected from 26 submissions The contributions were organized in topical sections named constraints declarative systems and functional and logic programming     Principles of Abstract Interpretation Patrick Cousot, 2021-09-21 Introduction to abstract interpretation with examples of applications to the semantics specification verification and static analysis of computer programs Formal methods are mathematically rigorous techniques for the specification development manipulation and verification of safe robust and secure software and hardware systems Abstract interpretation is a unifying theory of formal methods that proposes a general methodology for proving the correctness of computing systems based on their semantics The concepts of abstract interpretation underlie such software tools as compilers type systems and security protocol analyzers This book provides an

introduction to the theory and practice of abstract interpretation offering examples of applications to semantics specification verification and static analysis of programming languages with emphasis on calculational design The book covers all necessary computer science and mathematical concepts including most of the logic order linear fixpoint and discrete mathematics frequently used in computer science in separate chapters before they are used in the text Each chapter offers exercises and selected solutions Chapter topics include syntax parsing trace semantics properties and their abstraction fixpoints and their abstractions reachability semantics abstract domain and abstract interpreter specification and verification effective fixpoint approximation relational static analysis and symbolic static analysis The main applications covered include program semantics program specification and verification program dynamic and static analysis of numerical properties and of such symbolic properties as dataflow analysis software model checking pointer analysis dependency and typing both for forward and backward analysis and their combinations Principles of Abstract Interpretation is suitable for classroom use at the graduate level and as a reference for researchers and practitioners

**Mathematical Methods in Program Development** Manfred Broy, Birgit Schieder, 2012-12-06 Modern information processing systems show such complex properties as distribution parallelism interaction time dependency and nondeterminism For critical applications mathematical methods are needed to model the systems and to support their development and validation Impressive progress in mathematical methods for programming software systems makes it possible to think about unifying the different approaches This book gives a comprehensive overview of existing methods and presents some of the most recent results in applying them The main topics are advanced programming techniques foundations of systems engineering mathematical support methods and application of the methods The approaches presented are illustrated by examples and related to other approaches

*Formal Methods for Components and Objects* Frank S. de Boer, Marcello M. Bonsangue, Susanne Graf, Willem-Paul de Roever, 2006-09-30 This book presents 19 revised invited keynote lectures and revised tutorial lectures given at the 4th International Symposium on Formal Methods for Components and Objects FMCO 2005 Amsterdam November 2005 The book provides a unique combination of ideas on software engineering and formal methods that reflect the current interest in the application or development of formal methods for large scale software systems such as component based systems and object systems

**Automated Reasoning** Nicolas Peltier, Viorica Sofronie-Stokkermans, 2020-06-30 This two volume set LNAI 12166 and 12167 constitutes the refereed proceedings of the 10th International Joint Conference on Automated Reasoning IJCAR 2020 held in Paris France in July 2020 In 2020 IJCAR was a merger of the following leading events namely CADE International Conference on Automated Deduction FroCoS International Symposium on Frontiers of Combining Systems ITP International Conference on Interactive Theorem Proving and TABLEAUX International Conference on Analytic Tableaux and Related Methods The 46 full research papers 5 short papers and 11 system descriptions presented together with two invited talks were carefully reviewed and selected from 150 submissions The papers focus on the following

topics Part I SAT SMT and QBF decision procedures and combination of theories superposition proof procedures non classical logics Part II interactive theorem proving HOL formalizations verification reasoning systems and tools The conference was held virtually due to the COVID 19 pandemic Chapter Constructive Hybrid Games is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

**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'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

**Formal Methods for Components and Objects**, 2007 **The Pedagogy of Self-Authorship** Philip R. Hulbig, 2023-10-14 This book is a deep dive into the developmental and neurocognitive impact of metacognition and its role in self transformation It connects the latest science on learning neuroplasticity and self development with the rich history of metacognitive educational practices creating an educational vision capable to address difficult issues faced by modern education This vision highlights self regulation self authorship and self transformation as the key learning goals of a free and equitable education system This model of education is grounded in science problem solving and is capable of addressing the needs of a neurologically diverse humanity Interviews from experts at Program for the Advancement of Learning PAL are integrated with the author autobiographical account of their transformative learning experience to provide evidence on the effectiveness of utilizing a metacognitive pedagogy in promoting transformative learning The book concludes with a general pedagogy of metacognitive instruction that integrates the scientific method with the development of an individual's theory of mind to induce expansive personal development and achievement This book would be of interest to educators and scholars as well as practitioners supporting neurodivergent students and employees neurodiversity advocates and critical disability studies researchers

**Genetic Programming Theory and Practice XV** Wolfgang Banzhaf, Randal S. Olson, William Tozier, Rick Riolo, 2018-07-05 These contributions written by the foremost international researchers and practitioners of Genetic Programming GP explore the synergy between theoretical and empirical results on real world problems producing a comprehensive view of the state of the art in GP Topics in this volume include exploiting subprograms

in genetic programming schema frequencies in GP Accessible AI GP for Big Data lexicase selection symbolic regression techniques co evolution of GP and LCS and applying ecological principles to GP It also covers several chapters on best practices and lessons learned from hands on experience Readers will discover large scale real world applications of GP to a variety of problem domains via in depth presentations of the latest and most significant results      **Topics in the Theory of Computation** M. Karpinski, J. van Leeuwen, 1985-01-01 This volume contains nine selected papers presented at the Borgholm conference They were chosen on the basis of their immediate relevance to the most fundamental aspects of the theory of computation and the newest developments in this area These papers which have been extended and refereed fall into eight categories 1 Constructive Mathematics in Models of Computation and Programming 2 Abstract Calculi and Denotational Semantics 3 Theory of Machines Computations and Languages 4 Nondeterminism Concurrency and Distributed Computing 5 Abstract Algebras Logics and Combinatorics in Computation Theory 6 General Computability and Decidability 7 Computational and Arithmetic Complexity 8 Analysis of Algorithms and Feasible Computing

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