Progress in Theoretical Computer Science

Christian Prehofer

Solving Higher-Order Equations

From Logic to Programming

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Solving Higher Order Equations From Logic To Programming

Alan J.A. Robinson,Andrei Voronkov

Solving Higher Order Equations From Logic To Programming:

Solving Higher-Order Equations Christian Prehofer,2012-12-06 This monograph develops techniques for equational reasoning in higher order logic Due to its expressiveness higher order logic is used for specification and verification of hardware software and mathematics In these applica tions higher order logic provides the necessary level of abstraction for con cise and natural formulations The main assets of higher order logic are quan tification over functions or predicates and its abstraction mechanism These allow one to represent quantification in formulas and other variable binding constructs In this book we focus on equational logic as a fundamental and natural concept in computer science and mathematics We present calculi for equa tional reasoning modulo higher order equations presented as rewrite rules This is followed by a systematic development from general equational rea soning towards effective calculi for declarative programming in higher order logic and A calculus This aims at integrating and generalizing declarative programming models such as functional and logic programming In these two prominent declarative computation models we can view a program as a logical theory and a computation as a deduction Solving Higher-order Equations Christian Prehofer,1998 **Theorem Proving in Higher Order Logics** Victor A. Carreno,Cesar A. Munoz,Sofiene Tahar,2002-08-07 Felty PuzzleTool AnExampleofProgrammingComputationandDeduction 214 MichaelJ C Gordon AFormalApproachtoProbabilisticTermination 230 JoeHurd UsingTheoremProvingforNumericalAnalysis 246 MicaelaMayero QuotientTypes AModularApproach 263 AlekseyNogin SequentSchemaforDerivedRules 281 AlekseyNogin JasonHickey AlgebraicStructuresandDependentRecords 298 VirgilePrevosto DamienDoligez Th er eseHardin ProvingtheEquivalenceofMicrostepandMacrostepSemantics 314 KlausSchneider WeakestPreconditionforGeneralRecursiveProgramsFormalizedinCoq **Handbook of Automated Reasoning** Alan J.A. Robinson,Andrei Voronkov,2001-06-21 Handbook of Automated Reasoning Rewriting Techniques and Applications Harald Ganzinger,1996-07 This book constitutes the refereed proceedings of the 7th International Conference on Rewriting Techniques and Applications RTA 96 held in New Brunswick NJ USA in July 1996 The 27 revised full papers presented in this volume were selected from a total of 84 submissions also included are six system descriptions and abstracts of three invited papers The topics covered include analysis of term rewriting systems string and graph rewriting rewrite based theorem proving conditional term rewriting higher order rewriting unification symbolic and algebraic computation and efficient implementation of rewriting on sequential and parallel machines **Functional and Logic Programming** Aart Middeldorp,Taisuke Sato,2006-12-29 This volume contains the papers presented at the 4th Fuji International S posium on Functional and Logic Programming FLOPS 99 held in Tsukuba Japan November 11 13 1999 and hosted by the Electrotechnical Laboratory ETL FLOPS is a forum for presenting and discussing all issues concerning functional programming logic programming and their integration The sym sium takes place about every 1 5 years in Japan Previous FLOPS meetings were held in Fuji Susuno 1995 Shonan Village 1996 and Kyoto 1998 1 There were 51 submissions

from Austria Belgium 2 Brazil 3 China 3 3 1 7 1 Denmark 2 France 3 Germany 8 Ireland 1 Israel Italy 1 4 3 12 1 Japan 9 Korea 1 Morocco 1 The Netherlands 1 New Zealand 1 3 1 1 3 5 Portugal Singapore Slovakia 1 Spain 4 Sweden 1 UK 4 2 3 4 6 1 and USA 2 of which the program committee selected 21 for presentation In 4 addition this volume contains full papers by the two invited speakers Atsushi Ohori and Mario Rodr guez Artalejo **Functional and Logic Programming** Herbert Kuchen,Kazunori Ueda,2003-06-29 This book constitutes the refereed proceedings of the 5th International Symposium on Functional and Logic Programming FLOPS 2001 held in Tokyo Japan in March 2001 The 21 revised full papers presented together with three invited papers were carefully reviewed and selected from 40 submissions The book offers topical sections on functional programming logic programming functional logic programming types program analysis and transformation and Lambda calculus *Constraints in Computational Logics: Theory and Applications* Hubert Comon,Claude Marche,Ralf Treinen,2003-08-06 Constraints provide a declarative way of representing infinite sets of data They are well suited for combining different logical or programming paradigms as has been known for constraint logic programming since the 1980s and more recently for functional programming The use of constraints in automated deduction is more recent and has proved to be very successful moving the control from the meta level to the constraints which are now first class objects This monograph like book presents six thoroughly reviewed and revised lectures given by leading researchers at the summer school organized by the ESPRIT CCL Working Group in Gif sur Yvette France in September 1999 The book offers coherently written chapters on constraints and constraint solving constraint solving on terms combining constraint solving constraints and theorem proving functional and constraint logic programming and building industrial applications **Functional And Logic Programming - Proceedings Of The Second Fuji International Workshop** Tetsuo Ida,Masato Takeichi,Atsushi Ohori,1997-03-18 This book discusses issues concerning functional programming logic programming and integration of the two The topics include language design formal semantics compilation techniques program transformation programming methods integration of programming paradigms constraint solving and concurrency *Constraints in Computational Logics. Theory and Applications* Hubert Comon,ESPRIT CCL Working Group,2001-04-18 Constraints and constraint solving an introduction Jean Pierre Jouannaud Constraint solving on terms Hubert Comon Combining constraint solving Franz Baader Constraints and theorem proving Harald Ganzinger Functional and constraint logic programming Mario Rodr guez Artalejo Building industrial applications with constraint programming Helmut Simonis **Rewriting Techniques and Applications** Paliath Narendran,Michael Rusinowitch,1999-06-16 This book constitutes the refereed proceedings of the 10th International Conference on Rewriting Techniques and Applications RTA 99 held in Trento Italy in July 1999 as part of FLoC 99 The 23 revised full papers presented were carefully selected from a total of 53 submissions Also included are four system descriptions as well as three invited contributions Among the topics covered are constraint solving termination deduction and higher order rewriting graphs complexity tree automata context sensitive rewriting string rewriting and numeration systems

etc **Algebraic Methodology and Software Technology** Michael Johnson,Dusko Pavlovic,2011-01-14 This book constitutes the refereed proceedings of the 13th International Conference on Algebraic Methodology and Software Technology AMAST 2010 held in Lac Beauport QC Canada in June 2010 The 14 revised full papers presented were carefully reviewed and selected from 33 submissions The papers are organized in 1 invited paper 10 contributed research papers and 4 system demonstrations *Algebraic Methodology and Software Technology* V.S. Alagar,Maurice Nivat,1995-05-21 This volume constitutes the proceedings of the 4th International Conference on Algebraic Methodology and Software Technology held in Montreal Canada in July 1995 It includes full papers or extended abstracts of the invited talks refereed selected contributions and research prototype tools The invited speakers are David Gries Jeanette Wing Dan Craigen Ted Ralston Ewa Orlowska Krzysztof Apt Joseph Goguen and Rohit Parikh The 29 refereed papers presented were selected from some 100 submissions they are organized in sections on algebraic and logical foundations concurrent and reactive systems software technology logic programming and databases **Functional And Logic Programming - Proceedings Of The Fuji International Workshop** Masato Takeichi,Tetsuo Ida,1995-11-16 This volume is a compilation of the papers presented at the Fuji International Workshop on Functional and Logic Programming in Fuji Susono Japan Topics include Language Design Formal Semantics Compilation Techniques Program Transformation Programming Methods etc *Foundations of Software Technology and Theoretical Computer Science* Vijay Chandru,1996-11-27 This book constitutes the refereed proceedings of the 16th International Conference on Foundations of Software Technology and Theoretical Computer Science FST also included are four invited contributions The papers are organized in topical sections on computational geometry process algebras program semantics algorithms rewriting and equational temporal logics complexity theory and type theory

Term Rewriting and All That Franz Baader,Tobias Nipkow,1999-08-05 This textbook offers a unified and self contained introduction to the field of term rewriting It covers all the basic material abstract reduction systems termination confluence completion and combination problems but also some important and closely connected subjects universal algebra unification theory Gr bner bases and Buchberger s algorithm The main algorithms are presented both informally and as programs in the functional language Standard ML an appendix contains a quick and easy introduction to ML Certain crucial algorithms like unification and congruence closure are covered in more depth and Pascal programs are developed The book contains many examples and over 170 exercises This text is also an ideal reference book for professional researchers results that have been spread over many conference and journal articles are collected together in a unified notation proofs of almost all theorems are provided and each chapter closes with a guide to the literature **Term Rewriting Systems** Terese,2003-03-20 Term rewriting systems developed out of mathematical logic and are an important part of theoretical computer science They consist of sequences of discrete transformation steps where one term is replaced with another and have applications in many areas from functional programming to automatic theorem proving and computer algebra This 2003 book starts at an

elementary level with the earlier chapters providing a foundation for the rest of the work Much of the advanced material appeared here for the first time in book form Subjects treated include orthogonality termination completion lambda calculus higher order rewriting infinitary rewriting and term graph rewriting Many exercises are included with selected solutions provided on the web A comprehensive bibliography makes this book ideal both for teaching and research A chapter is included presenting applications of term rewriting systems with many pointers to actual implementations **Functional and Logic Programming** ,2001 **Computer Aided Systems Theory - EUROCAST 2001** Roberto Moreno-Diaz,Bruno Buchberger,Jose-Luis Freire,2003-08-14 The concept of CAST as Computer Aided Systems Theory was introduced by F Pichler in the late 1980s to include those computer theoretical and practical developments as tools to solve problems in System Science It was considered as the third component the other two being CAD and CAM necessary to build the path from Computer and Systems Sciences to practical developments in Science and Engineering The University of Linz organized the first CAST workshop in April 1988 which demonstrated the acceptance of the concepts by the scientific and technical community Next the University of Las Palmas de Gran Canaria joined the University of Linz to organize the first international meeting on CAST Las Palmas February 1989 under the name EUROCAST 89 This was a very successful gathering of systems theorists computer scientists and engineers from most European countries North America and Japan It was agreed that EUROCAST international conferences would be organized every two years alternating between Las Palmas de Gran Canaria and a continental European location Thus successive EUROCAST meetings have taken place in Krems 1991 Las Palmas 1993 Innsbruck 1995 Las Palmas 1997 and Vienna 1999 in addition to an extra European CAST Conference in Ottawa in 1994

Computer Aided Systems Theory - EUROCAST 2001 Roberto Moreno-Díaz,Bruno Buchberger,2001-11-28 This book constitutes the thoroughly refereed post proceedings of the 8th International Workshop on Computer Aided Systems Theory EUROCAST 2001 held in Las Palmas de Gran Canaria Spain in February 2001 The 48 revised full papers presented together with two invited papers were carefully selected during two rounds of reviewing and revision The book offers topical sections on computer aided systems theory mathematical and logical formalisms information and decision complexity neural like computation automation and control computer algebra and automated theorem proving and functional programming and lambda calculus

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