

PROGRESS IN THEORETICAL COMPUTER SCIENCE

Christian Prehofer

**Solving Higher-Order
Equations
From Logic to Programming**

Birkhäuser

Solving Higher Order Equations From Logic To Programming

Vijay Chandru



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 applications higher order logic provides the necessary level of abstraction for concise and natural formulations The main assets of higher order logic are quantification 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 equational reasoning modulo higher order equations presented as rewrite rules This is followed by a systematic development from general equational reasoning 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 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

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

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 *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 **Algebraic Methodology and Software Technology** ,1995 *Functional and Logic Programming* ,2001 **Rewriting Techniques and Applications** ,2000 **Foundations of Software Technology and Theoretical Computer Science** ,1993 Principles and Practice of Declarative Programming ,2004 Constraints in Computational Logics ,1999 **Computer Aided Systems Theory** ,2001 **Mathematical Reviews** ,1999 **American Book Publishing Record** ,1997-09 **Explicit Substitutions and All That** Mauricio Ayala-Rincón,2000 Abstract Explicit substitution calculi are extensions of the lambda calculus where the substitution mechanism is internalized into the theory This feature makes them suitable for implementation and theoretical study of logic based tools such as strongly typed programming languages and proof assistant systems In this paper we explore new developments on two of the most successful styles of explicit substitution calculi the lambda sigma and lambda s subscript e calculi **Solving higher-order equations** Christian Prehofer,1995 **Theoretical Aspects of Computer Software** ,1991

The Enigmatic Realm of **Solving Higher Order Equations From Logic To Programming**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Solving Higher Order Equations From Logic To Programming** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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