Symbolic Rewriting Techniques

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Symbolic Rewriting Techniques Progreb In Computer Science And Applied Logic Volume 15

Narciso Martí-Oliet,International Workshop on Rewriting Logic and its Applications 1, 1996, Pacific Grove, Calif,José Meseguer,Elsevier (Amsterdam).

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Symbolic Rewriting Techniques Manuel Bronstein,Johannes Grabmeier,Volker Weispfenning,2012-10-23 Symbolic rewriting techniques are methods for deriving consequences from systems of equations and are of great use when investigating the structure of the solutions Such techniques appear in many important areas of research within computer algebra the Knuth Bendix completion for groups monoids and general term rewriting systems the Buchberger algorithm for Gr bner bases the Ritt Wu characteristic set method for ordinary differential equations and the Riquier Janet method for partial differential equations This volume contains invited and contributed papers to the Symbolic Rewriting Techniques workshop which was held at the Centro Stefano Franscini in Ascona Switzerland from April 30 to May 4 1995 That workshop brought together 40 researchers from various areas of rewriting techniques the main goal being the investigation of common threads and methods Following the workshops each contribution was formally refereed and 14 papers were selected for publication *Symbolic Rewriting Techniques* Manuel Bronstein,Johannes Grabmeier,Volker Weispfenning,1998 Symbolic rewriting techniques are methods for deriving consequences from systems of equations and are of great use when investigating the structure of the solutions Such techniques appear in many important areas of research within computer algebra the Knuth Bendix completion for groups monoids and general term rewriting systems the Buchberger algorithm for Gr bner bases the Ritt Wu characteristic set method for ordinary differential equations and the Riquier Janet method for partial differential equations This volume contains invited and contributed papers to the Symbolic Rewriting Techniques workshop which was held at the Centro Stefano Franscini in Ascona Switzerland from April 30 to May 4 1995 That workshop brought together 40 researchers from various areas of rewriting techniques the main goal being the investigation of common threads and methods Following the workshops each contribution was formally refereed and 14 papers were selected for publication **Rewriting Techniques and Applications** Vincent van Oostrom,2004-05-24 This book constitutes the refereed proceedings of the 15th International Conference on Rewriting Techniques and Applications RTA 2004 held in Aachen Germany in June 2004 **Rewriting Techniques and Applications** Sophie Tison,2002-07-10 This book constitutes the refereed proceedings of the 13th International Conference on Rewriting Techniques and Applications RTA 2002 held in Copenhagen Denmark in July 2002 The 20 regular papers two application papers and four system descriptions presented together with three invited contributions were carefully reviewed and selected from 49 submissions All current aspects of rewriting are addressed *Rewriting Logic and Its Applications* Kazuhiro Ogata,Narciso Martí-Oliet,2024-08-01 This book constitutes revised selected papers from the refereed proceedings of the 15th International Workshop on Rewriting Logic and Its Applications WRLA 2024 held in Luxembourg City Luxembourg during April 6 7 2024 The 11 full papers included in this book were carefully reviewed and selected from 16 submissions They focus on several topics e g foundations rewriting as a logical and semantic framework rewriting languages verification techniques applications and education **Term**

Rewriting and Applications Frank Pfenning,2006-07-26 This book constitutes the refereed proceedings of the 17th International Conference on Rewriting Techniques and Applications RTA 2006 held in Seattle WA USA in August 2006 The book presents 23 revised full papers and 4 systems description papers together with 2 invited talks and a plenary talk of the hosting FLoC conference Topics include equational reasoning system verification lambda calculus theorem proving system descriptions termination higher order rewriting and unification and more **Advanced Topics in Term Rewriting** Enno Ohlebusch,2010-12-03 Unlike current survey articles and textbooks here the so called confluence and termination hierarchies play a key role Throughout the relationships between the properties in the hierarchies are reviewed and it is shown that for every implication X Y in the hierarchies the property X is undecidable for all term rewriting systems satisfying Y Topics covered include the newest techniques for proving termination of rewrite systems a comprehensive chapter on conditional term rewriting systems a state of the art survey of modularity in term rewriting and a uniform framework for term and graph rewriting as well as the first result on conditional graph rewriting *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 *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 *RTA 2008* Andrei Voronkov,2008-07-04 This book constitutes the refereed proceedings of the 19th International Conference on Rewriting Techniques and Applications RTA 2008 held in Hagenberg Austria July 15 17 in June 2008 as part of the RISC Summer 2008 The 30 revised full papers presented were carefully reviewed and selected from 57 initial submissions The papers cover current research on all aspects of rewriting including typical areas of interest such as applications foundational issues frameworks implementations and semantics Rewriting Techniques and Applications Nachum Dershowitz,1989

Rewriting has always played an important role in symbolic manipulation and automated deduction systems The theory of rewriting is an outgrowth of Combinatory Logic and the Lambda Calculus Applications cover broad areas in automated reasoning programming language design semantics and implementations and symbolic and algebraic manipulation The proceedings of the third International Conference on Rewriting Techniques and Applications contain 34 regular papers covering many diverse aspects of rewriting including equational logic decidability questions term rewriting congruence class rewriting string rewriting conditional rewriting graph rewriting functional and logic programming languages lazy and parallel implementations termination issues compilation techniques completion procedures unification and matching algorithms deductive and inductive theorem proving Gr bner bases and program synthesis It also contains 12 descriptions of implemented equational reasoning systems Anyone interested in the latest advances in this fast growing area should read this volume   Rewriting Techniques and Applications Claude Kirchner,2015-03-19 This volume contains the proceedings of RTA 93 the fifth International Conference on Rewriting Techniques and Applications held in Montreal Canada in June 1993 The volume includes three invited lectures Rewrite techniques in theorem proving L Bachmair Proving properties of typed lambda terms realizability covers and sheaves J Gallier and On some algorithmic problems for groups and monoids S J Adian together with 29 selected papers 6 system descriptions and a list of open problems in the field The papers covermany topics term rewriting termination graph rewriting constraint solving semantic unification disunification and combination higher order logics and theorem proving with several papers on distributed theorem proving theorem proving with constraints and completion   **Rewriting Logic and Its Applications** Narciso Martí-Oliet,International Workshop on Rewriting Logic and its Applications 1, 1996, Pacific Grove, Calif,José Meseguer,Elsevier (Amsterdam).,2002   Rewriting Techniques and Applications Ralf Treinen,2009-06-19 This book constitutes the refereed proceedings of the 20th International Conference on Rewriting Techniques and Applications RTA 2009 held in Bras lia Brazil during June 29 July 1 2009 The 22 revised full papers and four system descriptions presented were carefully reviewed and selected from 59 initial submissions The papers cover current research on all aspects of rewriting including typical areas of interest such as applications foundational issues frameworks implementations and semantics   **Rewriting Techniques and Applications** Leo Bachmair,2006-12-30 This book constitutes the refereed proceedings of the 11th International Conference on Rewriting Techniques and Applications RTA 2000 held in Norwich UK in July 2000 The 15 revised full papers and three system descriptions presented together with two invited contributions were carefully reviewed and selected from 44 submissions All current aspects of rewriting are addressed   *Rewriting Techniques and Applications* Ronald V. Book,2014-01-15   **Rewriting Techniques** Hassan Aït-Kaci,Maurice Nivat,2014-05-10 Resolution of Equations in Algebraic Structures Volume 2 Rewriting Techniques is a collection of papers dealing with the construction of canonical rewrite systems constraint handling in logic programming and completion algorithms for conditional rewriting systems Papers discuss the Knuth Bendix completion method which

constructs a complete system for a given set of equations including extensions of the method dealing with termination unfailing completion and associative communicative completion One paper examines the various practical techniques that can be used to extend Prolog as a constraint solver particularly on techniques that solve boolean equations imposing inequality disequality and finitary domain constraints on variables Another paper presents a sufficient condition for confluence of conditional rewriting and a practical unification algorithm modulo conditional rewriting through the notion of conditional narrowing One paper analyzes the possibility of using completion for inductive proofs in the initial algebra of an equational variety without explicit induction Another papers discusses solving systems of word equations in the free monoid and the free group where a solution is defined as a word homomorphism Programmers mathematicians students and instructors involved in computer science and computer logic will find this collection valuable   Rewriting Techniques and Applications Paliath Narendran,Michael Rusinowitch,2003-07-31 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   **Rewriting Techniques and Applications** Leo Bachmair,2000-06-28 This book constitutes the refereed proceedings of the 11th International Conference on Rewriting Techniques and Applications RTA 2000 held in Norwich UK in July 2000 The 15 revised full papers and three system descriptions presented together with two invited contributions were carefully reviewed and selected from 44 submissions All current aspects of rewriting are addressed   **Rewriting Logic and Its Applications** Kazuhiro Ogata,Narciso Martí-Oliet,2024 This book constitutes revised selected papers from the refereed proceedings of the 15th International Workshop on Rewriting Logic and Its Applications WRLA 2024 held in Luxembourg City Luxembourg during April 6 7 2024 The 11 full papers included in this book were carefully reviewed and selected from 16 submissions They focus on several topics e g foundations rewriting as a logical and semantic framework rewriting languages verification techniques applications and education

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