

Advanced Topics in Term Rewriting

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Rolf T. Nossum



Advanced Topics In Term Rewriting:

Advanced Topics in Term Rewriting Enno Ohlebusch, 2002-04-12 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 $X \rightarrow Y$ 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

Advanced Topics in Term Rewriting Enno Ohlebusch, 2013-04-17 Term rewriting techniques are applicable in various fields of computer science in software engineering e.g. equationally specified abstract data types in programming languages e.g. functional logic programming in computer algebra e.g. symbolic computations Grabner bases in program verification e.g. automatically proving termination of programs in automated theorem proving e.g. equational unification and in algebra e.g. Boolean algebra group theory In other words term rewriting has applications in practical computer science theoretical computer science and mathematics Roughly speaking term rewriting techniques can successfully be applied in areas that demand efficient methods for reasoning with equations One of the major problems one encounters in the theory of term rewriting is the characterization of classes of rewrite systems that have a desirable property like confluence or termination If a term rewriting system is confluent then the normal form of a given term is unique A terminating rewrite system does not permit infinite computations that is every computation starting from a term must end in a normal form Therefore in a system that is both terminating and confluent every computation leads to a result that is unique regardless of the order in which the rewrite rules are applied This book provides a comprehensive study of termination and confluence as well as related properties

Advances in Logic Based Intelligent Systems Kazumi Nakamatsu, Jairo Minoro Abe, 2005 LAPTEC 2005 promoted the discussion and interaction between researchers and practitioners focused on both theoretical and practical disciplines concerning logics applied to technology with diverse backgrounds including all kinds of intelligent systems having classical or non classical logics as underlying common matters

Term Rewriting and Applications Jürgen Giesl, 2005-04-07 This book constitutes the refereed proceedings of the 16th International Conference on Rewriting Techniques and Applications RTA 2005 held in Nara Japan in April 2005 The 29 revised full papers and 2 systems description papers presented together with 5 invited articles were carefully reviewed and selected from 79 submissions All current issues in Rewriting are addressed ranging from foundational and methodological issues to applications in various contexts due to the fact that the first RTA conference was held 20 years ago the conference offered 3 invited historical papers 2 of which are included in this proceedings

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

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

Advanced Topics in Artificial Intelligence Rolf T. Nossum, 1988-12-28 Organized by European Coordinating Committee for AI ECCAI

Rewriting Techniques and Applications Ralf Treinen, 2009-06-09 This book constitutes the refereed proceedings of the 20th International Conference on Rewriting Techniques and Applications RTA 2009 held in Brasilia 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

Processes, Terms and Cycles: Steps on the Road to Infinity Aart Middeldorp, 2005-12-13 This Festschrift is dedicated to Jan Willem Klop on the occasion of his 60th birthday The volume comprises a total of 23 scientific papers by close friends and colleagues written specifically for this book The papers are different in nature some report on new research others have the character of a survey and again others are mainly expository Every contribution has been thoroughly refereed at least twice In many cases the first round of referee reports led to significant revision of the original paper which was again reviewed The articles especially focus upon the lambda calculus term rewriting and process algebra the fields to which Jan Willem Klop has made fundamental contributions

Rewriting Techniques and Applications Vincent van Oostrom, 2004-08-24 This volume contains the proceedings of the 15th International Conference on Rewriting Techniques and Applications RTA 2004 which was held June 2 5 2004 at the RWTH Aachen in Germany RTA is the major forum for the presentation of research on all aspects of rewriting Previous RTA conferences took place in Dijon 1985 Bordeaux 1987 Chapel Hill 1989 Como 1991 Montreal 1993 Kaiserslautern 1995 Rutgers 1996 Sitges 1997 Tsukuba 1998 Trento 1999 Norwich 2000 Utrecht 2001 Copenhagen 2002 and Valencia 2003 The program committee selected 19 papers for presentation including ve system descriptions from a total of 43 submissions In addition there were

invited talks by Neil Jones Aart Middeldorp and Robin Milner Many people helped to make RTA 2004 a success I am grateful to the members of the program committee and the external referees for reviewing the submissions and maintaining the high standards of the RTA conferences It is a great pleasure to thank the conference chair Jurgen Giesl and the other members of the local organizing committee They were in charge of the local organization of all events partaking in the Federated Conference on Rewriting Deduction and Programming RDP Apart from RTA 2004 these events were 2nd International Workshop on Higher Order Rewriting Delia Kesner Femke van Raamsdonk and Joe Wells 5th International Workshop on Rule Based Programming Slim Abdennadher and Christophe Ringeissen 13th International Workshop on Functional and Constraint Logic Programming Herbert Kuchen IFIP Working Group 1

Whispering the Secrets of Language: An Psychological Journey through **Advanced Topics In Term Rewriting**

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