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5th Conference on Automated Deduction

Les Arcs, France, 1980

Edited by W. Bibel and R. Kowalski



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Fifth Conference On Automated Deduction

Wolfgang Bibel, Robert Kowalski



Fifth Conference On Automated Deduction:

7th International Conference on Automated Deduction R. E. Shostak, 2011-05-09 The Seventh International Conference on Automated Deduction was held May 14-16 1984 in Napa California. The conference is the primary forum for reporting research in all aspects of automated deduction including the design, implementation and applications of theorem proving systems, knowledge representation and retrieval, program verification, logic programming, formal specification, program synthesis and related areas. The presented papers include 27 selected by the program committee, an invited keynote address by Jorg Siekmann and an invited banquet address by Patrick Suppes. Contributions were presented by authors from Canada, France, Spain, the United Kingdom, the United States and West Germany. The first conference in this series was held a decade earlier in Argonne, Illinois. Following the Argonne conference were meetings in Oberwolfach, West Germany 1976, Cambridge, Massachusetts 1977, Austin, Texas 1979, Les Arcs, France 1980 and New York, New York 1982. Program Committee: P. Andrews (CMU), W. W. Bledsoe (UTexas), past chairman, L. Henschen (Northwestern), G. Huet (INRIA), D. Loveland (Duke), past chairman, R. Milner (Edinburgh), R. Overbeek (Argonne), T. Pietrzykowski (Acadia), D. Plaisted (U. Illinois), V. Pratt (Stanford), R. Shostak (SRI), chairman, J. Siekmann (U. Kaiserslautern), R. Waldinger (SRI). Local Arrangements: R. Schwartz (SRI). iv CONTENTS Monday Morning Universal Unification Keynote Address Jorg H. Siekmann (FRG) **5th Conference on Automated Deduction** Wolfgang Bibel, R. Kowalski, 2014-01-15 **Fifth Conference on Automated Deduction, Les Arcs, France, July 8-11, 1980** W. Bibel, Robert Kowalski, 1980 *10th International Conference on Automated Deduction* Mark E. Stickel, 1990 This volume contains the papers presented at the 10th International Conference on Automated Deduction CADE 10. CADE is the major forum at which research on all aspects of automated deduction is presented. Although automated deduction research is also presented at more general artificial intelligence conferences, the CADE conferences have no peer in the concentration and quality of their contributions to this topic. The papers included range from theory to implementation and experimentation from propositional to higher order calculi and nonclassical logics; they refine and use a wealth of methods including resolution, paramodulation, rewriting, completion, unification and induction and they work with a variety of applications including program verification, logic programming, deductive databases and theorem proving in many domains. The volume also contains abstracts of 20 implementations of automated deduction systems. The authors of about half the papers are from the United States; many are from Western Europe and many too are from the rest of the world. The proceedings of the 5th, 6th, 7th, 8th and 9th CADE conferences are published as Volumes 87, 138, 170, 230, 310 in the series Lecture Notes in Computer Science. PUBLISHER S WEBSITE *5th Conference on Automated Deduction, Les Arcs, July 8-11, 1980*, 1980 **Logic at Botik '89** Albert R. Meyer, Michael A. Taitslin, 1989-06-07 The present volume contains the proceedings of Logic at Botik '89, a symposium on logical foundations of computer science organized by the Program Systems Institute of the USSR Academy of Sciences and held at Pereslavl Zalesky, USSR, July 3-8, 1989. The scope of the symposium was very broad; the topics of interest

were complexity of formal systems constructive mathematics in computer science denotational and operational semantics of programs descriptive complexity dynamic and algorithmic logics and schematology formal tools to describe concurrent computations lambda calculus and related topics foundations of logic programming logical foundations of database theory logics for knowledge representation modal and temporal logics type theory in programming and verification of programs Thus the papers in this volume represent many interesting trends in logical foundations of Computer Science ranging from purely theoretical research to practical applications of theory

Automated Theorem Proving Wolfgang Bibel, 2013-06-29 Since both the contents and the structure of the book appeared to be successful only minor changes were made In particular some recent work in ATP has been incorporated so that the book continues to reflect the state of the art in the field The most significant change is in the quality of the layout including the removal of a number of inaccuracies and typing errors R Caferra E Eder F van der Linden and J Muller have caught various minor errors P Haddawy and S T Pope have provided many stylistic improvements of the English text Last not least A Bentrup and W Fischer have produced the beautiful layout The extensive work of typesetting was financially supported within ESPRIT project 415 Munchen September 1986 W Bibel

PREFACE Among the dreams of mankind is the one dealing with the mechanization of human thought As the world today has become so complex that humans apparently fail to manage it properly with their intellectual gifts the realization of this dream might be regarded even as something like a necessity On the other hand the incredible advances in computer technology let it appear as a real possibility

Rippling: Meta-Level Guidance for Mathematical Reasoning Alan Bundy, 2005-06-30 Rippling is a radically new technique for the automation of mathematical reasoning It is widely applicable whenever a goal is to be proved from one or more syntactically similar givens It was originally developed for inductive proofs where the goal was the induction conclusion and the givens were the induction hypotheses It has proved to be applicable to a much wider class of tasks from summing series via analysis to general equational reasoning The application to induction has especially important practical implications in the building of dependable IT systems and provides solutions to issues such as the problem of combinatorial explosion Rippling is the first of many new search control techniques based on formula annotation some additional annotated reasoning techniques are also described here This systematic and comprehensive introduction to rippling and to the wider subject of automated inductive theorem proving will be welcomed by researchers and graduate students alike

Automated Theorem Proving: After 25 Years W. W. Bledsoe, Donald W. Loveland, 1984

Logic, Algebra, and Computation Friedrich L. Bauer, 2012-12-06 The Marktoberdorf Summer Schools on Informatics were started in 1970 with the intention to convene every second or third year a group of top researchers in computing devoted to preach their most recent results to an elite of advanced students young and most promising people and prepared to stand their questions criticism and suggestions The themes of these Advanced Study Institutes under the sponsorship of the NATO Scientific Affairs Division varied slightly over the years oscillating more or less around Programming Methodology as the

following list shows 1970 Data Structures and Computer Systems 1971 Program Structures and Fundamental Concepts of Programming 1973 Structured Programming and Programmed Structures 1975 Language Hierarchies and Interfaces 1978 Program Construction 1981 Theoretical Foundations of Programming Methodology 1984 Control Flow and Data Flow Concepts of Distributed Programming 1986 Logic of Programming and Calculi of Discrete Design 1988 Constructive Methods in Computing Science 1989 Logic Algebra and Computation Logic Algebra and Computation is the theme of the summer school to which this volume is devoted It is the tenth in succession but it is also the first in a new series the blue series that is intended to alternate in future with the traditional the red series arrangement in fact the tenth summer school in the red series with the title Programming and Mathematical Method held in 1990 was the subject of celebrating both its serial number and the twenty years of Marktoberdorf Summer Schools altogether *Languages and Compilers for Parallel Computing* Utpal Banerjee, David Gelernter, Alex Nicolau, David A. Padua, 1992 This volume contains the proceedings of the Fourth Workshop on Languages and Compilers for Parallel Computing held in Santa Clara California in August 1991 The purpose of the workshop held every year since 1988 is to bring together the leading researchers on parallel programming language design and compilation techniques for parallel computers The papers in this book cover several important topics including 1 languages and structures to represent programs internally in the compiler 2 techniques to analyze and manipulate sequential loops in order to generate a parallel version 3 techniques to detect and extract fine grain parallelism 4 scheduling and memory management issues in automatically generated parallel programs 5 parallel programming language designs and 6 compilation of explicitly parallel programs Together the papers give a good overview of the research projects underway in 1991 in this field **Automated Deduction - CADE-15** Claude Kirchner, Helene Kirchner, 1998-06-24 This book constitutes the refereed proceedings of the 15th International Conference on Automated Deduction CADE 15 held in Lindau Germany in July 1998 The volume presents three invited contributions together with 25 revised full papers and 10 revised system descriptions these were selected from a total of 120 submissions The papers address all current issues in automated deduction and theorem proving based on resolution superposition model generation and elimination or connection tableau calculus in first order higher order intuitionistic or modal logics and describe applications to geometry computer algebra or reactive systems *Logic Programming* I. Balbin, K. Lecot, 2012-12-06 Logic Programming was effectively defined as a discipline in the early seventies It is only during the early to mid eighties that books conferences and journals devoted entirely to Logic Programming began to appear Consequently much of the work done during this first crucial decade in Marseilles Edinburgh London Budapest and Stockholm to name a few is often overlooked or difficult to trace There are now two main regular conferences on Logic Programming and at least five journals The Journal of Logic Programming New Generation Computing Automated Reasoning The Journal of Symbolic Computation and Future Generation Computer Systems Logic Programming however has its roots in Automated Theorem Proving and via the expanding area of expert systems

strongly influences researchers in such varied fields as Civil Engineering Chemistry Law etc Consequently many papers related to Logic Programming appear in a wide variety of journals and proceedings of conferences in other disciplines This is particularly true of Computer Science where a revolution is taking place in hardware design programming languages and more recently databases One cannot overestimate the importance of such a bibliography 5th CONFERENCE ON

AUTOMATED DEDUCTION Wolfgang Bibel, Robert Kowalski, 1980 **From Computational Logic to Computational Biology** Domenico Cantone, Alfredo Pulvirenti, 2024-03-15 Alfredo Ferro's impact on information technology has traversed diverse domains encompassing Computational Logic Data Mining Bioinformatics and Complex Systems After first studying Mathematics at the University of Catania he received a Ph D in Computer Science from NYU in 1981 working under the supervision of Jacob Theodor Jack Schwartz He returned to the University of Catania where he established the Computer Science undergraduate program served as the coordinator of the Ph D program in Computer Science cofounded the Ph D program in Biology Human Genetics and Bioinformatics and retired as a full professor in 2021 Alfredo's academic career as a computer scientist is characterized by two distinct research phases Computational Logic until approximately 1995 followed by a notable focus on Data Mining and Bioinformatics The contributions in this volume reflect the quality and the scope of his personal and collaborative successes He also taught and inspired many excellent scientists A pioneering initiative was to establish summer schools for Ph D students in 1989 leading to the so called Lipari School now the J T Schwartz International School for Scientific Research where Alfredo continues to serve as director This prestigious series includes schools focused on Computer Science Complex Systems and Computational Biology featuring world class scientists as lecturers and mentors

Rewriting Techniques Hassan Ait-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 unifying 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 paper 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 ESOP 86

Bernard Robinet, 1986-03 **Computational Logic: Logic Programming and Beyond** Antonis C. Kakas, Fariba

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 tre 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 **The Generic**

Development Language Deva Matthias Weber,Martin Simons,Christine Lafontaine,1993-10-28 This book summarizes work done by the authors under the Esprit Tool Use project 1985 1990 at GMD in Karlsruhe and at Berlin University of Technology It provides a comprehensive description of the generic development language Deva designed by the authors Much of the research reported in this monograph is inspired by the work of Michel Sintzoff on formal program development he contributed an enlightening Foreword Deva is essentially a typed functional language with certain deduction rules The difference with ordinary languages is of course the application domain the types serve here to express propositions such as specifications or programs rather than just data classes Its practical applicability was tested on several non trivial case studies The whole book is written using the DVWEB system a WEB for Deva beeing implemented at the Berlin University of Technology Leveraging Applications of Formal Methods, Verification and Validation. Software Engineering

Methodologies Tiziana Margaria,Bernhard Steffen,2024-10-25 The ISoLA 2024 proceedings constitutes contributions of the associated events held at the 12th International Symposium on Leveraging Applications of Formal Methods ISoLA 2024 which took place in Crete Greece in October 2024 ISoLA 2024 provides a forum for developers users and researchers to discuss issues related to the adoption and use of rigorous tools and methods for the specification analysis verification certification construction test and maintenance of systems from the point of view of their different application domains

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