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Program Development in Computational Logic

A Decade of Research Advances
in Logic-Based Program Development



Springer

Program Development In Computational Logic

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Program Development In Computational Logic:

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it is fair to say that so far the focus has largely been on programming in the small So the future challenge is to apply or extend these techniques to programming in the large in order to tackle software engineering in the real world Returning to this volume our aim is to present a collection of papers that reflect significant research efforts over the past 10 years These papers cover the whole development process specification synthesis analysis transformation and specialization as well as semantics and systems

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Computational Logic: Logic Programming and Beyond Antonis C. Kakas, Robert Kowalski, 2002-07-12 This volume spans the whole field of computational logic seen from the point of view of logic programming The topics addressed range from issues concerning the development of programming languages in logic and the application of computational logic

to real life problems to philosophical studies of the field at the other end of the spectrum The articles presented cover the contributions of computational logic to databases and artificial intelligence with particular emphasis on automated reasoning reasoning about actions and change natural languages and learning Together with its companion volume LNAI 2407 this book commemorates the 60th birthday of Bob Kowalski as one of the founders of and contributors to computational logic

Interactive Theorem Proving and Program Development Yves Bertot, Pierre Castéran, 2013-03-14 Coq is an interactive proof assistant for the development of mathematical theories and formally certified software It is based on a theory called the calculus of inductive constructions a variant of type theory This book provides a pragmatic introduction to the development of proofs and certified programs using Coq With its large collection of examples and exercises it is an invaluable tool for researchers students and engineers interested in formal methods and the development of zero fault software

Computational Logic Dov M. Gabbay, Jörg H. Siekmann, John Woods, 2014-12-09 Handbook of the History of Logic brings to the development of logic the best in modern techniques of historical and interpretative scholarship Computational logic was born in the twentieth century and evolved in close symbiosis with the advent of the first electronic computers and the growing importance of computer science informatics and artificial intelligence With more than ten thousand people working in research and development of logic and logic related methods with several dozen international conferences and several times as many workshops addressing the growing richness and diversity of the field and with the foundational role and importance these methods now assume in mathematics computer science artificial intelligence cognitive science linguistics law and many engineering fields where logic related techniques are used inter alia to state and settle correctness issues the field has diversified in ways that even the pure logicians working in the early decades of the twentieth century could have hardly anticipated Logical calculi which capture an important aspect of human thought are now amenable to investigation with mathematical rigour and computational support and fertilized the early dreams of mechanised reasoning Calculemus The Dartmouth Conference in 1956 generally considered as the birthplace of artificial intelligence raised explicitly the hopes for the new possibilities that the advent of electronic computing machinery offered logical statements could now be executed on a machine with all the far reaching consequences that ultimately led to logic programming deduction systems for mathematics and engineering logical design and verification of computer software and hardware deductive databases and software synthesis as well as logical techniques for analysis in the field of mechanical engineering This volume covers some of the main subareas of computational logic and its applications Chapters by leading authorities in the field Provides a forum where philosophers and scientists interact Comprehensive reference source on the history of logic

Computational Logic: Logic Programming and Beyond Robert Kowalski, 2002-07-12 The book contains the proceedings of the 12th European Testis Workshop and gives an excellent overview of the state of the art in testicular research The chapters are written by leading scientists in the field of male reproduction who were selected on the basis of their specific area of

research The book covers all important aspects of testicular functioning for example Sertoli and Leydig cell functioning spermatogonial development and transplanted meiosis and spermiogenesis Even for those investigators who were not present at the workshop this volume provides a clear impression of the topics discussed during that meeting

Program Development by Specification and Transformation Berthold Hoffmann, Bernd Krieg-Brückner, 1993-08-30 This volume gives a coherent presentation of the outcome of the project PROSPECTRA PROgram development by SPECification and TRAnsformation that aims to provide a rigorous methodology for developing correct software and a comprehensive support system The results are substantial a theoretically well founded methodology covering the whole development cycle a very high level specification and transformation language family allowing meta program development and formalization of the development process itself and a prototype development system supporting structure editing incremental static semantic checking interactive context sensitivetransformation and verification development of transformation meta programs version management and so on with an initial library of specifications and a sizeable collection of implemented transformations The intended audience for this documentation is the academic community working in this and related areas and those members of the industrial community interested in the use of formal methods

Mathematical Methods in Program Development Manfred Broy, Birgit Schieder, 2012-12-06 Modern information processing systems show such complex properties as distribution parallelism interaction time dependency and nondeterminism For critical applications mathematical methods are needed to model the systems and to support their development and validation Impressive progress in mathematical methods for programming software systems makes it possible to think about unifying the different approaches This book gives a comprehensive overview of existing methods and presents some of the most recent results in applying them The main topics are advanced programming techniques foundations of systems engineering mathematical support methods and application of the methods The approaches presented are illustrated by examples and related to other approaches

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Types for Proofs and Programs Herman Geuvers, Freek Wiedijk, 2003-04-28 This book constitutes the thoroughly refereed post proceedings of the Second International Workshop of the TYPES Working Group TYPES 2002 held in Berg en Dal The Netherlands in April 2002 The 18 revised full papers presented were carefully selected during two rounds of reviewing and improvement All current issues in type theory and type

systems and their applications to programming systems design and proof theory are addressed Among the systems dealt with are Coq and Isar HOL *Automatic Program Development* Olivier Danvy,Fritz Henglein,Harry Mairson,Alberto Pettorossi,2008-01-12 This work a tribute to renowned researcher Robert Paige is a collection of revised papers published in his honor in the Higher Order and Symbolic Computation Journal in 2003 and 2005 Among them there are two key papers a retrospective view of his research lines and a proposal for future studies in the area of the automatic program derivation The book also includes some papers by members of the IFIP Working Group 2.1 of which Bob was an active member

Mathematical Reviews ,2006 **Type Theory and Functional Programming** Simon Thompson,1991 This book explores the role of Martin Lof's constructive type theory in computer programming The main focus of the book is how the theory can be successfully applied in practice Introductory sections provide the necessary background in logic lambda calculus and constructive mathematics and exercises and chapter summaries are included to reinforce understanding

Euroabstracts ,1994 Proceedings of the ... ACM SIGPLAN Symposium on Partial Evaluation and Semantics-Based Program Manipulation ,2004 **Computational Models of Speech Pattern Processing** Keith Ponting,1999-03-11 Proceedings of the NATO Advanced Study Institute on Computational Models of Speech Pattern Processing held in St Helier Jersey UK July 7-18 1997 **Computational Logic – CL 2000** John Lloyd,Veronica Dahl,Ulrich Furbach,Manfred Kerber,Kung-Kiu Lau,Catuscia Palamidessi,Luis M. Pereira,Yehoshua Sagiv,Peter J. Stuckey,2000-07-17 These are the proceedings of the First International Conference on Computational Logic CL 2000 which was held at Imperial College in London from 24th to 28th July 2000 The theme of the conference covered all aspects of the theory implementation and application of computational logic where computational logic is to be understood broadly as the use of logic in computer science The conference was collocated with the following events 6th International Conference on Rules and Objects in Databases DOOD 2000 10th International Workshop on Logic based Program Synthesis and Transformation LOPSTR 2000 10th International Conference on Inductive Logic Programming ILP 2000 CL 2000 consisted of seven streams Program Development LOPSTR 2000 Logic Programming Theory and Extensions Constraints Automated Deduction Putting Theory into Practice Knowledge Representation and Non monotonic Reasoning Database Systems DOOD 2000 Logic Programming Implementations and Applications The LOPSTR 2000 workshop constituted the program development stream and the DOOD 2000 conference constituted the database systems stream Each stream had its own chair and program committee which autonomously selected the papers in the area of the stream Overall 176 papers were submitted of which 86 were selected to be presented at the conference and appear in these proceedings The acceptance rate was uniform across the streams In addition LOPSTR 2000 accepted about 15 extended abstracts to be presented at the conference in the program development stream **Application and Theory of Petri Nets** ,2004 **U.S. Government Research & Development Reports** ,1965

The World Yearbook of New Generation Computing Research and Development Igor Aleksander,Ian Benson,1988

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