

Masami Hagiya
John C. Mitchell (Eds.)

Theoretical Aspects of Computer Software

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Sendai, Japan, April 1994
Proceedings

Volume 1



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Theoretical Aspects Of Computer Software

Martin Abadi, Takayasu Ito



Theoretical Aspects Of Computer Software:

International conference on theoretical aspects of computer software, 1991 **International Conference on Theoretical Aspects of Computer Software** TACS, Mariangiola Dezani-Ciancaglini, 1994 **Theoretical Aspects of Computer Software** Masami Hagiya, John C. Mitchell, 1994-03-30 This volume contains the proceedings of the Second International Symposium on Theoretical Aspects of Computer Science held at Tohoku University Japan in April 1994 This top level international symposium on theoretical computer science is devoted to theoretical aspects of programming programming languages and system and parallel and distributed computation The papers in the volume are grouped into sessions on lambda calculus and programming automated deduction functional programming objects and assignments concurrency term rewriting and process equivalence type theory and programming algebra categories and linear logic and subtyping intersection and union types The volume also includes seven invited talks and two open lectures Theoretical Aspects of Computer Software, 1991 *Theoretical Aspects of Computer Software* Takayasu Itō, Albert R. Meyer, 1991-08-28 TACS 91 is the first International Conference on Theoretical Aspects of Computer Science held at Tohoku University Japan in September 1991 This volume contains 37 papers and an abstract for the talks presented at the conference TACS 91 focused on theoretical foundations of programming and theoretical aspects of the design analysis and implementation of programming languages and systems The following range of topics is covered logic proof specification and semantics of programs and languages theories and models of concurrent parallel and distributed computation constructive logic category theory and type theory in computer science theory based systems for specifying synthesizing transforming testing and verifying software Theoretical Aspects of Computer Software Martin Abadi, Takayasu Ito, 1997-08-27 Content Description Includes bibliographical references and index Theoretical Aspects of Object-oriented Programming Carl A. Gunter, John C. Mitchell, 1994 Although the theory of object oriented programming languages is far from complete this book brings together the most important contributions to its development to date focusing in particular on how advances in type systems and semantic models can contribute to new language designs The fifteen chapters are divided into five parts Objects and Subtypes Type Inference Coherence Record Calculi and Inheritance The chapters are organized approximately in order of increasing complexity of the programming language constructs they consider beginning with variations on Pascal and Algol like languages developing the theory of illustrative record object models and concluding with research directions for building a more comprehensive theory of object oriented programming languages Part I discusses the similarities and differences between objects and algebraic style abstract data types and the fundamental concept of a subtype Parts II IV are concerned with the record model of object oriented languages Specifically these chapters discuss static and dynamic semantics of languages with simple object models that include a type or class hierarchy but do not explicitly provide what is often called dynamic binding Part V considers extensions and modifications to record object models moving closer to the full complexity

of practical object oriented languages Carl A Gunter is Professor in the Department of Computer and Information Science at the University of Pennsylvania John C Mitchell is Professor in the Department of Computer Science at Stanford University

Theoretical Aspects of Computer Software ,1997

Theoretical Aspects of Computer Science Gholamreza B.

Khosrovshahi,Ali Shokoufandeh,Amin Shokrollahi,2014-01-15

Theoretical Aspects of Computer Software ,1997

Theoretical Aspects of Computer Software Naoki Kobayashi,Benjamin C. Pierce,2003-06-30 This volume constitutes the proceedings of the Fourth International Symposium on Theoretical Aspects of Computer Software TACS 2001 held at Tohoku University Sendai Japan in October 2001 The TACS symposium focuses on the theoretical foundations of programming and their applications As this volume shows TACS is an international symposium with participants from many different institutions and countries TACS 2001 was the fourth symposium in the TACS series following TACS 91 TACS 94 and TACS 97 whose proceedings were published as Volumes 526 789 and 1281 respectively of Springer Verlag's Lecture Notes in Computer Science series The TACS 2001 technical program consisted of invited talks and contributed talks In conjunction with this program there was a special open lecture by Benjamin Pierce this lecture was open to non registrants TACS 2001 benefited from the efforts of many people in particular members of the Program Committee and the Organizing Committee Our special thanks go to the Program Committee Co chairs Naoki Kobayashi Tokyo Institute of Technology Benjamin Pierce University of Pennsylvania

Types and Programming Languages Benjamin C. Pierce,2002-01-04

A comprehensive introduction to type systems and programming languages A type system is a syntactic method for automatically checking the absence of certain erroneous behaviors by classifying program phrases according to the kinds of values they compute The study of type systems and of programming languages from a type theoretic perspective has important applications in software engineering language design high performance compilers and security This text provides a comprehensive introduction both to type systems in computer science and to the basic theory of programming languages The approach is pragmatic and operational each new concept is motivated by programming examples and the more theoretical sections are driven by the needs of implementations Each chapter is accompanied by numerous exercises and solutions as well as a running implementation available via the Web Dependencies between chapters are explicitly identified allowing readers to choose a variety of paths through the material The core topics include the untyped lambda calculus simple type systems type reconstruction universal and existential polymorphism subtyping bounded quantification recursive types kinds and type operators Extended case studies develop a variety of approaches to modeling the features of object oriented languages

Theorem Proving in Higher Order Logics Richard J. Boulton,Paul B. Jackson,2003-06-30

This volume constitutes the proceedings of the 14th International Conference on Theorem Proving in Higher Order Logics TPHOLs 2001 held 3 6 September 2001 in Edinburgh Scotland TPHOLs covers all aspects of theorem proving in higher order logics as well as related topics in theorem proving and verification TPHOLs 2001 was collocated with the 11th Advanced Research Working

Conference on Correct Hardware Design and Verification Methods CHARME 2001 This was held 4-7 September 2001 in nearby Livingston Scotland at the Institute for System Level Integration and a joint half day session of talks was arranged for the 5th September in Edinburgh An excursion to Traquair House and a banquet in the Playfair Library of Old College University of Edinburgh were also jointly organized The proceedings of CHARME 2001 have been published as volume 2144 of Springer Verlag's Lecture Notes in Computer Science series with Tiziana Margaria and Tom Melham as editors Each of the 47 papers submitted in the full research category was refereed by at least 3 reviewers who were selected by the Program Committee Of these submissions 23 were accepted for presentation at the conference and publication in this volume In keeping with tradition TPHOLs 2001 also offered a venue for the presentation of work in progress where researchers invite discussion by means of a brief preliminary talk and then discuss their work at a poster session A supplementary proceedings containing associated papers for work in progress was published by the Division of Informatics at the University of Edinburgh

Theoretical Aspects of Computer Software Masami Hagiya, John C. Mitchell, 1994-03-30 This volume contains the proceedings of the Second International Symposium on Theoretical Aspects of Computer Science held at Tohoku University Japan in April 1994 This top level international symposium on theoretical computer science is devoted to theoretical aspects of programming languages and system and parallel and distributed computation The papers in the volume are grouped into sessions on lambda calculus and programming automated deduction functional programming objects and assignments concurrency term rewriting and process equivalence type theory and programming algebra categories and linear logic and subtyping intersection and union types The volume also includes seven invited talks and two open lectures

Theoretical aspects of computer software Martin Abadi, Takayasu Ito, 1997

Theoretical Aspects of Software Engineering, 2008-01-01 The 39 papers selected for the June 2008 symposium present new approaches to model checking program analysis service oriented computing verification and validation software testing logic systems and specifications The contributors propose a bigraphical model of WS-BPEL workflow semantics of peer and service behavior automatic verification of self stabilizing population protocols and a multidimensional model for mum effect in offshore outsourcing Other topics include test data generation for C programs transformation of BPEL processes to Petri nets symmetry reduction for B and Z models and permission interpretation for ownership types No subject index is provided

Theoretical Aspects of Computer Software Takayasu Ito, Albert R. Meyer, 2014-03-12 TACS 91 is the first International Conference on Theoretical Aspects of Computer Science held at Tohoku University Japan in September 1991 This volume contains 37 papers and an abstract for the talks presented at the conference TACS 91 focused on theoretical foundations of programming and theoretical aspects of the design analysis and implementation of programming languages and systems The following range of topics is covered logic proof specification and semantics of programs and languages theories and models of concurrent parallel and distributed computation constructive logic category theory and type theory in computer science

theory based systems for specifying synthesizing transforming testing and verifying software **Theoretical Aspects of Computer Software** Martin Abadi,Takayasu Ito,2014-03-12 This book constitutes the refereed proceedings of the Third International Symposium on Theoretical Aspects of Computer Software TACS 97 held in Sendai Japan in September 1997 The book presents 20 revised full papers selected from a total of 46 submissions Also included are seven invited papers by internationally leading scientists Among the topics addressed are action calculi polymorphisms type theory lambda calculi refinement finite transition systems model checking process algebras logical frameworks higher order logics etc

Theoretical aspects of computer software Masami Hagiya,John C. Mitchell,1994 **Conference Record of POPL '95** ,1995 Proceedings Parallel Computing

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