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C69 - ELIANNA SANAA

This book constitutes the refereed proceedings of the 9th International Static Analysis Symposium, SAS 2002, held in Madrid, Spain in September 2002. The 32 revised full papers presented were carefully reviewed and selected from 86 submissions. The papers are organized in topical sections on theory, data structure analysis, type inference, analysis of numerical problems, implementation, data flow analysis, compiler optimizations, security analyses, abstract model checking, semantics and abstract verification, and termination analysis.

This book constitutes the thoroughly refereed post-proceedings of the 15th International Workshop on the Implementation of Functional Languages, IFL 2003, held in Edinburgh, UK in September 2003. The 11 revised full papers presented were carefully selected during two rounds of reviewing and revision from 32 workshop presentations. The papers are organized in topical sections on language constructs and programming, static analysis and types, parallelism, and generic programming.

This book constitutes the refereed proceedings of the Second International Workshop on Practical Aspects of Declarative Languages, PADL 2000, held in Boston, MA, USA in January 2000. The 21 revised full papers presented were carefully reviewed and selected from a total of 36 submissions. The papers are organized in topical sections on functional programming, functional-logic programming, logic programming, innovative applications, constraint programming and constraint solving, and systems applications.

ETAPS 2006 was the ninth instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprised ?ve conferences (CC, ESOP, FASE, FOSSACS, TACAS), 18 satellite workshops (AC- CAT, AVIS, CMCS, COCV, DCC, EAAI, FESCA, FRCSS, GT-VMT, LDTA, MBT, QAPL, SC, SLAP, SPIN, TERMGRAPH, WITS and WRLA), two tutorials, and seven invited lectures (not including those that were speci?c to the satellite events). We received over 550 submissions to the ?ve conferences this year, giving an overall acc- tance rate of 23%, with acceptance rates below 30% for each conference. Congratu- tions to all the authors who made it to the ?nal programme! I hope that most of the other authorsstill founda way of participatingin this excitingevent and I hope you will continue submitting. The events that comprise ETAPS address various aspects of the system devel- ment process, including speci?cation, design, implementation, analysis and impro- ment. The languages, methodologies and tools which support these activities are all well within its scope. Di?erent blends of theory and practice are represented, with an inclination towards theory with a practical motivation on the one hand and soundly based practice on the other. Many of the issues involved in software design apply to systems in general, including hardware systems, and the emphasis on software is not intended to be exclusive.

This volume contains the proceedings of CHARME 2001, the Eleventh Advanced Research Working Conference on Correct Hardware Design and Veri?cation Methods. CHARME 2001 is the 11th in a series of working conferences devoted to the development and use of leading-edge formal techniques and tools for the design and veri?cation of hardware and hardware-like systems. Previous events in the 'CHARME' series were held in Bad Herrenalb (1999), Montreal (1997), Frankfurt (1995), Arles (1993), and Torino (1991). This series of meetings has been organized in cooperation with IFIP WG 10.5 and WG 10.2. Prior meetings, stretching backto the earliest days of formal hardware veri?cation, were held under various names in Miami (1990), Leuven (1989), Glasgow (1988), Grenoble (1986), Edinburgh (1985), and Darmstadt (1984). The convention is now well-established whereby the European CHARME conference alternates with its biennial counterpart, the International Conference on Formal Methods in Computer-Aided Design (FMCAD), which is held on even-numbered years in the USA. The conference tookplace during 4–7 September 2001 at the Institute for System Level Integration in Livingston, Scotland. It was co-hosted by the - stitute and the Department of Computing Science of Glasgow University and co-sponsored by the IFIP TC10/WG10.5 Working Group on Design and En- neering of Electronic Systems. CHARME 2001 also included a scienti?c session and social program held jointly with the 14th International Conference on Th- rem Proving in Higher Order Logics (TPHOLs), which was co-located in nearby Edinburgh.

Declarative languages build on sound theoretical bases to provide attractive frameworks for application development. These languages have been succe- fully applied to a wide variety of real--world situations including database m- agement, active networks,

software engineering, and decision-support systems. New developments in theory and implementation expose fresh opportunities. At the same time, the application of declarative languages to novel problems raises numerous interesting research issues. These well-known questions include scalability, language extensions for application deployment, and programming environments. Thus, applications drive the progress in the theory and imp- mentation of declarative systems, and in turn bene?t from this progress. The International Symposium on Practical Applications of Declarative L- guages (PADL) provides a forum for researchers, practitioners, and implementors of declarative languages to exchange ideas on current and novel application - eas and on the requirements for e?ective use of declarative systems. The fourth PADL symposium was held in Portland, Oregon, on January 19 and 20, 2002.

Program generation holds the promise of helping to bridge the gap between application-level problem solutions and efficient implementations at the level of today's source programs as written in C or Java. Thus, program generation can substantially contribute to reducing production cost and time-to-market in future software production, while improving the quality and stability of the product. This book is about domain-specific program generation; it is the outcome of a Dagstuhl seminar on the topic held in March 2003. After an introductory preface by the volume editors, the 18 carefully reviewed revised full papers presented are organized into topical sections on - surveys of domain-specific programming technologies - domain-specific programming languages - tool support for program generation - domain-specific techniques for program optimization

This book constitutes the proceedings of the 25th European Symposium on Programming, ESOP 2016, which took place in Eindhoven, The Netherlands, in April 2016, held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2016. The 29 papers presented in this volume were carefully reviewed and selected from 98 submissions. Being devoted to fundamental issues in the specification, design, analysis, and implementation of programming languages and systems, ESOP features contributions on all aspects of programming language research; theoretical and/or practical advances.

This book constitutes the refereed proceedings of the Third International Conference on Formal Methods in Computer-Aided Design, FMCAD 2000, held in Austin, Texas in November 2000. The 30 revised full papers presented together with two invited contributions were carefully reviewed and selected from 63 submissions. All current issues of research and development approaches based on formal methods for the design and analysis of systems are addressed. Among the topics covered are formal verification, formal specification, systems analysis, program analysis, model checking, automated modeling, program semantics, theorem proving, symbolic simulation, and transition systems.

This book constitutes the refereed proceedings of the 12th International Symposium on Practical Aspects of Declarative Languages, PADL 2010, held in Madrid, Spain, in January 2010, colocated with POPL 2010, the Symposium on Principles of Programming Languages. The 22 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 58 submissions. The volume features original work emphasizing novel applications and implementation techniques for all forms of clarative concepts, including functions, relations, logic, and constraints. The papers address all current aspects of declarative programming; they are organized in topical sections on non-monotonic reasoning - answer set programming, types, parallelism and distribution, code quality assurance, domain specific languages, programming aids, constraints, and tabling - agents.

This book constitutes the thoroughly refereed post-proceedings of the 13th International Workshop on the Implementation of Functional Languages, IFL 2001, held in Stockholm, Sweden in September 2001. The eleven revised full papers presented have gone through a thorough round of post-workshop reviewing and were selected from 28 workshop papers. Among the topics covered are relevant aspects of implementing and using functional languages, such as type systems, compilation, program optimization, theorem proving, program correctness, program analysis, parallel compilers, subtyping, and generic programming.

This volume is published in Honor of Philip Wadler on the occasion of his 60th birthday, and the collection of papers form a Festschrift for him. The contributions are made by some of the many who know Phil and have been influenced by him. The research papers included here represent some of the areas in which Phil has been active, and the editors thank their colleagues for agreeing to contribute to this Festschrift. We attempt to summarize Phil Wadler's scientific achievements. In addition, we de-

scribe the personal style and enthusiasm that Phil has brought to the subject.

This book constitutes the thoroughly refereed post-proceedings of the 16th International Workshop on Implementation and Applications of Functional Languages, IFL 2004, held in Lübeck, Germany in September 2004. The 13 revised full papers presented went through two rounds of reviewing and improvement and were selected from an initial total of 40 workshop presentations. The papers address current issues on functional and function-based languages, ranging from theoretical and methodological topics to implementation issues and applications in various contexts.

This book constitutes the thoroughly refereed post-proceedings of the 18th International Workshop on Implementation and Applications of Functional Languages, IFL 2006, held in Budapest, Hungary, in September 2006. The 15 revised full papers presented went through two rounds of reviewing and improvement and were selected from 40 workshop presentations. The papers address all current theoretical and methodological issues on functional and function-based languages such as language concepts, concurrent/parallel programming, type checking, concurrent/parallel program execution, compilation techniques, heap management, generic programming techniques, runtime profiling, (abstract) interpretation, performance measurements, automatic program generation, debugging and tracing, (abstract) machine architectures, verification, formal aspects, tools and programming techniques, array processing and demos of well working, useable tools and applications in functional languages.

This book constitutes the thoroughly refereed post-proceedings of the 17th International Workshop on Implementation and Applications of Functional Languages, IFL 2005, held in Dublin, Ireland in September 2005. Ranging from theoretical and methodological topics to implementation issues and applications in various contexts, the papers address all current issues on functional and function-based languages.

This book constitutes the refereed proceedings of the 7th International Conference on Software Language Engineering, SLE 2014, held in Västerås, Sweden, in September 2014. The 19 revised full papers presented together with 1 invited paper were carefully reviewed and selected from 61 initial submissions. The papers observe software languages from different and yet complementary perspectives: programming languages, model driven engineering, domain specific languages, semantic web, and from different technological spaces: context-free grammars, object-oriented modeling frameworks, rich data, structured data, object-oriented programming, functional programming, logic programming, term-rewriting, attribute grammars, algebraic specification, etc.

Functional programming; Haskell, Gofer; type theory.

This open access book constitutes the proceedings of the 29th European Symposium on Programming, ESOP 2020, which was planned to take place in Dublin, Ireland, in April 2020, as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2020. The actual ETAPS 2020 meeting was postponed due to the Corona pandemic. The papers deal with fundamental issues in the specification, design, analysis, and implementation of programming languages and systems.

Addressed to readers at different levels of programming expertise, The Practice of Prolog offers a departure from current books that focus on small programming examples requiring additional instruction in order to extend them to full programming projects. It shows how to design and organize moderate to large Prolog programs, providing a collection of eight programming projects, each with a particular application, and illustrating how a Prolog program was written to solve the application. These range from a simple learning program to designing a database for molecular biology to natural language generation from plans and stream data analysis. Leon Sterling is Associate Professor in the Department of Computer Engineering and Science at Case Western Reserve University. He is the coauthor, along with Ehud Shapiro, of The Art of Prolog. Contents: A Simple Learning Program, Richard O'Keefe. Designing a Prolog Database for Molecular Biology, Ewing Lusk, Robert Olson, Ross Overbeek, Steve Tuecke. Parallelizing a Pascal Compiler, Eran Gabber. PREDITOR: A Prolog-Based VLSI Editor, Peter B. Reintjes. Assisting Register Transfer Level Hardware Design, Paul Drongowski. Design and Implementation of a Partial Evaluation System, Arun Lakhotia, Leon Sterling. Natural Language Generation from Plans, Chris Mellish. Stream Data Analysis in Prolog, Stott Parker.

This volume presents the proceedings of the 5th International Conference Parallel Architectures and Languages Europe (PARLE '94), held in Athens, Greece in July 1994. PARLE is the main Europe-based event on parallel processing. Parallel processing is

now well established within the high-performance computing technology and of stategic importance not only to the computer industry, but also for a wide range of applications affecting the whole economy. The 60 full papers and 24 poster presentations accepted for this proceedings were selected from some 200 submissions by the international program committee; they cover the whole field and give a timely state-of-the-art report on research and advanced applications in parallel computing.

This book constitutes the refereed proceedings of the 9th International Symposium on Practical Aspects of Declarative Languages, PADL 2007, held in Nice, France, in January 2007, co-located with POPL 2007, the Symposium on Principles of Programming Languages. The 19 revised full papers presented together with two invited papers were carefully reviewed and selected from 58 submissions. All current aspects of declarative programming are addressed.

This collection of 17 papers drawn from an August 1999 workshop held in Scotland presents advances in parallel functional programming, type systems, architectures and implementation, language applications, and theory. Topics include BSP-based cost analysis of skeletal programs, how to combine the benefits of strict and soft typing, interfacing Java with Haskell, a functional design framework for genetic algorithms, and list homomorphisms with accumulation and indexing. No index. Distributed by ISBS. c. Book News Inc.

This open access book constitutes the proceedings of the 30th European Symposium on Programming, ESOP 2021, which was held during March 27 until April 1, 2021, as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2021. The conference was planned to take place in Luxembourg and changed to an online format due to the COVID-19 pandemic. The 24 papers included in this volume were carefully reviewed and selected from 79 submissions. They deal with fundamental issues in the specification, design, analysis, and implementation of programming languages and systems.

This book constitutes the refereed proceedings of the 11th International Symposium on Practical Aspects of Declarative Languages, PADL 2009, held in Savannah, GA, USA, in January 2009, colocated with POPL 2009, the Symposium on Principles of Programming Languages. The 18 revised full papers presented together with 1 invited talk were carefully reviewed and selected from 48 submissions. The volume features original work emphasizing novel applications and implementation techniques for all forms of declarative concepts, including functions, relations, logic, and constraints. The papers address all current aspects of declarative programming; they are organized in topical sections on user

interfaces and environments, networks and data, multi-threading and parallelism, databases and large data sets, tabling and optimization, as well as language extensions and implementation.

ETAPS 2001 was the fourth instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998 by combining a number of existing and new conferences. This year it comprised ve conferences (FOSSACS, FASE, ESOP, CC, TACAS), ten satellite workshops (CMCS, ETI Day, JOSES, LDTA, MMAABS, PFM, RelMiS, UNIGRA, WADT, WTUML), seven invited lectures, a debate, and ten tutorials. The events that comprise ETAPS address various aspects of the system de- lopment process, including speci cation, design, implementation, analysis, and improvement. The languages, methodologies, and tools which support these - tivities are all well within its scope. Di erent blends of theory and practice are represented, with an inclination towards theory with a practical motivation on one hand and soundly-based practice on the other. Many of the issues involved in software design apply to systems in general, including hardware systems, and the emphasis on software is not intended to be exclusive.

This book presents the thoroughly refereed post-workshop proceedings of the 9th International Workshop on Languages and Compilers for Parallel Computing, LCPC'96, held in San Jose, California, in August 1996. The book contains 35 carefully revised full papers together with nine poster presentations. The papers are organized in topical sections on automatic data distribution and locality enhancement, program analysis, compiler algorithms for fine-grain parallelism, instruction scheduling and register allocation, parallelizing compilers, communication optimization, compiling HPF, and run-time control of parallelism.

The International Symposium on Practical Aspects of Declarative Languages (PADL) is a forum for researchers and practitioners to present original work emphasizing novel applications and implementation techniques for all forms of declarative concepts, especially those emerging from functional, logic, and c- straint languages. Declarative languages have been studied since the inception of computer science, and continue to be a vibrant subject of investigation today due to their applicability in current application domains such as bioinformatics, network con?guration, the Semantic Web, telecommunications software, etc. The 6th PADL Symposium was held in Dallas, Texas on June 18–19, 2004, and was co-located with the Compulog-Americas Summer School on Compu- tional Logic. From the submitted papers, the program committee selected 15 for presentation at the symposium based upon three written reviews for each paper, which were provided by the members of the program committee and additional referees. Two invited talks were presented at the conference. The ?rst

was given by Paul Hudak (Yale University) on "An Algebraic Theory of Polymorphic T- poral Media. " The second invited talk was given by Andrew Fall (Dowlland Technologies and Simon Fraser University) on "Supporting Decisions in C- plex, Uncertain Domains with Declarative Languages. " Following the precedent set by the previous PADL symposium, the program committee this year again selected one paper to receive the 'Most Practical - per'award.

This book constitutes the refereed proceedings of the Third International Symposium on Practical Aspects of Declarative Programming, PADL 2001, held in Las Vegas, Nevada, USA in March 2001. The 23 revised full papers presented were carefully reviewed and selected from a total of 40 submissions. Among the topics covered are Mu-calculus, specification languages, Java, Internet programming, VRML, security protocols, database security, authentication protocols, Prolog programming, implementation, constraint programming, visual tracking, and model checking.

This book constitutes the refereed proceedings of the 7th Asian Symposium on Programming Languages and Systems, APLAS 2009, held in Seoul, Korea, in December 2009. The 21 papers presented in this volume together with 3 invited talks were carefully reviewed and selected from 56 submissions. The papers are divided into topical sections on program analysis, transformation and optimization, type system, separation logic, logic and foundation theory, software security and verification, and software security and verification.

This book constitutes the thoroughly refereed post-conference proceedings of the 22nd International Symposium on Implementation and Applications of Functional Languages, IFL 2010, held in Alphen aan den Rijn, The Netherlands, in September 2010. The 13 revised full papers presented were carefully reviewed and were selected from 31 submissions. The IFL symposia bring together researchers and practitioners that are actively engaged in the implementation and the use of functional and function based programming languages. Every year IFL provides a venue for the presentation and discussion of new ideas and concepts, of work in progress, and of publication-ripe results.

This book constitutes the thoroughly refereed post-workshop proceedings of the 9th International Workshop on Implementation of Functional Languages, IFL'97, held in St. Andrews, Scotland, UK, in September 1997. The 21 revised full papers presented were selected from the 34 papers accepted for presentation at the workshop during a second round of thorough a-posteriori reviewing. The book is divided in sections on compilation, types, benchmarking and profiling, parallelism, interaction, language design, and garbage collection.