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Altri autori (Persone)	HermenegildoManuel CabezaDaniel
Disciplina	005.13
Soggetti	Compilers (Computer programs) Computer programming Computer science Software engineering Compilers and Interpreters Programming Techniques Computer Science Logic and Foundations of Programming Software Engineering
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Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Building the World from First Principles: Declarative Machine Descriptions and Compiler Construction -- Code Compression -- Papers -- Functional Framework for Sound Synthesis -- Specializing Narrowing for Timetable Generation: A Case Study -- Character-Based Cladistics and Answer Set Programming -- Role-Based Declarative Synchronization for Reconfigurable Systems -- Towards a More Practical Hybrid Probabilistic Logic Programming Framework -- Safe Programming with Pointers Through Stateful Views -- Towards Provably Correct Code Generation via Horn Logical Continuation Semantics -- A Provably Correct Compiler for Efficient Model Checking of Mobile Processes -- An Ordered Logic Program Solver -- Improving Memory Usage in the BEAM -- Solving Constraints on Sets of Spatial Objects -- Discovery of Minimal Unsatisfiable Subsets of Constraints

Using Hitting Set Dualization -- Solving Collaborative Fuzzy Agents Problems with CLP( ) -- Improved Fusion for Optimizing Generics -- The Program Inverter LRinv and Its Structure -- A Full Pattern-Based Paradigm for XML Query Processing -- Type Class Directives.

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Sommario/riassunto

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, including functional, logic, constraints, etc. Declarative languages build on sound theoretical foundations to provide attractive frameworks for application development. These languages have been successfully applied to a wide array of different real-world situations, including database management, active networks, software engineering, decision support systems, or music composition; whereas new developments in theory and implementation have opened up new application areas. Inversely, applications often drive the progress in the theory and implementation of declarative systems, as well as benefit from this progress. The 7th PADL Symposium was held in Long Beach, California on January 10-11, 2005, and was co-located with ACM's Principles of Programming Languages (POPL). From 36 submitted papers, the Program Committee selected 17 papers for presentation at the symposium, based upon at least three reviews for each paper, provided from Program Committee members and additional referees. Two invited talks were presented at the conference: one by Norman Ramsey (Harvard University) entitled "Building the World from First Principles: Declarative Machine Descriptions and Compiler Construction"; and a second by Saumya Debray (University of Arizona) entitled "Code Compression." Following what has become a tradition in PADL symposia, the Program Committee selected one paper to receive the "Most Practical Paper" award. This year the paper judged the best in terms of practicality, originality, and clarity was "A Provably Correct Compiler for Efficient Model Checking of Mobile Processes," by Ping Yang, Yifei Dong, C.R. Ramakrishnan, and Scott A. Smolka.

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