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Soggetti	Programming languages (Electronic computers) Computer science Computer programming Computer logic Software engineering Programming Languages, Compilers, Interpreters Computer Science, general Programming Techniques Logics and Meanings of Programs Software Engineering
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Nota di contenuto	Invited Talks -- Using a Declarative Language to Build an Experimental Analysis Tool -- How to Talk to Your Computer so that It Will Listen -- Single-Threaded Objects in ACL2 -- Regular Papers -- Modeling Engineering Structures with Constrained Objects -- Compiler Construction in Higher Order Logic Programming -- Declarative Programming and Clinical Medicine On the Use of Gisela in the MedView Project -- Semantics-Based Filtering: Logic Programming's Killer App -- Linear Scan Register Allocation in a High-Performance Erlang Compiler -- Compiling Embedded Programs to Byte Code -- Typed Combinators for Generic Traversal -- Event-Driven FRP -- Adding Apples and Oranges -- WASH/CGI: Server-Side Web Scripting

with Sessions and Typed, Compositional Forms -- A Better XML Parser through Functional Programming -- Functional Approach to Texture Generation -- Abstract Interpretation over Non-deterministic Finite Tree Automata for Set-Based Analysis of Logic Programs -- A High-Level Generic Interface to External Programming Languages for ECLiPSe -- A Debugging Scheme for Declarative Equation Based Modeling Languages -- Segment Order Preserving and Generational Garbage Collection for Prolog -- Exploiting Efficient Control and Data Structures in Logic Programs -- Suspending and Resuming Computations in Engines for SLG Evaluation.

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## Sommario/riassunto

Declarative languages build on sound theoretical bases to provide attractive frameworks for application development. These languages have been successfully applied to a wide variety of real-world situations including database management, 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 implementation of declarative systems, and in turn benefit from this progress. The International Symposium on Practical Applications of Declarative Languages (PADL) provides a forum for researchers, practitioners, and implementors of declarative languages to exchange ideas on current and novel applications and on the requirements for effective use of declarative systems. The fourth PADL symposium was held in Portland, Oregon, on January 19 and 20, 2002.

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