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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1145
Disciplina	005.13/1
Soggetti	Software engineering Computers Computer programming Programming languages (Electronic computers) Computer logic Software Engineering/Programming and Operating Systems Theory of Computation Programming Techniques Software Engineering Programming Languages, Compilers, Interpreters Logics and Meanings of Programs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Constraint-based program analysis -- Semantics-directed program analysis: A tool-maker's perspective -- Property-oriented expansion -- Generalized dominators for structured programs -- Cache behavior prediction by abstract interpretation -- Termination analysis for offline partial evaluation of a higher order functional language -- Proving correctness of Constraint Logic Programs with dynamic scheduling -- Understanding mobile agents via a non-interleaving semantics for facile -- Termination analysis for partial functions -- A freeness and sharing analysis of logic programs based on a pre-interpretation -- Refinement types for program analysis -- A comparison of three occur-check analysers -- Analysis of the equality relations for the program

terms -- An even faster solver for general systems of equations --  
Inferring program specifications in polynomial-time -- Automated  
modular termination proofs for real Prolog programs -- Data-flow-  
based virtual function resolution -- Compiling laziness using  
projections -- Optimized algorithms for incremental analysis of logic  
programs -- Tractable constraints in finite semilattices -- Uniformity  
for the decidability of hybrid automata -- A backward slicing algorithm  
for Prolog -- Combining slicing and constraint solving for validation of  
measurement software -- Subtyping constrained types -- Abstract  
cofibred domains: Application to the alias analysis of untyped  
programs -- Stan: A static analyzer for CLP({ie383-01}) based on  
abstract interpretation -- Two applications of an incremental analysis  
engine for (constraint) logic programs -- PAN — The Prolog analyzer.

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## Sommario/riassunto

This book constitutes the refereed proceedings of the Third  
International Static Analysis Symposium, SAS '96, held in Aachen,  
Germany, in September 1996 in conjunction with ALP and PLILP. The  
volume presents 22 highly-quality revised full papers selected from a  
total of 79 submissions; also included are three system descriptions  
and invited contributions by Alex Aiken (abstract only), Flemming  
Nielson, and Bernhard Steffen. Among the topics addressed are  
program analysis, incremental analysis, abstract interpretation, partial  
evaluation, logic programming, functional programming, and constraint  
programming.

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