

1. Record Nr.	UNINA9910483165003321
Titolo	Static Analysis : 15th International Symposium, SAS 2008, Valencia, Spain, July 16-18, 2008, Proceedings // edited by María Alpuente, Germán Vidal-Oriola
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2008
ISBN	3-540-69166-9
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (X, 379 p.)
Collana	Programming and Software Engineering, , 2945-9168 ; ; 5079
Altri autori (Persone)	AlpuenteMaria VidalGerman (German Francisco Vidal Oriola)
Disciplina	005.1
Soggetti	Software engineering Compilers (Computer programs) Computer science Machine theory Computer programming Software Engineering Compilers and Interpreters Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory Programming Techniques
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Papers -- Transforming Abstract Interpretations by Abstract Interpretation -- Reflections on the Role of Static Analysis in Cooperative Bug Isolation -- Contributed Papers -- Relational Analysis of Correlation -- Convex Hull of Arithmetic Automata -- Pointer Analysis, Conditional Soundness, and Proving the Absence of Errors -- Protocol Inference Using Static Path Profiles -- Solving Multiple Dataflow Queries Using WPDSs -- Field Flow Sensitive Pointer and Escape Analysis for Java Using Heap Array SSA -- Typing Linear Constraints for Moding CLP() Programs -- On Polymorphic Recursion, Type Systems, and Abstract Interpretation -- Modal Abstractions of Concurrent Behaviour -- Hiding Software Watermarks in Loop

Structures -- Inferring Min and Max Invariants Using Max-Plus
Polyhedra -- Conflict Analysis of Programs with Procedures, Dynamic
Thread Creation, and Monitors -- Automatic Inference of Upper Bounds
for Recurrence Relations in Cost Analysis -- SLR: Path-Sensitive
Analysis through Infeasible-Path Detection and Syntactic Language
Refinement -- Flow Analysis, Linearity, and PTIME -- Quantum
Entanglement Analysis Based on Abstract Interpretation -- Language
Strength Reduction -- Analysing All Polynomial Equations in --
Splitting the Control Flow with Boolean Flags -- Reasoning about
Control Flow in the Presence of Transient Faults -- A Computational
Approach to Control-Flow Analysis by Abstract Interpretation -- Heap
Decomposition for Concurrent Shape Analysis.

Sommario/riassunto

This book constitutes the refereed proceedings of the 15th International Symposium on Static Analysis, SAS 2008, held in Valencia, Spain in July 2008 - co-located with LOPSTR 2008, the International Symposium on Logic-based Program Synthesis and Transformation, PPDP 2008, the International ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming, and PLID 2008, the International Workshop on Programming Language Interference and Dependence. The 22 revised full papers presented together with two invited lectures were carefully reviewed and selected from 63 submissions. The papers address all aspects of static analysis including abstract domains, abstract interpretation, abstract testing, compiler optimizations, control flow analysis, data flow analysis, model checking, program specialization, security analysis, theoretical analysis frameworks, type based analysis, and verification systems.
