

1. Record Nr.	UNISA996466055703316
Titolo	Verification, Model Checking, and Abstract Interpretation : 6th International Conference, VMCAI 2005, Paris, France, January 17-19, 2005, Proceedings // edited by Radhia Cousot
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2005
ISBN	3-540-30579-3
Edizione	[1st ed. 2005.]
Descrizione fisica	1 online resource (XII, 483 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 3385
Disciplina	005.1/4
Soggetti	Software engineering Computer science Compilers (Computer programs) Software Engineering Computer Science Logic and Foundations of Programming Compilers and Interpreters
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 Paper -- Proving Program Invariance and Termination by Parametric Abstraction, Lagrangian Relaxation and Semidefinite Programming -- Numerical Abstraction -- Scalable Analysis of Linear Systems Using Mathematical Programming -- The Arithmetic-Geometric Progression Abstract Domain -- An Overview of Semantics for the Validation of Numerical Programs -- Invited Talk -- The Verifying Compiler, a Grand Challenge for Computing Research -- Verification I -- Checking Herbrand Equalities and Beyond -- Static Analysis by Abstract Interpretation of the Quasi-synchronous Composition of Synchronous Programs -- Termination of Polynomial Programs -- Verifying Safety of a Token Coherence Implementation by Parametric Compositional Refinement -- Invited Talk -- Abstraction for Liveness -- Heap and Shape Analysis -- Abstract Interpretation with Alien Expressions and Heap Structures -- Shape Analysis by Predicate Abstraction -- Predicate Abstraction and Canonical Abstraction for Singly-Linked Lists -- Purity and Side Effect Analysis for Java Programs

-- Abstract Model Checking -- Automata as Abstractions -- Don't Know in the λ -Calculus -- Model Checking of Systems Employing Commutative Functions -- Model Checking -- Weak Automata for the Linear Time λ -Calculus -- Model Checking for Process Rewrite Systems and a Class of Action-Based Regular Properties -- Minimizing Counterexample with Unit Core Extraction and Incremental SAT -- I/O Efficient Directed Model Checking -- Applied Abstract Interpretation -- Verification of an Error Correcting Code by Abstract Interpretation -- Information Flow Analysis for Java Bytecode -- Cryptographic Protocol Analysis on Real C Code -- Bounded Model Checking -- Simple Is Better: Efficient Bounded Model Checking for Past LTL -- Optimizing Bounded Model Checking for Linear Hybrid Systems -- Verification II -- Efficient Verification of Halting Properties for MPI Programs with Wildcard Receives -- Generalized Typestate Checking for Data Structure Consistency -- On the Complexity of Error Explanation -- Efficiently Verifiable Conditions for Deadlock-Freedom of Large Concurrent Programs.
