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Titolo	Verification, Model Checking, and Abstract Interpretation [[electronic resource]] : 8th International Conference, VMCAI 2007, Nice, France, January 14-16, 2007, Proceedings / / edited by Byron Cook, Andreas Podelski
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Descrizione fisica	1 online resource (XI, 395 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4349
Disciplina	005.14
Soggetti	Software engineering Computer science Compilers (Computer programs) Software Engineering Computer Science Logic and Foundations of Programming Compilers and Interpreters
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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 Talk -- DIVINE: Discovering Variables IN Executables -- Session 1 -- Verifying Compensating Transactions -- Model Checking Nonblocking MPI Programs -- Model Checking Via ?CFA -- Using First-Order Theorem Provers in the Jahob Data Structure Verification System -- Invited Tutorial -- Interpolants and Symbolic Model Checking -- Session 2 -- Shape Analysis of Single-Parent Heaps -- An Inference-Rule-Based Decision Procedure for Verification of Heap-Manipulating Programs with Mutable Data and Cyclic Data Structures -- On Flat Programs with Lists -- Invited Talk -- Automata-Theoretic Model Checking Revisited -- Session 3 -- Language-Based Abstraction Refinement for Hybrid System Verification -- More Precise Partition Abstractions -- The Spotlight Principle -- Lattice Automata -- Invited Tutorial -- Learning Algorithms and Formal Verification (Invited Tutorial) -- Session 4 -- Constructing Specialized Shape Analyses for Uniform Change -- Maintaining Doubly-Linked List Invariants in Shape

Analysis with Local Reasoning -- Automated Verification of Shape and
Size Properties Via Separation Logic -- Invited Talk -- Towards Shape
Analysis for Device Drivers -- Session 5 -- An Abstract Domain
Extending Difference-Bound Matrices with Disequality Constraints --
Cibai: An Abstract Interpretation-Based Static Analyzer for Modular
Analysis and Verification of Java Classes -- Symmetry and
Completeness in the Analysis of Parameterized Systems -- Better
Under-Approximation of Programs by Hiding Variables -- Invited
Tutorial -- The Constraint Database Approach to Software Verification
-- Session 6 -- Constraint Solving for Interpolation -- Assertion
Checking Unified -- Invariant Synthesis for Combined Theories.
