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Nota di contenuto	Invited Talks Model Checking: Progress and Problems Model Checking Concurrent Programs Thread-Modular Shape Analysis Invited Tutorials Advances in Program Termination and Liveness Verification of Security Protocols Submitted Papers Towards Automatic Stability Analysis for Rely-Guarantee Proofs Mostly- Functional Behavior in Java Programs The Higher-Order Aggregate Update Problem An Abort-Aware Model of Transactional Programming Model-Checking the Linux Virtual File System LTL Generalized Model Checking Revisited Monitoring the Full Range of ? -Regular Properties of Stochastic Systems Constraint-Based Invariant Inference over Predicate Abstraction Reducing Behavioural to Structural Properties of Programs with Procedures Query-Driven Program Testing Average-Price-per-Reward Games on Hybrid

	Automata with Strong Resets Abstraction Refinement for Probabilistic Software Finding Concurrency-Related Bugs Using Random Isolation An Abstract Interpretation-Based Framework for Control Flow Reconstruction from Binaries SubPolyhedra: A (More) Scalable Approach to Infer Linear Inequalities Deciding Extensions of the Theories of Vectors and Bags A Posteriori Soundness for Non- deterministic Abstract Interpretations An Automata-Theoretic Dynamic Completeness Criterion for Bounded Model-Checking A Scalable Memory Model for Low-Level Code Synthesizing Switching Logic Using Constraint Solving Extending Symmetry Reduction by Exploiting System Architecture Shape-Value Abstraction for Verifying Linearizability Mixed Transition Systems Revisited Counterexample Generation for Discrete-Time Markov Chains Using Bounded Model Checking.
Sommario/riassunto	The book constitutes the refereed proceedings of the 10th International Conference on Verification, Model Checking, and Abstract Interpretation, VMCAI 2009, held in Savannah, GA, USA, in January 2009 - co-located with POPL 2009, the 36th Annual Symposium on Principles of Programming Languages. The 24 revised full papers presented together with 3 invited talks and 2 invited tutorials were carefully reviewed and selected from 72 submissions. The papers address all current issues from the communities of verification, model checking, and abstract interpretation, facilitating interaction, cross- fertilization, and advancement of hybrid methods that combine the three areas.