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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 3920
Altri autori (Persone)	HermannsHolger <1967-> PalsbergJens
Disciplina	005.1
Soggetti	Software engineering Computer science Computer networks Algorithms Software Engineering Computer Science Logic and Foundations of Programming Computer Communication Networks
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Contributions -- Weighted Pushdown Systems and Trust- Management Systems -- Parametrization and Slicing -- Automatic Verification of Parameterized Data Structures -- Parameterized Verification of λ -Calculus Systems -- Easy Parameterized Verification of Biphase Mark and 8N1 Protocols -- Evaluating the Effectiveness of Slicing for Model Reduction of Concurrent Object-Oriented Programs -- Symbolic Techniques -- New Metrics for Static Variable Ordering in Decision Diagrams -- Widening ROBDDs with Prime Implicants -- Efficient Guided Symbolic Reachability Using Reachability Expressions -- Satisfiability -- SDSAT: Tight Integration of Small Domain Encoding and Lazy Approaches in a Separation Logic Solver -- SAT-Based Software Certification -- Expressiveness + Automation + Soundness:

Towards Combining SMT Solvers and Interactive Proof Assistants --
 Exploration of the Capabilities of Constraint Programming for Software
 Verification -- Abstraction -- Counterexample-Guided Abstraction
 Refinement for the Analysis of Graph Transformation Systems -- Why
 Waste a Perfectly Good Abstraction? -- Efficient Abstraction Refinement
 in Interpolation-Based Unbounded Model Checking -- Approximating
 Predicate Images for Bit-Vector Logic -- Model Checking Algorithms --
 Finitary Winning in ω -Regular Games -- Efficient Model Checking for
 LTL with Partial Order Snapshots -- A Local Shape Analysis Based on
 Separation Logic -- Program Verification -- Compositional Model
 Extraction for Higher-Order Concurrent Programs -- A Region Graph
 Based Approach to Termination Proofs -- Verifying Concurrent
 Message-Passing C Programs with Recursive Calls -- Automata-Based
 Verification of Programs with Tree Updates -- Runtime Diagnostics --
 An Experimental Comparison of the Effectiveness of Control Flow Based
 Testing Approaches on Seeded Faults -- Exploiting Traces in Program
 Analysis -- Quantitative Techniques -- Model-Checking Markov Chains
 in the Presence of Uncertainties -- Safety Metric Temporal Logic Is Fully
 Decidable -- Simulation-Based Graph Similarity -- Tool
 Demonstrations -- PRISM: A Tool for Automatic Verification of
 Probabilistic Systems -- DISTRIBUTOR and BCG_MERGE: Tools for
 Distributed Explicit State Space Generation -- mcmas: A Model Checker
 for Multi-agent Systems -- MSCan – A Tool for Analyzing MSC
 Specifications -- Refinement -- A Practical and Complete Approach to
 Predicate Refinement -- Counterexample Driven Refinement for
 Abstract Interpretation -- Abstraction Refinement with Craig
 Interpolation and Symbolic Pushdown Systems.

Sommario/riassunto

ETAPS 2006 was the ninth instance of the European Joint Conferences
 on Theory and Practice of Software. ETAPS is an annual federated
 conference that was established in 1998 by combining a number of
 existing and new conferences. This year it comprised 7 conferences
 (CC, ESOP, FASE, FOSSACS, TACAS), 18 satellite workshops (AC- CAT,
 AVIS, CMCS, COCV, DCC, EAAI, FESCA, FRCSS, GT-VMT, LDTA, MBT,
 QAPL, SC, SLAP, SPIN, TERMGRAPH, WITS and WRLA), two tutorials, and
 seven invited lectures (not including those that were specific to the
 satellite events). We received over 550 submissions to the 7
 conferences this year, giving an overall acceptance rate of 23%, with
 acceptance rates below 30% for each conference. Congratulations to all
 the authors who made it to the final programme! I hope that most of
 the other authors still find a way of participating in this exciting event
 and I hope you will continue submitting. The events that comprise
 ETAPS address various aspects of the system development process,
 including specification, design, implementation, analysis and improve-
 ment. The languages, methodologies and tools which support these
 activities are all well within its scope. Different blends of theory and
 practice are represented, with an inclination towards theory with a
 practical motivation on the one hand and soundly based practice on the
 other. Many of the issues involved in software design apply to systems
 in general, including hardware systems, and the emphasis on software
 is not intended to be exclusive.