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Altri autori (Persone)	GordonAndrew D
Disciplina	005.1
Soggetti	Software engineering Computer networks Computer science Computer programming Compilers (Computer programs) Software Engineering Computer Communication Networks Computer Science Logic and Foundations of Programming Programming Techniques Compilers and Interpreters
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The Audacity of Hope: Thoughts on Reclaiming the Database Dream -- Dynamic Boundaries: Information Hiding by Second Order Framing with First Order Assertions -- Coupling Policy Iteration with Semi-definite Relaxation to Compute Accurate Numerical Invariants in Static Analysis -- Precise and Automated Contract-Based Reasoning for Verification and Certification of Information Flow Properties of Programs with Arrays -- A Semantic Framework for Declassification and Endorsement

-- Amortised Resource Analysis with Separation Logic -- A PolyTime Functional Language from Light Linear Logic -- Testing Polymorphic Properties -- Formal Verification of Coalescing Graph-Coloring Register Allocation -- A Theory of Speculative Computation -- Propositional Interpolation and Abstract Interpretation -- Functional Programming in Sublinear Space -- Logical Concurrency Control from Sequential Proofs -- Fluid Updates: Beyond Strong vs. Weak Updates -- Parameterized Memory Models and Concurrent Separation Logic -- Amortized Resource Analysis with Polynomial Potential -- Generative Operational Semantics for Relaxed Memory Models -- Automating Security Mediation Placement -- TRX: A Formally Verified Parser Interpreter -- On the Expressive Power of Primitives for Compensation Handling -- Separating Shape Graphs -- Deadlock-Free Channels and Locks -- Verifying a Compiler for Java Threads -- A Grammar-Based Approach to Invertible Programs -- Faulty Logic: Reasoning about Fault Tolerant Programs -- A Hoare Logic for the Coinductive Trace-Based Big-Step Semantics of While -- A Universal Calculus for Stream Processing Languages -- Enforcing Stateful Authorization and Information Flow Policies in Fine -- Stateful Contracts for Affine Types -- CFA2: A Context-Free Approach to Control-Flow Analysis -- Weighted Dynamic Pushdown Networks -- Explicit Stabilisation for Modular Rely-Guarantee Reasoning.

Sommario/riassunto

ETAPS 2010 was the 13th 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 the usual sister conferences (CC, ESOP, FASE, FOSSACS, TACAS), 19 satellite workshops (ACCAT, ARSPA-WITS, Bytecode, CMCS, COCV, DCC, DICE, FBTC, FESCA, FOSS-AMA, GaLoP, GT-VMT, LDTA, MBT, PLACES, QAPL, SafeCert, WGT, and WRLA) and seven invited lectures (excluding those that were specific to the satellite events). The five main conferences this year received 497 submissions (including 31 tool demonstration papers), 130 of which were accepted (10 tool demos), giving an overall acceptance rate of 26%, with most of the conferences at around 24%. Congratulations therefore to all the authors who made it to the final programme! I hope that most of the other authors will still have found a way of participating in this exciting event, and that you will all continue submitting to ETAPS and contributing to make of it the best conference on software science and engineering. The events that comprise ETAPS address various aspects of the system development process, including specification, design, implementation, analysis and improvement. 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 toward 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. ETAPS is a confederation in which each event retains its own identity, with a separate Programme Committee and proceedings.