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Disciplina	005.453
Soggetti	System analysis Computer software
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Nota di contenuto	Invited Paper -- Adequacy for Algebraic Effects -- Contributed Papers -- Secrecy Types for Asymmetric Communication -- Axiomatizing Tropical Semirings -- Type Isomorphisms and Proof Reuse in Dependent Type Theory -- On the Duality between Observability and Reachability -- The Finite Graph Problem for Two-Way Alternating Automata -- High-Level Petri Nets as Type Theories in the Join Calculus -- Temporary Data in Shared Dataspace Coordination Languages -- On Garbage and Program Logic -- The Complexity of Model Checking Mobile Ambients -- The Rho Cube -- Type Inference with Recursive Type Equations -- On the Modularity of Deciding Call-by-Need -- Synchronized Tree Languages Revisited and New Applications -- Computational Completeness of Programming Languages Based on Graph Transformation -- Axioms for Recursion in Call-by-Value -- Class Analysis of Object-Oriented Programs through Abstract Interpretation -- On the Complexity of Parity Word Automata -- Foundations for a Graph-Based Approach to the Specification of Access Control Policies -- Categories of Processes Enriched in Final Coalgebras -- Model Checking CTL+ and FCTL Is Hard -- On Regular Message Sequence Chart Languages and Relationships to Mazurkiewicz Trace

Theory -- Verified Bytecode Verifiers -- Higher-Order Abstract Syntax with Induction in Isabelle/HOL: Formalizing the λ -Calculus and Mechanizing the Theory of Contexts -- Decidability of Weak Bisimilarity for a Subset of Basic Parallel Processes -- An Axiomatic Semantics for the Synchronous Language Gentzen -- Tool Presentation -- Marrella and the Verification of an Embedded System.

Sommario/riassunto

ETAPS 2001 was the fourth 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 five conferences (FOSSACS, FASE, ESOP, CC, TACAS), ten satellite workshops (CMCS, ETI Day, JOSES, LDTA, MMAABS, PFM, ReIMiS, UNIGRA, WADT, WTUML), seven invited lectures, a debate, and ten tutorials. 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 towards theory with a practical motivation on 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.