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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2305
Disciplina	005.1
Soggetti	Software engineering Programming languages (Electronic computers) Computer programming Computer logic Mathematical logic Software Engineering/Programming and Operating Systems Programming Languages, Compilers, Interpreters Programming Techniques Software Engineering Logics and Meanings of Programs Mathematical Logic and Formal Languages
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Invited Paper -- Type Checking Systems Code -- Typing and Modularity -- Mixin Modules in a Call-by-Value Setting -- Existential Types for Imperative Languages -- Another Type System for In-Place Update -- Programming Paradigms -- Soft Concurrent Constraint Programming -- Programming Languages for Compressing Graphics -- An Accumulative Parallel Skeleton for All -- Higher-Order Intensional Type Analysis -- Lambda Calculus -- Branching Types -- Exceptions, Continuations and Macro-expressiveness -- A Theory of Second-Order Trees -- Program Analysis: Applications -- Tool Support for Improving

Test Coverage -- Data Space Oriented Tiling -- Propagation of Roundoff Errors in Finite Precision Computations: A Semantics Approach -- Asserting the Precision of Floating-Point Computations: A Simple Abstract Interpreter -- Program Analysis: Principles -- A Modular, Extensible Proof Method for Small-Step Flow Analyses -- A Prototype Dependency Calculus -- Automatic Complexity Analysis -- Distributed Programs: Verification and Analysis -- Thread-Modular Verification for Shared-Memory Programs -- Timing UDP: Mechanized Semantics for Sockets, Threads, and Failures -- Finite-Control Mobile Ambients -- Dependency Analysis of Mobile Systems.

Sommario/riassunto

ETAPS2002wasthe7thinstanceoftheEuropeanJointConferencesonTheory 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 5 conferences (FOSSACS, FASE, ESOP, CC, TACAS), 13 satellite workshops (ACL2, AGT, CMCS, COCV, DCC, INT, LDTA, SC, SFEDL, SLAP, SPIN, TPTS, and VISS), 8 invited lectures (not including those specific to the satellite events), and several tutorials. The events that comprise ETAPS address various aspects of the system - velopmentprocess,including speci?cation,design, implementation,analysis,and improvement. The languages, methodologies, and tools which support these - tivities are all well within its scope. Di?erent 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.
