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Disciplina	005.1
Soggetti	Software engineering Computer science Machine theory Compilers (Computer programs) Software Engineering Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory Theory of Computation Compilers and Interpreters
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Security Protocols and Specifications -- An Automata-Theoretic Approach to Interprocedural Data-Flow Analysis -- Reasoning about Concurrent Systems Using Types -- Testing Hennessy-Milner Logic with Recursion -- A Strong Logic Programming View for Static Embedded Implications -- Unfolding and Event Structure Semantics for Graph Grammars -- Expanding the Cube -- An Algebraic Characterization of Typability in ML with Subtyping -- Static Analysis of Processes for No Read-Up and No Write-Down -- A WP-calculus for OO -- The Recognizability Problem for Tree Automata with Comparisons between Brothers -- A Theory of "May" Testing for Asynchronous Languages -- A Nondeterministic Polynomial-Time Unification

Algorithm for Bags, Sets and Trees -- Categorical Models of Explicit Substitutions -- Equational Properties of Mobile Ambients -- Model Checking Logics for Communicating Sequential Agents -- A Complete Coinductive Logical System for Bisimulation Equivalence on Circular Objects -- String Languages Generated by Total Deterministic Macro Tree Transducers -- Matching Specifications for Message Sequence Charts -- Probabilistic Temporal Logics via the Modal Mu-Calculus -- A λ -calculus Process Semantics of Concurrent Idealised ALGOL.

Sommario/riassunto

The International Conference "Foundations of Software Science and Computation Structures" (FOSSACS) is a constituent of the "Joint European Conferences on Theory and Practice of Software" (ETAPS). The present volume contains the contributions to FOSSACS'99, the second conference in this series, which took place in Amsterdam. As formulated in the call for papers, FOSSACS focusses on "papers which offer progress in foundational research with a clear significance for software science. A central issue is theories and methods which support the specification, transformation, verification, and analysis of programs and software systems." The articles in this volume represent a wide spectrum of approaches to this general aim. In many papers, one finds the study of new concepts and methods which are motivated by recent trends (or problems) in the practical use of software and information technology. The volume contains 18 contributed papers, preceded by three invited papers. The first, by M. Abadi, accompanies his "unifying invited lecture" addressed to the whole ETAPS audience. The second, by J. Esparza and J. Knoop, contains an application of the results presented by J. Esparza in his invited lecture to FOSSACS'99. The third summarizes an invited tutorial by D. Sangiorgi presented to ETAPS'99.
