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   Collana   Lecture Notes in Computer Science, , 0302-9743 ; ; 2306

   Disciplina   005.1

   Soggetti   Software engineering
                        Programming languages (Electronic computers)
                        Computer logic
                        Software Engineering/Programming and Operating Systems
                        Software Engineering
                        Programming Languages, Compilers, Interpreters
                        Logics and Meanings of Programs

   Lingua di pubblicazione   Inglese

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   Livello bibliografico   Monografia

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   Nota di bibliografia Includes bibliographical references at the end of each chapters and
                        index.

   Nota di contenuto   Formal Frameworks -- An Approach to Composition Motivated by wp
                        -- Compositional Verification of Secure Applet Interactions -- A
                        Generic Component Framework for System Modeling -- Model and
                        Program Analysis -- Implementing Condition/Event Nets in the Circal
                        Process Algebra -- Integrated State Space Reduction for Model
                        Checking Executable Object-Oriented Software System Designs --
                        Model Generation by Moderated Regular Extrapolation -- Better Slicing
                        of Programs with Jumps and Switches -- Architecture Descriptions --
                        Architectural Types Revisited: Extensible And/Or Connections --
                        Mapping an ADL to a Component-Based Application Development
                        Environment -- From EDOC Components to CCM Components: A
                        Precise Mapping Specification -- Meta-Models -- Engineering

Modelling Languages: A Precise Meta-Modelling Approach -- AToM3: A Tool for Multi-formalism and Meta-modelling -- A Toolbox for Automating Visual Software Engineering -- Formal Approaches towards UML -- Enriching OCL Using Observational Mu-Calculus -- Formal Verification of UML Statecharts with Real-Time Extensions -- Requirements Engineering -- An Authoring Tool for Informal and Formal Requirements Specifications -- Introducing Context-Based Constraints -- Formal Requirements Engineering Using Observer Models -- Automatic Generation of Use Cases from Workflows: A Petri Net Based Approach -- Meta-modeling Techniques Meet Web Application Design Tools -- Formal-Driven Conceptualization and Prototyping of Hypermedia Applications -- Tool Demonstrations -- The Coordination Development Environment -- The Key System: Integrating Object-Oriented Design and Formal Methods -- ObjectCheck: A Model Checking Tool for Executable Object-Oriented Software System Designs -- Demonstration of an Operational Procedure for the Model-Based Testing of CTI Systems.

Sommario/riassunto	ETAPS 2002 was the ?fth instance of the European Joint Conferences on Theory and Practice of Software. ETAPS is an annual federated conference that was established in 1998by 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), 8invited lectures (not including those speci?c to the satellite events), and several tutorials. The events that comprise ETAPS address various aspects of the system - velopment process, 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.