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Titolo	Fundamental Approaches to Software Engineering [[electronic resource]] : 5th International Conference, FASE 2002, Held as Part of the Joint European Conferences on Theory and Practice of Software, ETAPS 2002, Grenoble, France, April 8-12, 2002, Proceedings // edited by Ralf-Detlef Kutsche, Herbert Weber
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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
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
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 Circa 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 7th 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 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 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.
