1.	Record Nr.	UNINA9910483638103321
	Titolo	Fundamental Approaches to Software Engineering : 17th International Conference, FASE 2014, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2014, Grenoble, France, April 5-13, 2014, Proceedings / / edited by Stefania Gnesi, Arend Rensink
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2014
	ISBN	3-642-54804-0
	Edizione	[1st ed. 2014.]
	Descrizione fisica	1 online resource (XVI, 432 p. 103 illus.)
	Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 8411
	Disciplina	005.1
	Soggetti	Software engineering Compilers (Computer programs) Computer science Machine theory Software Engineering Compilers and Interpreters Computer Science Logic and Foundations of Programming Formal Languages and Automata Theory
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	International conference proceedings.
	Nota di bibliografia	Includes bibliographical references and author index.
	Nota di contenuto	Probabilistic Model Checking and Non-standard Multi-objective Reasoning -- Target Oriented Relational Model Finding -- Splitting Models Using Information Retrieval and Model Crawling Techniques -- Sound Merging and Differencing for Class Diagrams -- Heterogeneous and Asynchronous Networks of Timed Systems -- Family-Based Performance Analysis of Variant-Rich Software Systems -- Touch Cost: Cost Analysis of Touch Develop Scripts -- Efficient Incremental Static Analysis Using Path Abstraction -- Type-Based Taint Analysis for Java Web Applications -- Mining the Categorized Software Repositories to Improve the Analysis of Security Vulnerabilities -- Modularizing Early Architectural Assumptions in Scenario-Based Requirements -- Semantically Configurable Analysis of Scenario-Based Specifications --

Formal Verification of Medical Device User Interfaces Using PVS -- Sound Control Flow Graph Extraction from Incomplete Java Bytecode Programs -- Verifying Class Invariants in Concurrent Programs -- Automatic Program Repair by Fixing Contracts -- Dynamic Package Interfaces -- SMT-Based Checking of SOLOIST over Sparse Traces -- An Online Validator for Provenance: Algorithmic Design, Testing and API -- Comparator: A Tool for Quantifying Behavioural Compatibility -- Transformation of Attributed Structures with Cloning -- Implementing Graph Transformations in the Bulk Synchronous Parallel Model -- Modularizing Triple Graph Grammars Using Rule Refinement -- Polymorphic Single-Pushout Graph Transformation -- Causal-Consistent Reversible Debugging -- An Expressive Semantics of Mocking -- Integration Testing in the Test Template Framework -- Data Flow Coverage for Circus-Based Testing.

| Sommario/riassunto | This book constitutes the proceedings of the 17th International Conference on Fundamental Approaches to Software Engineering, FASE 2014, held as part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2014, which took place in Grenoble, France, in April 2014. The 28 papers included in this volume, together with one invited talk, were carefully reviewed and selected from 125 submissions. They have been organized in topical sections on: modeling and model transformation; time and performance; static analysis; scenario-based specification; software verification; analysis and repair; verification and validation; graph transformation and debugging and testing. |