

1. Record Nr.	UNINA9910741162903321
Titolo	Fundamental Approaches to Software Engineering : 16th International Conference, FASE 2013, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2013, Rome, Italy, March 16-24, 2013, Proceedings / / edited by Vittorio Cortellessa, Dániel Varró
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013
ISBN	3-642-37057-8
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (XX, 376 p. 90 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 7793
Disciplina	005.1
Soggetti	Software engineering Compilers (Computer programs) Computer science Information technology - Management Computers, Special purpose Software Engineering Compilers and Interpreters Computer Science Logic and Foundations of Programming Computer Application in Administrative Data Processing Special Purpose and Application-Based Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Towards a Distributed Modeling Process Based on Composite Models -- Change Propagation due to Uncertainty Change -- A Model-Based Synthesis Process for Choreography Realizability Enforcement -- On Extracting Feature Models from Sets of Valid Feature Combinations -- On the Empirical Evaluation of Fault Localization Techniques for Spreadsheets -- Quality of Merge-Refactorings for Product Lines -- Towards Understanding the Behavior of Classes Using Probabilistic Models of Program Inputs -- Discovering Branching Conditions from Business Process Execution Logs -- Exposing Behavioral Differences in Cross-Language API Mapping Relations -- Explicit-State Software

Model Checking Based on CEGAR and Interpolation -- Design Pattern-Based Extension of Class Hierarchies to Support Runtime Invariant Checks -- Augmenting Sequence Enumeration with String-Rewriting for Requirements Analysis and Behavioral Specification -- Scenario Realizability with Constraint Optimization -- Andromeda: Accurate and Scalable Security Analysis of Web Applications -- VerChor: A Framework for Verifying Choreographies -- Javanni: A Verifier for JavaScript -- Model-Based Implementation of Parallel Real-Time Systems -- A Grey-Box Approach for Automated GUI-Model Generation of Mobile Applications -- A Mechanized Model for CAN Protocols -- Enforcing QVT-R with μ -Calculus and Games -- Implementing QVT-R Bidirectional Model Transformations Using Alloy -- Abstraction and Training of Stochastic Graph Transformation Systems -- Discovering Math APIs by Mining Unit Tests -- POGen: A Test Code Generator Based on Template Variable Coverage in Gray-Box Integration Testing for Web Applications -- Testing with Inputs and Outputs in CSP.

Sommario/riassunto

This book constitutes the proceedings of the 16th International Conference on Fundamental Approaches to Software Engineering, FASE 2013, held as part of the European Joint Conference on Theory and Practice of Software, ETAPS 2013, which took place in Rome, Italy, in March 2013. The 25 papers presented in this volume were carefully reviewed and selected from 112 submissions. They are organized in topical sections named: model-driven engineering; verification and validation; software comprehension; analysis tools; model-driven engineering: applications; model transformations; and testing.
