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Note generali	"The International Conference on Fundamental Approaches to Software Engineering (FASE)"--Pref.
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Nota di contenuto	Invited Contributions -- Software Product Families: Towards Compositionality -- Contract-Driven Development -- Evolution and Agents -- EQ-Mine: Predicting Short-Term Defects for Software Evolution -- An Approach to Software Evolution Based on Semantic Change -- A Simulation-Oriented Formalization for a Psychological Theory -- Model Driven Development -- Integrating Performance and Reliability Analysis in a Non-Functional MDA Framework -- Information Preserving Bidirectional Model Transformations -- Activity-Driven Synthesis of State Machines -- Flexible and Extensible Notations for Modeling Languages -- Tool Demonstrations -- Declared Type Generalization Checker: An Eclipse Plug-In for Systematic Programming

with More General Types -- S2A: A Compiler for Multi-modal UML Sequence Diagrams -- Distributed Systems -- Scenario-Driven Dynamic Analysis of Distributed Architectures -- Enforcing Architecture and Deployment Constraints of Distributed Component-Based Software -- A Family of Distributed Deadlock Avoidance Protocols and Their Reachable State Spaces -- Specification -- Precise Specification of Use Case Scenarios -- Joint Structural and Temporal Property Specification Using Timed Story Scenario Diagrams -- SDL Profiles – Formal Semantics and Tool Support -- Preliminary Design of BML: A Behavioral Interface Specification Language for Java Bytecode -- Services -- A Service Composition Construct to Support Iterative Development -- Correlation Patterns in Service-Oriented Architectures -- Dynamic Characterization of Web Application Interfaces -- Testing -- A Prioritization Approach for Software Test Cases Based on Bayesian Networks -- Redundancy Based Test-Suite Reduction -- Testing Scenario-Based Models -- Integration Testing in Software Product Line Engineering: A Model-Based Technique -- Analysis.-Practical Reasoning About Invocations and Implementations of Pure Methods -- Finding Environment Guarantees -- Ensuring Consistency Within Distributed Graph Transformation Systems -- Maintaining Consistency in Layered Architectures of Mobile Ad-Hoc Networks -- Design -- Towards Normal Design for Safety-Critical Systems -- A Clustering-Based Approach for Tracing Object-Oriented Design to Requirement -- Measuring and Characterizing Crosscutting in Aspect-Based Programs: Basic Metrics and Case Studies.

Sommario/riassunto

This book constitutes the refereed proceedings of the 10th International Conference on Fundamental Approaches to Software Engineering, FASE 2007, held in Braga, Portugal in March/April 2007 as part of ETAPS 2007, the Joint European Conferences on Theory and Practice of Software. The 30 revised full papers presented together with 2 invited papers were carefully reviewed and selected from 141 submissions. The papers are organized in topical sections on evolution and agents, model driven development, tool demonstrations, distributed systems, specification, services, testing, analysis, and design.