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Soggetti	Computer science Software engineering Compilers (Computer programs) Machine theory Computer Science Logic and Foundations of Programming Software Engineering Compilers and Interpreters Formal Languages and Automata Theory
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Nota di contenuto	Testing and Inspection -- An Implementation Framework for Optimizing Test Case Generation Using Model Checking -- Applying GA with Tabu list for Automatically Generating Test Cases Based on Formal Specification -- Development of a Software Tool to Support Traceability-Based Inspection of SOFL Specifications -- Model Checking and Animation -- Unified Bounded Model Checking for MSVL -- An Over-Approximation Forward Analysis for Nested Timed Automata -- Adopting Variable Dependency in Animation for Presenting the Behaviour of Process -- Education and Verification -- Using Alloy in Introductory Courses of Formal Methods -- Automatic Verification for Later-Correspondence of Security Protocols -- Combining Separation Logic and Projection Temporal Logic to Reason About Non-blocking Concurrency -- Semantics and Analysis Formal Semantics of Orc Based

on TLAp -- Incremental Points-to Analysis for Java via Edit Propagation
-- A Memory Management Mechanism for MSVL.

Sommario/riassunto

This book constitutes the thoroughly refereed post-workshop proceedings of the 4th International Workshop on Structured Object-Oriented Formal Language and Method, SOFL+MSVL 2014, held in Luxembourg, Luxembourg, in November 2014. The 12 papers presented in this volume were carefully reviewed and selected from 20 submissions. They are organized in topical sections on testing and inspection; model checking and animation; education and verification; and semantics and analysis.
