

<<形式方法和软件工程LNCS-426>>

图书基本信息

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## 内容概要

This book constitutes the refereed proceedings of the 8th International Conference on Formal Engineering Methods, ICFEM 2006, held in Macao, China, in November 2006. The 38 revised full papers presented together with 3 keynote talks were carefully reviewed and selected from 108 submissions. The papers address all current issues in formal methods and their applications in software engineering. They are organized in topical sections on specification and verification, internetware and Web-based systems, concurrent, communicating, timing and probabilistic systems, object and component orientation, testing and model checking, tools, fault-tolerance and security, as well as specification and refinement.

书籍目录

Keynote Talks Program Verification Through Computer Algebra JML's Rich, Inherited Specifications for Behavioral Subtypes Three Perspectives in Formal Engineering Specification and Verification A Method for Formalizing, Analyzing, and Verifying Secure User Interfaces Applying Timed Interval Calculus to Simulink Diagrams Reducing Model Checking of the Few to the One Induction-Guided Falsification Verifying x Models of Industrial Systems with SPIN Stateful Dynamic Partial-Order Reduction Internetware and Web-Based Systems User-Defined Atomicity Constraint: A More Flexible Transaction Model for Reliable Service Composition Environment Ontology-Based Capability Specification for Web Service Discovery Scenario-Based Component Behavior Derivation Verification of Computation Orchestration Via Timed Automata Towards the Semantics for Web Service Choreography Description Language Type Checking Choreography Description Language Concurrent, Communicating, Timing and Probabilistic Systems Formalising Progress Properties of Non-blocking Programs Towards a Fully Generic Theory of Data Verifying Statechart Statecharts Using CSP and FDR A Reasoning Method for Timed CSP Based on Constraint Solving Mapping RT-LOTOS Specifications into Time Petri Nets Reasoning Algebraically About Probabilistic Loops Object and Component Orientation Testing and Model Checking Tools Fault-Tolerance and Security Specification and Refinement Author Index

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