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Descrizione fisica	1 online resource (XII, 344 p.)
Collana	Programming and Software Engineering ; ; 5048
Disciplina	004.6/2
Soggetti	Computer communication systems Software engineering Operating systems (Computers) Computer logic Computer Communication Networks Software Engineering/Programming and Operating Systems Operating Systems Software Engineering Logics and Meanings of Programs
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talk -- Model Generation for Horn Logic with Stratified Negation -- Abstraction -- Counterexample Guided Spotlight Abstraction Refinement -- An Experimental Evaluation of Probabilistic Simulation -- An SMT Approach to Bounded Reachability Analysis of Model Programs -- Verification -- Parameterized Tree Systems -- Adapting Petri Nets Reductions to Promela Specifications -- Verification of a Hierarchical Generic Mutual Exclusion Algorithm -- Specification Framework I -- Distributed Semantics and Implementation for Systems with Interaction and Priority -- Checking Correctness of Transactional Behaviors -- Specifying and Verifying Web Transactions -- Application -- Modelling and Analysing the Contract Net Protocol - Extension Using Coloured Petri Nets -- Program Repair Suggestions from

Graphical State-Transition Specifications -- Verifying Erlang  
Telecommunication Systems with the Process Algebra  $\pi$ CRL --  
Specification Framework II -- NQSL - Formal Language and Tool  
Support for Network Quality-of-Service Requirements -- Timed Mobile  
Ambients for Network Protocols -- A Specification Framework for  
Earth-Friendly Logistics -- Theory -- A Hierarchy of Equivalences for  
Probabilistic Processes -- Multiset Bisimulations as a Common  
Framework for Ordinary and Probabilistic Bisimulations -- Reliability of  
Networked Systems -- Detecting Communication Protocol Security  
Flaws by Formal Fuzz Testing and Machine Learning -- Using SPIN to  
Detect Vulnerabilities in the AACS Drive-Host Authentication Protocol  
-- Protocol Modeling with Model Program Composition.

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## Sommario/riassunto

This book constitutes the refereed proceedings of the 28th IFIP WG 6.1 International Conference on Formal Techniques for Networked and Distributed Systems, FORTE 2008, held in Tokyo, Japan, in June 2008 co-located with TestCom/FATES 2008. The 19 revised full papers and 1 revised short paper presented together with 1 invited talk were carefully reviewed and selected from 44 submissions. The papers cover new approaches, concepts and experience in the application of formal methods for the specification and verification of distributed systems and applications. Special focus is put on ubiquitous, grid, and mobile computing systems, and also on the application of formal techniques to service oriented architectures as well as security issues in networked systems. The papers are organized in topical sections on abstraction, verification, specification framework, application, theory, and reliability of networked systems.

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