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Titolo	Formal Techniques for Networked and Distributed Systems – FORTE 2008 [[electronic resource]] : 28th IFIP WG 6.1 International Conference Tokyo, Japan, June 10-13, 2008 Proceedings / / edited by Kenji Suzuki, Teruo Higashino, Keiichi Yasumoto, Khaled El-Fakih
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Collana	Programming and Software Engineering ; ; 5048
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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
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Formato	Materiale a stampa
Livello bibliografico	Monografia
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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 π 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.

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.
