

1. Record Nr.	UNINA9910484106003321
Titolo	Quantitative Evaluation of Systems : 11th International Conference, QEST 2014, Florence, Italy, September 8-10, 2014, Proceedings // edited by Gethin Norman, William Sanders
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-10696-1
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (XIV, 422 p. 111 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 8657
Disciplina	004.25
Soggetti	Computer science Electronic digital computers - Evaluation Computer science - Mathematics Mathematical statistics Computer Science Logic and Foundations of Programming System Performance and Evaluation Probability and Statistics in Computer Science Theory of Computation
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	Keynote Presentations -- Quantitative Evaluation of Service Dependability in Shared Execution Environments -- Multi-agent Networked Systems with Adversarial Elements -- Kronecker and Product Form Methods -- A Structured Solution Approach for Markov Regenerative Processes -- Low-Rank Tensor Methods for Communicating Markov Processes -- Hybrid Systems -- A Statistical Approach for Computing Reachability of Non-linear and Stochastic Dynamical Systems -- Formal Synthesis and Validation of Inhomogeneous Thermodynamically Controlled Loads -- Finite Abstractions of Stochastic Max-Plus-Linear Systems -- Mean Field/Population Analysis -- Mean Field for Performance Models with Generally-Distributed Timed Transitions -- Mean-Field Approximation and Quasi-Equilibrium Reduction of Markov Population Models -- On Performance of Gossip Communication in a Crowd-Sensing Scenario --

Models and Tools -- Probabilistic Model Checking of DTMC Models of User Activity Patterns -- Performance Comparison of IEEE 802.11 DCF and EDCA for Beaconing in Vehicular Networks -- A New Great SPN GUI for GSPN Editing and CSLTA Model Checking -- The Octave Queueing -- Package -- Simulation -- A Perfect Sampling Algorithm of Random Walks with Forbidden Arcs -- Modelling Replication in No SQL Datastores -- Queueing, Debugging and Tools -- On Queues with General Service Demands and Constant Service Capacity -- Simulation Debugging and Visualization in the Mobius Modeling Framework -- Scalar: A Distributed Scalability Analysis Framework -- Non-intrusive Scalable Memory Access Tracer -- Process Algebra and Equivalences -- Probabilistic Programming Process Algebra -- PALOMA: A Process Algebra for Located Markovian Agents -- On the Discriminating Power of Testing Equivalences for Reactive Probabilistic Systems: Results and Open Problems -- Automata and Markov Process Theory -- Continuity Properties of Distances for Markov Processes -- Deciding the Value 1 Problem for Reachability in 1-Clock Decision Stochastic Timed Automata -- Decidable Problems for Unary PFAs -- Applications, Theory and Tools -- A Scalable Approach to the Assessment of Storm Impact in Distributed Automation Power Grids -- Compositionality Results for Quantitative Information Flow -- CyberSAGE: A Tool for Automatic Security Assessment of Cyber-Physical Systems -- Probabilistic Model Checking -- Symbolic Approximation of the Bounded Reachability Probability in Large Markov Chains -- Accelerating Parametric Probabilistic Verification.

Sommario/riassunto

This book constitutes the proceedings of the 11th International Conference on Quantitative Evaluation of Systems, QEST 2014, held in Florence, Italy, in September 2014. The 24 full papers and 5 short papers included in this volume were carefully reviewed and selected from 61 submissions. They are organized in topical sections named: Kronecker and product form methods; hybrid systems; mean field/population analysis; models and tools; simulation; queueing, debugging and tools; process algebra and equivalences; automata and Markov process theory; applications, theory and tools; and probabilistic model checking.
