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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2165
Disciplina	511.3
Soggetti	Algebra Computers Probabilities Computer logic Software engineering Programming languages (Electronic computers) Theory of Computation Probability Theory and Stochastic Processes Logics and Meanings of Programs Software Engineering Programming Languages, Compilers, Interpreters
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Paper -- Advances in Model Representations -- Contributed Papers -- Faster and Symbolic CTMC Model Checking -- Reachability Analysis of Probabilistic Systems by Successive Refinements -- Beyond Memoryless Distributions: Model Checking Semi-Markov Chains -- Coin Lemmas with Random Variables -- MoDeST — A Modelling and Description Language for Stochastic Timed Systems -- Randomization Helps in LTL Model Checking -- An Efficient Kronecker Representation for PEPA Models -- Reward Based Congruences: Can We Aggregate More? -- Using Max-Plus Algebra for the Evaluation of Stochastic Process Algebra Prefixes -- Expressing Processes with Different Action

Durations through Probabilities -- Quantifying the Dynamic Behavior of Process Algebras -- Implementing a Stochastic Process Algebra within the Möbius Modeling Framework.

Sommario/riassunto

This book constitutes the refereed proceedings of the Joint Workshop on Process Algebra and Performance Modeling and Probabilistic Methods in Verification, PAPM-PROBMIV 2001, held in Aachen, Germany in September 2001. The 12 revised full papers presented together with one invited paper were carefully reviewed and selected from 23 submissions. Among the topics addressed are model representation, model checking, probabilistic systems analysis, refinement, Markov chains, random variables, stochastic timed systems, Max-Plus algebra, process algebra, system modeling, and the Möbius modeling framework.
