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Soggetti	Computer science Software engineering Artificial intelligence Computer science - Mathematics Mathematical statistics Computer networks Theory of Computation Software Engineering Artificial Intelligence Probability and Statistics in Computer Science Computer Communication Networks Mathematics of Computing
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Machine Learning for Reliability Analysis of Large Scale Distributed Systems -- Tracking the Race Between Deep Reinforcement Learning and Imitation Learning -- SafePILCO: a Software Tool for Safe and Data-Efficient Policy Synthesis -- StochNetV2: a Tool for Automated Deep Abstractions for Stochastic Reaction Networks -- Alternative Characterizations of Probabilistic Trace Equivalences on Coherent Resolutions of Nondeterminism -- Probabilistic Model Checking of AODV -- Multi-player Equilibria Verification for Concurrent Stochastic

Games -- Loss-size and Reliability Trade-offs Amongst Diverse Redundant Binary Classifiers -- Bayesian Inference by Symbolic Model Checking -- CogQN: A Queueing Model that Captures Human Learning of the User Interfaces of Session-based Systems -- A Matlab Toolkit for the Analysis of Two-level Processor Sharing Queues -- M/M/1 Vacation Queue with Multiple Thresholds: A Fluid Analysis -- Bounding Mean First Passage Times in Population Continuous-Time Markov Chains -- Markovian Arrival Processes in Multi-Dimensions -- Automatic Pre- and Postconditions for Partial Differential Equations -- Importance of Interaction Structure and Stochasticity for Epidemic Spreading: A COVID-19 Case Study -- The Dynamic Fault Tree Rare Event Simulator -- Entropy Measurement of Concurrent Disorder -- Hardening Critical Infrastructure Networks Against Attacker Reconnaissance -- Sensitivity Analysis and Uncertainty Quantification of State-Based Discrete-Event Simulation Models through a Stacked Ensemble of Metamodels -- Flexible Nets -- Verifying Probabilistic Programs. .

Sommario/riassunto

This book constitutes the proceedings of the 17th International Conference on Quantitative Evaluation Systems, QEST 2020, held in Vienna, Austria, in August/September 2020. The 12 full papers presented together with 7 short papers were carefully reviewed and selected from 42 submissions. The papers cover topics such as classic measures involving performance and reliability, quantification of properties that are classically qualitative, such as safety, correctness, and security as well as analytic studies, diversity in the model formalisms and methodologies employed, and development of new formalisms and methodologies.
