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Soggetti	Software engineering Computer communication systems Computer system failures Operating systems (Computers) Computer science—Mathematics Algorithms Software Engineering Computer Communication Networks System Performance and Evaluation Operating Systems Mathematics of Computing Algorithm Analysis and Problem Complexity
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Nota di contenuto	Stochastic Bounds and Histograms for Active Queues Management and Networks Analysis -- Subsampling for Chain-referral Methods -- System Occupancy of a Two-class Batch-service Queue with Class- dependent Variable Server Capacity -- Applying Reversibility Theory for the Performance Evaluation of Reversible Computations -- Fluid Approximation of Pool Depletion Systems -- A Smart Neighbourhood Simulation Tool for Shared Energy Storage and Exchange -- Fluid Analysis of Spatio-Temporal Properties of Agents in a Population Model

-- Efficient Implementations of the EM-algorithm for Transient Markovian Arrival Processes -- A Retrial Queue to Model a Two-relay Cooperative Wireless System with Simultaneous Packet Reception -- Fingerprinting and Reconstruction of Functionals of Discrete Time Markov Chains -- On the Blocking Probability and Loss Rates in Nonpreemptive Oscillating Queueing Systems -- Analysis of a Two-Class Priority Queue with Correlated Arrivals from Another Node -- Planning Inland Container Shipping: A Stochastic Assignment Problem -- A DTMC Model for Performance Evaluation of Irregular Interconnection Networks with Asymmetric Spatial Traffic Distributions -- Whittle's Index Policy for Multi-target Tracking with Jamming and Nondetections -- Modelling Unfairness in IEEE 802.11g Networks with Variable Frame Length -- Optimal Data Collection in Hybrid Energy-harvesting Sensor Networks -- A Law of Large Numbers for M/M/c/Delayoff-Setup Queues with Nonstationary Arrivals -- Energy-Aware Data Centers with s-Staggered Setup and Abandonment -- Sojourn Time Analysis for Processor Sharing Loss System with Unreliable Server -- Performance Modelling of Optimistic Fair Exchange. .

Sommario/riassunto

This book constitutes the refereed proceedings of the 23rd International Conference on Analytical and Stochastic Modelling Techniques and Applications, ASMTA 2016, held in Cardiff, UK, in August 2016. The 21 full papers presented in this book were carefully reviewed and selected from 30 submissions. The papers discuss the latest developments in analytical, numerical and simulation algorithms for stochastic systems, including Markov processes, queueing networks, stochastic Petri nets, process algebras, game theory, etc. .
