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Nota di contenuto	Telecommunication Networks -- Comparison of Multi-service Routing Strategies for IP Core Networks -- Analysis of Opportunistic Spectrum Access in Cognitive Ad Hoc Networks -- How Would Ants Implement an Intelligent Route Control System? -- User Access to Popular Data on the Internet and Approaches for IP Traffic Flow Optimization -- Wireless and Mobile Networks -- Solving Multiserver Systems with Two Retrial Orbits Using Value Extrapolation: A Comparative Perspective -- Study of the Path Average Lifetime in Ad Hoc Networks Using Stochastic Activity Networks -- Overall Delay in IEEE 802.16 with Contention-Based Random Access -- Analyzing the Impact of Various Modulation and Coding Schemes on the MAC Layer of IEEE 802.11 WLANs -- Simulation -- Improving the Efficiency of the Proxel Method by Using Individual Time Steps -- Efficient On-Line Generation of the Correlation Structure of F-ARIMA Processes -- Different Monotonicity Definitions in Stochastic Modelling -- Queueing Systems and Distributions -- Preliminary Results on a Simple Approach to G/G/c-Like Queues --

Moments Characterization of Order 3 Matrix Exponential Distributions -- Analysis of Discrete-Time Buffers with General Session-Based Arrivals -- On the Characterization of Product-Form Multiclass Queueing Models with Probabilistic Disciplines -- Queueing and Scheduling in Telecommunication Networks -- A Queueing Model for the Non-continuous Frame Assembly Scheme in Finite Buffers -- Equilibrium in Size-Based Scheduling Systems -- Scalable Model for Packet Loss Analysis of Load-Balancing Switches with Identical Input Processes -- Mixed Finite-/Infinite-Capacity Priority Queue with General Class-1 Service Times -- Model Checking and Process Algebra -- Stochastic Automata Networks with Master/Slave Synchronization: Product Form and Tensor -- Weak Stochastic Comparisons for Performability Verification -- Numerical Method for Bounds Computations of Discrete-Time Markov Chains with Different State Spaces -- Performance and Reliability Analysis of Various Systems -- Approximate Conditional Distributions of Distances between Nodes in a Two-Dimensional Sensor Network -- An Analytic Model for Optimistic STM with Lazy Locking -- Optimal Adaptive Inspection Planning Process in Service of Fatigued Aircraft Structures -- Stochastic Modelling of Poll Based Multimedia Productions -- Modeling and Analysis of Checkpoint I/O Operations.

Sommario/riassunto

This book constitutes the refereed proceedings of the 16th International Conference on Analytical and Stochastic Modeling Techniques and Applications, ASMTA 2009, held in Madrid, Spain, in June 2009 in conjunction with ECMS 2009, the 23rd European Conference on Modeling and Simulation. The 27 revised full papers presented were carefully reviewed and selected from 55 submissions. The papers are organized in topical sections on telecommunication networks; wireless & mobile networks; simulation; queueing systems & distributions; queueing & scheduling in telecommunication networks; model checking & process algebra; performance & reliability analysis of various systems.
