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Nota di contenuto	Algorithmic Analysis of a Two-Class Multi-Server Heterogeneous Queueing System with a Controllable Cross-Connectivity -- Queueing Analysis of Cognitive Radio Networks with Finite Number of Secondary Users -- On Reliability of a Double Redundant Renewable System -- Queueing Analysis for a Mixed Model of Carsharing and Ridesharing -- An All Geometric Discrete-Time Multiserver Queueing System -- Dealing with Dependence in Stochastic Network Calculus { Using Independence as a Bound -- Map-Reduce Process Algebra: a Formalism to Describe Directed -- Acyclic Graph Task-Based Jobs in Parallel Environments -- Performance Evaluation of Scheduling Policies for the DRCMPSP -- An Algorithm for Improved Proportional-Fair Utility for Vehicular Users -- Method of Asymptotic Division Analysis of Queueing System $M M N$ with feedback -- Exact Performance Analysis of

Retrial Queues with Collisions -- In nite-Server Bulk Queue with MMPP Arrivals -- Dissipativity Of The Quantum Measurement Model.

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Sommario/riassunto

This book constitutes the refereed proceedings of the 25th International Conference on Analytical and Stochastic Modelling Techniques and Applications, ASMTA 2019, held in Moscow, Russia, in October 2019. Methods of analytical and stochastic modelling are widely used in engineering to assess and design various complex systems, like computer and communication networks, and manufacturing systems. The 13 full papers presented in this book were carefully reviewed and selected from 22 submissions. The papers detail a diverse range of analysis techniques, including Markov processes, queueing theoretical results, reliability of stochastic systems, stochastic network calculus, and wide variety of applications.

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