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Nota di contenuto	Queueing Theory I -- A Batch-Service Queueing Model with a Discrete Batch Markovian Arrival Process -- Queueing System MAP/PH/N with Propagated Failures -- Analysis of a Discrete-Time Queueing System with an NT-Policy -- Packet Loss Minimization in Load-Balancing

Switch -- Queueing Theory II -- The Preemptive Repeat Hybrid Server  
 Interruption Model -- Networks of Symmetric Multi-class Queues with  
 Signals Changing Classes -- Product-Form Solutions for Models with  
 Joint-State Dependent Transition Rates -- The qnetworks Toolbox: A  
 Software Package for Queueing Networks Analysis -- Specification  
 Languages and Tools -- Rewriting Logic Based Performance Estimation  
 of Embedded Systems -- A Formal Language toward the Unification of  
 Model Checking and Performance Evaluation -- Security Evaluation of  
 Layered Intrusion Tolerant Systems -- Stochastic PERT and CAST Logic  
 Approach for Computer Support of Complex Operation Planning --  
 Telecommunication Systems I -- Perfect Sampling of Load Sharing  
 Policies in Large Scale Distributed Systems -- Stochastic Comparisons  
 for Performability of Telecommunication Systems -- Model-Based  
 Stochastic Simulation of P2P VoIP Using Graph Transformation System  
 -- Performance Evaluation of Media Segmentation Heuristics Using  
 Non-markovian Multi-class Arrival Processes -- Telecommunication  
 Systems II -- A Formal Approach to Investigate the Performance of  
 Modern E-commerce Services -- Leader Election in Anonymous Radio  
 Networks: Model Checking Energy Consumption -- Upper Bound on  
 Overall Delay in Wireless Broadband Networks with Non Real-Time  
 Traffic -- Estimation -- Robustness of the Whittle Estimator Applied to  
 Non-Gaussian Long-Range Dependent Processes -- Service Time  
 Estimation with a Refinement Enhanced Hybrid Clustering Algorithm --  
 Invariant Embedding Technique and Its Applications for Improvement  
 or Optimization of Statistical Decisions -- Prediction -- Prediction  
 Model Selection and Spare Parts Ordering Policy for Efficient Support of  
 Maintenance and Repair of Equipment -- Prediction-Based Dynamic  
 Target Interception Using Discrete Markov Chains -- Neural Networks  
 as Surrogate Models for Measurements in Optimization Algorithms --  
 Stochastic Modelling -- Limit Behavior of the Hybrid Approximation of  
 Stochastic Process Algebras -- Analysis of an Automated Auction with  
 Concurrent Multiple Unit Acceptance Capacity -- Congestive Collapse  
 and Its Avoidance in a Dynamic Dial-a-Ride System with Time Windows.

## Sommario/riassunto

It is our pleasure to present the proceedings of the 17th International Conference on Analytical and Stochastic Modelling and Applications (ASMTA 2010). The conference was held in the iconic Wales Millennium Centre in Cardiff, the vibrant capital city of Wales. ASMTA conferences have become established quality events in the calendar of analytical, numerical and even simulation experts in Europe and well beyond. In addition to regular participants from the main centers of expertise from the UK, Belgium, Germany, Russia, France, Italy, Latvia, Spain, Hungary and many other countries, we receive newcomers with interesting contributions from other countries such as Algeria, Canada and the USA. Although the conference has become a well-established event, every year ASMTA features something new. This year, and for the first time, the conference was held completely independently and standalone. The decision was not easy as it has always been co-located with the European Conference on Modelling and Simulation. There were some who questioned its chances, but the outcome proved to be excellent. The quality of this year's program was exceptionally high. The conference started with a keynote talk on process algebra by a distinguished speaker in the person of Jane Hillston from the Department of Computer Science of the University of Edinburgh. In addition, 28 papers were accepted for presentation. As ever, the International Program Committee reviewed the submissions critically and in detail, thereby helping in making the final decision and also in providing the authors with useful comments to improve their papers.

We would therefore like to thank every member of the International Program Committee for their time and efforts. We thank everyone for their contribution to ASMTA 2010 and hope readers will enjoy the conference proceedings.

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