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Autore	Highland Harold Joseph
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Nota di contenuto	Invited Paper -- A Modular and Scalable Simulation Tool for Large Wireless Networks -- Software Performance Tools -- Designing Process Replication and Threading Policies: A Quantitative Approach -- SREPT: Software Reliability Estimation and Prediction Tool -- Reusable Software Components for Performability Tools, and Their Utilization for Web-Based Configurable Tools -- Compositional Performance Modelling with the TIPPtool -- Network Performance -- QNA-MC: A Performance Evaluation Tool for Communication Networks with Multicast Data Streams -- Response Times in Client-Server Systems -- A Queueing Model with Varying Service Rate for ABR -- Simulative Performance Evaluation of the Temporary Pseudonym Method for Protecting Location Information in GSM Networks -- Measurement and Modelling Tools -- A Model Driven Monitoring Approach to Support the Multi-view Performance Analysis of Parallel Responsive Applications -- Instrumentation of Synchronous Reactive Systems for Performance Analysis: A Case Study -- Algorithmic Techniques -- A Perturbation and Reduction Based Algorithm -- A Comparison of Numerical Splitting-based Methods for Markovian Dependability and Performability Models -- Probability, Parallelism and the State Space Exploration Problem -- An Improved Multiple Variable Inversion

Algorithm for Reliability Calculation -- Case Studies -- Performance Evaluation of Web Proxy Cache Replacement Policies -- Performance Analysis of a WDM Bus Network Based on GSPN Models? -- Scheduling Write Backs for Weakly-Connected Mobile Clients -- On Choosing a Task Assignment Policy for a Distributed Server System -- Petri Net Techniques -- Structured Characterization of the Markov Chain of Phase-Type SPN -- Markov Regenerative Stochastic Petri Nets with General Execution Policies: Supplementary Variable Analysis and a Prototype Tool -- MVA Techniques -- A Queue-Shift Approximation Technique for Product-Form Queueing Networks -- Experiments with Improved Approximate Mean Value Analysis Algorithms -- Software Performance Evaluation Methods -- Extending SMART2 to Predict the Behaviour of PL/SQL-based Applications -- Performance Evaluation of Distributed Object Architectures -- Performance Engineering Evaluation of CORBA-based Distributed Systems with SPE·ED -- Tool Presentations -- Edinet: An Execution Driven Interconnection Network Simulator for DSM Systems -- Snuffle: Integrated Measurement and Analysis Tool for Internet and its Use in Wireless In-House Environment -- A Tool to Model Network Transient States with the Use of Diffusion Approximation -- HIMAP: Architecture, Features, and Hierarchical Model Specification Techniques -- SvPablo: A Multi-language Performance Analysis System -- A Toolbox for Functional and Quantitative Analysis of DEDS -- A Reconfigurable Hardware Tool for High Speed Network Simulation -- JAGATH: A Methodology and its Application for Distributed Systems Performance Evaluation and Control -- Hierarchical Stochastic Reward Net Solver Package.

Sommario/riassunto

The need to evaluate computer and communication systems performance and dependability is continuously growing as a consequence of both the increasing complexity of systems and the user requirements in terms of timing behaviour. The 10th International Conference on Modelling Techniques and Tools for C- puter Performance Evaluation, held in Palma in September 1998, was organised with the aim of creating a forum in which both theoreticians and practitioners could interchange recent techniques, tools, and experiences in these areas. This meeting follows the predecessor conferences of this series: 1984 Paris 1988 Palma 1994 Wien 1985 Sophia Antipolis 1991 Torino 1995 Heidelberg 1987 Paris 1992 Edinburgh 1997 Saint Malo The tradition of this conference series continued this year where many high quality papers were submitted. The Programme Committee had a di cult task in selecting the best papers. Many ne papers could not be included in the program due to space constraints. All accepted papers are included in this volume. Also, a set of submissions describing performance modelling tools was transformed into tool presentations and demonstrations. A brief description of these tools is included in this volume. The following table gives the overall statistics for the submissions.