QEST'05 programme

Monday 19th September

09:00 - 17:30	Tutorials
Evening	Social programme

Tuesday 20th September

09:00 - 09:30	Opening
09:30 - 10:30	**Session 1: Invited talk of Pierpaolo Degano** Quantitative descriptions of biological systems
10:30 - 11:00	Break
11:00 - 12:30	**Session 2: Petri nets and process algebras** • Introducing probability within state class analysis of dense-time-dependent systems *Giacomo Bucci, Riccardo Piovosi, Luigi Sassoli and Enrico Vicario* • On the use of exact lumpability in partially symmetrical well-formed nets *Souheib Baarir, Claude Dutheillet, Serge Haddad and Jean-Michel Ilié* • Fluid Flow Approximation of PEPA models *Jane Hillston*
12:30 - 13:30	Lunch
13:30 - 14:30	**Session 3: Bisimulation and approximations** • Comparative analysis of bisimulation relations on alternating and non-alternating probabilistic models *Roberto Segala and Andrea Turrini* • An approximation algorithm for labelled Markov processes: towards realistic approximation *Alexandre Bouchard, Norm Ferns, Prakash Panangaden and Doina Precup*
14:30 - 15:00	Break
15:00 - 17:30	**Session 4: Tool presentations**

Wednesday 21st September

Time	
09:00 - 10:00	**Session 5: Invited talk of Leana Golubchik** Picture-perfect streaming over the Internet: is there hope?
10:00 - 10:30	**Session 6: Workload characterization/measurements** • The use of optimal tracking filters to track parameters of performance models *Murray Woodside, Tao Zheng and Marin Litoiu*
10:30 - 11:00	Break
11:00 - 12:30	**Session 7: Performability** • Evaluating the dependability of a LEO satellite network for scientific applications *Eleftheria Athanasopoulou, Purvesh Thakker and William H. Sanders* • On the performance of D-redundant disk systems *Eitan Bachmat* • Multisolution of complex performability models in the OsMoSys/DrawNET framework *Francesco Moscato, Marco Gribaudo, Nicola Mazzocca and Valeria Vittorini*
12:30 - 13:30	Lunch
13:30 - 15:00	**Session 8: Markovian models** • Steady state solution for models with geometric and finite support activity duration *András Horváth* • A MAP fitting approach with independent approximation of the inter-arrival time distribution and the lag correlation *Peter Buchholz, Gábor Horváth and Miklós Telek* • Approximate analysis of stochastic models by self-correcting aggregation *Peter Bazan and Reinhard German*
15:00 - 15:30	Break
15:30 - 16:30	**Session 9: Model checking** • Model checking for survivability! *Lucia Cloth and Boudewijn Haverkort* • Checking LTL properties of recursive Markov chains *Mihalis Yannakakis and Kousha Etessami*
16:30 -	Social programme

Thursday 22nd September

09:00 - 10:00	**Session 10: invited talk of Thomas Sterling** Challenges to evaluating Petaflops systems
10:00 - 10:30	**Session 11: Architecture measurements/modeling I** • X-Ray: automatic measurement of hardware parameters *Kamen Yotov, Keshav Pingali and Paul Stodghill*
10:30 - 11:00	Break
11:00 - 12:30	**Session 12: Architecture measurements/modeling II** • Workload propagation – overload in bursty servers *Qi Zhang, Alma Riska and Erik Riedel* • Performance modeling and architecture exploration of network processors *Govind Shenoy and Govindarajan Ramaswamy* • Integrating multiple forms of multithreaded execution on SMT processors: a quantitative study with scientific workloads *Matthew Curtis-Maury, Tanping Wang, Christos Antonopoulos and Dimitrios Nikolopoulos*
12:30 - 13:30	Lunch
13:30 - 15:00	**Session 13: Markov chains/importance sampling** • QBDs with marked time epochs: a framework for transient performance measures *Benny Van Houdt and Chris Blondia* • Importance sampling simulation of population overflow in two-node tandem networks *Victor Nicola and Tatiana Zaburnenko* • On optimal importance sampling for discrete-time Markov chains *Werner Sandmann*
15:00 - 15:30	Closing session