—— TOOLS 2000 — PROGRAMME ——

March 27–30, 2000
Motorola University, Schaumburg, Illinois, USA

`http://tools2000.informatik.rwth-aachen.de/`

Monday, March 27, 2000

09.00 Opening address

09.30 Invited talk (*Chair: B. Haverkort*)

Mark Crovella. *Performance Evaluation with Heavy Tailed Distributions: A Good News / Bad News Story.*

10.30 Break

11.00 Tool presentations I (*Chair: A. van Moorsel*)

12.00 Lunch

13.00 Queueing network models I (*Chair: R. Puigjaner*)

P. Maly, C.M. Woodside. *Layered Modeling of Hardware and Software, with Application to a LAN Extension Router.*

M. Litoiu, J. Rolia. *Object Allocation for Distributed Applications with Complex Workloads.*

14.00 Stochastic Petri nets I (*Chair: G. Balbo*)

R. German. *Iterative Analysis of Markov Regenerative Models.*

A. Horvath, A. Puliafito, M. Scarpa, M. Telek. *Analysis and Evaluation of non-Markovian Stochastic Petri Nets.*

15.00 Break

15.30 Simulation (*Chair: P. Buchholz*)

B. Tuffin, K.S.Trivedi. *Implementation of Importance Splitting techniques in SPNP.*

J. Incera, R. Marie, D. Ros, G. Rubino. *FluidSim: a tool to simulate fluid models of high-speed networks.*

16.30–17.30 Mobile network optimisation (*Chair: R. Marie*)

C. Bauer. *Minimization of the impact of subscriber mobility on the resources of a GSM network.*

M.D. Hamilton, I. Mitrani. *Optimal allocation policies for mobile agents.*

Tuesday, March 28, 2000

09.00 Invited talk (*Chair: R. Harper*)

L. Alkalai. *Dependable Spacecraft for Future Deep Space Explorations.*

10.00 Break

10.30 Queueing networks II (*Chair: I. Mitrani*)

R.M.M. Leao, E. de Souza e Silva, S.C. de Lucena. *A Set of Tools for Traffic Modeling, Analysis and Experimentation.*

C. Juiz, R. Puigjaner. *Queueing Analysis of Pools in Soft Real-Time Systems.*

P. Cremonesi, E. Rosti, G. Serazzi. *Xaba: exact, approximate, and and asymptotic solvers for multi-class closed queueing networks.*

12.00 Lunch

13.00 Formal methods & performance evalaution (*Chair: J.-P. Katoen*)

G. Clark, S. Gilmore, J. Hillston, M. Ribaudo. *Exploiting Modal Logic to Express Performance Measures.*

P. King, R. Pooley. *Derivation of Petri Net Performance Models from UML Specifications of Communications Software.*

14.00 Tool presentations II (*Chair: A. van Moorsel*)

15.00 Break

15.30 Tool demonstrations (*Chair: A. van Moorsel*)

18.00 Visit to Chicago and Banquet

Wednesday, March 29, 2000

09.00 Measurement tools & applications (*Chair: C.M. Woodside*)

P.H. Hughes, G. Brataas. *Scalability of a Workstation Cluster Architecture for Video-on-Demand Applications.*

W. Karl, M. Schulz, J. Trinitis. *Multilayer Online-Monitoring for Hybrid DSM systems on top of PC clusters with a SMiLE.*

G.T. Paixao, W. Meira Jr., V.A.F. Almeida, D.A. Menasce, A.M. Pereira. *Design and Implementaion of a Tool for Measuring the Performance of Complex E-Commerce Sites.*

10.30 Break

11.00 Stochastic Petri nets II (*Chair: M. Telek*)

A. Zimmerman, J. Freiheit, R. German, G. Hommel. *Petri Net Modelling and Performability Evaluation with TimeNET 3.0.*

S. Donatelli, P. Kemper. *Integrating Synchronization with Priority into a Kronecker representation.*

12.00 Lunch

13.00 Queueing network models III (*Chair: C. Smith*)

A. Heindl. *Decomposition of General Tandem Queueing Networks with MMPP input.*

M. Meo, E. de Souza e Silva, M. Ajmone Marsan. *Exact and Approximate Solutions for a Class of Infinite Markovian Models.*

P.G. Harrison, C.M. Llado. *Performance Evaluation of a Distributed Enterprise Data Mining System.*

14.30 Break

15.00 Panel

16.30–17.00 Closing session

Thursday, March 30, 2000

09.00 Parallel tutorials I (*Chair: S. Garg*)

T. Norton. *A practical approach to capacity modelling.*

J. Luthi. *Parameter uncertainties in performance and dependability models.*

12.00 Lunch

13.00 Parallel tutorials II (*Chair: S. Garg*)

J. Han, H. Levendel. *Architecture availability certification centered around modelling: A gap in the system development process.*

P. Buchholz. *Analysis of large Markov chains based on Kronecker algebra.*

17.00 Conference end