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VALUETOOLS

2nd International Conference on

PERFORMANCE EVALUATION METHODOLOGIES AND TOOLS

www.valuetools.org

23-25 October, 2007, Nantes (France)

In cooperation with ACM Sigmetrics and ACM Sigsim



In recent years, a range of performance evaluation methodologies and tools has been developed within disparate research communities for the purposes of evaluation, design, and model reduction. The aim of the **Performance Evaluation Methodologies and Tools** conference is to build bridges between these communities, bringing theory and practice together in order to:

- compare and debate the complete range of performance evaluation methodologies and their implementation into tools;
- promote interdisciplinary flow of technical information among industry systems designers and researchers.

Performance evaluation techniques will draw from the following:

- Network calculus
- Advanced simulation tools
 - Simulation of rare events
 - Parallel/distributed simulations
 - Variance reduction techniques
 - Large deviations
 - Hybrid system simulation
- Stochastic processes
 - Stochastic geometry
 - Long-range dependence
 - Self-similarity
 - Point processes
 - Traffic models and measurements
- Discrete event systems
 - Petri nets
 - Max-plus algebra
 - Supervisory control and optimization
- Queueing theory
 - Analytical models
 - Approximation methods
 - (In)sensitivity
 - Dynamic fluid models
 - Diffusion models
 - Dam processes
 - Perturbation approaches
 - Control of queues

Envisaged applications are drawn from, but are not restricted to, the following areas:

- Networking
- Distributed Systems
- Computer Systems
- Manufacturing Systems
- Communication Systems
- Call Centers
- Reliability / Performability
- Road Traffic and Transportation Systems
- Optimization (including game theory and convex optimization)
- Graph Theory (incl. random graphs)
- Interdisciplinary Methodologies (economic, biological and social models)

Selected papers will be published in a special issue of **Performance Evaluation** and others for fast track publication in **Discrete Event Dynamic Systems**. All accepted papers will be made available in ACM Digital Library. The event is technically sponsored by ACM Sigmetrics and ACM Sigsim.

Valuetools 2007 features four co-located **Workshops**:

October 22	October 26
GameComm: Game theory in Communication networks (Deadline: May 5)	Inter-Perf: Workshop on interdisciplinary systems approach in performance evaluation and design of computer & communication systems (Deadline: April 30)
NSTools: 1 st Int. Workshop on Network Simulation Tools (Deadline: April 30)	SMCtools: Int. Workshop on Tools for solving Structured Markov Chains (Deadline: May 10)

Important Dates

Full papers due: April 30, 2007, VERY LAST

Notification of acceptance: July 5, 2007

Final version due: July 22, 2007

Submissions: Authors are invited to submit full papers of up to 10 pages in ACM conference proceedings format through COCUS (<http://cocus.create-net.it>)