In cooperation with IEEE Computer Society

1st International Conference on
PERFORMANCE EVALUATION METHODOLOGIES AND TOOLS
www.valuetools.org
11-13 October, 2006, Pisa (Italy)

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
- Stochastic processes
  - Stochastic geometry
  - Long-range dependence
  - Self-similarity
  - Point processes
  - Traffic models and measurements
- Discrete event systems
  - Petri nets
  - Max-plus algebra
- Queuing 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
- Communication Systems
- Call Centers
- Road Traffic

We also solicit papers on applications of Optimization (including game theory and convex optimization), Graph Theory (including random graphs) and Interdisciplinary Methodologies (economic, biological and social models) in the above areas.

Selected papers will be considered for publication in special issues of Performance Evaluation and Discrete Event Dynamic Systems.

Best Student Papers Award. Papers with a student as a primary author will be considered for the Valuetools recognition prize. Student authors must clearly indicate with their submission that they would like to be considered for this award.

Important Dates
Full paper due: April 10, 2006
Notification of acceptance: June 25, 2006
Final version due: July 10, 2006

Submission Instructions
Authors are invited to submit full papers of up to 10 pages in IEEE conference proceedings format through COCUS (http://cocus.create-net.it)
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<td><strong>AAA-IDEA</strong></td>
<td>Advanced architectures and algorithms for Internet delivery and applications</td>
<td>Giovanni Pacifici (<a href="mailto:giovanni@us.ibm.com">giovanni@us.ibm.com</a>), Virgilio A. F. Almeida (<a href="mailto:virgilio@dcc.ufmg.br">virgilio@dcc.ufmg.br</a>), Novella Bartolini (<a href="mailto:novella@di.uniroma1.it">novella@di.uniroma1.it</a>)</td>
<td>May 30, 2006</td>
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<tr>
<td>SMCtools</td>
<td>Tools for solving structured markov chains</td>
<td>Beatrice Meini (<a href="mailto:meini@dm.unipi.it">meini@dm.unipi.it</a>), Benny van Houdt (<a href="mailto:benny.vanhoudt@ua.ac.be">benny.vanhoudt@ua.ac.be</a>)</td>
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<tr>
<td><strong>WNS2</strong></td>
<td>Workshop on ns-2: the IP network simulator</td>
<td>Tania Jimenez (<a href="mailto:tania.altman@univ-avignon.fr">tania.altman@univ-avignon.fr</a>), David Ros (<a href="mailto:david.ros@enst-bretagne.fr">david.ros@enst-bretagne.fr</a>)</td>
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<tr>
<td>GameNets</td>
<td>Game theory for communications and networks</td>
<td>Luiz A. DaSilva (<a href="mailto:ldasilva@vt.edu">ldasilva@vt.edu</a>), Allen B. MacKenzie (<a href="mailto:mackenab@vt.edu">mackenab@vt.edu</a>), Jacqueline Morgan (<a href="mailto:morgan@unina.it">morgan@unina.it</a>)</td>
<td>May 31, 2006</td>
<td>Oct 14, 2006</td>
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<tr>
<td>Inter-Perf</td>
<td>Interdisciplinary systems approach in performance evaluation and design of computer &amp; communications systems</td>
<td>Milan Vojnovic (<a href="mailto:milanv@microsoft.com">milanv@microsoft.com</a>), Sean Collins (<a href="mailto:e.j.collins@bristol.ac.uk">e.j.collins@bristol.ac.uk</a>)</td>
<td>May 17, 2006</td>
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