

# VALUETOOLS 2009

Fourth International Conference on Performance Evaluation Methodologies and Tools

October 20-22, 2009 - Pisa, Italy

<http://www.valuetools.org> - email: [valuetools@valuetools.org](mailto:valuetools@valuetools.org)



## Scope

In recent years, a range of performance evaluation methodologies and tools has been developed within various 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.

## Topics

Topics include, but are not limited to:

### Performance evaluation techniques

- Advanced simulation tools
  - Simulation of rare events
  - Parallel/distributed simulations
  - Variance reduction techniques
  - Large deviations
  - Hybrid system simulation
- Discrete event systems
  - Petri nets
  - Max-plus algebra
  - Automata, timed automata
- Queueing theory
  - Markovian queues and networks
  - Network calculus
  - Analytical methods
  - Approximation methods
  - (In)Sensitivity
  - Dynamic Fluid Models
  - Diffusion models
  - Dam processes
  - Perturbation approaches
  - Control of Queues
- Other stochastic models
  - Stochastic geometry
  - Long-range dependence
  - Self-similarity
  - Point processes
  - Traffic models and measurements

- Other topics
  - Supervisory control
  - Reliability/performability tools
  - Neural networks and decision tools
  - Game theory and pricing
  - Resource allocation
  - Complex Networks

### Applications

- Computer networks (including peer-to-peer systems and traffic control services)
- Computer systems (e.g., grid computing)
- Communication systems
- Wireless networks (including MAC and routing protocols, cellular networks, Ad Hoc/Sensor etc.)
- Distributed systems
- Road traffic and transportation systems
- Public utility networks
- Manufacturing systems and supply chains
- Call centers
- Economic, biological and social systems

## Submission

Authors are invited to submit papers of up to 10 pages in a PDF file, complying with the ACM conference proceedings format, through EasyChair. Each paper will be peer reviewed for quality and correctness by at least three reviewers. Only original papers, written in English, which have not been published previously elsewhere, and are not currently under review for publication elsewhere, will be accepted. At least one author of each accepted paper must register and present the work at the conference.

## Publication and awards

The event is organized by ICST in cooperation with the ACM Special Interest Group on performance evaluation (SIGMETRICS), the Society for Modeling and Simulation International (SCS), and the Movimento Italiano Modellazione e Simulazione (MIMOS). All accepted papers will be made available in the ACM Digital Library and EU-DL. Best papers, after further reviews, will be considered for publication in a special issue of the Performance Evaluation Journal and on Discrete Events Dynamic Systems Journal. A Best Paper and Best Student Paper will be selected by peer reviews and will be acknowledged with awards presented during the social event.

## Steering Committee

Imrich Chlamtac (Co-Chair)  
*Create-Net Res. Association and Univ. of Trento, Italy*  
Eitan Altman (Co-Chair), *INRIA, France*  
Luciano Lenzini, *University of Pisa, Italy*  
Sean Meyn, *University of Illinois, US*  
Daniele Miorandi, *Create-Net Res. Association, Italy*  
Stavros Toumpis, *University of Cyprus, Cyprus*  
Uri Yechiali, *Tel Aviv University, Israel*

## Organizing Committee

### Conference General Chair

Giovanni Stea, *University of Pisa, Italy*

### Technical Program Co-Chairs

Jean Mairesse, *University of Paris 7, France*  
Jose' Fernando Mendes, *Univ. of Aveiro, Portugal*

### Local Chairs

Daniele Migliorini *University of Pisa, Italy*  
Carlo Vallati - *University of Pisa, Italy*

### Workshop Chairs

Guillaume Urvoy-Keller, *Institute EURECOM, France*  
Jussi Kangasharju, *University of Helsinki, Finland*

### Publicity Chairs

Anne Bouillard, *ENST Bretagne, France*  
Greg Franks, *Carleton University, Canada*

### Web Chair

Matteo Andreozzi, *University of Pisa, Italy*

### Conference Coordinator

Maria Morozova, *ICST, Hungary*

## Technical Program Committee

Panos Argyrakis, *University of Thessaloniki, Greece*  
Konstantin Avrachenkov, *INRIA, France*  
Ivo Adan, *Eindhoven University of Technology, Netherlands*  
Urtzi Ayesta, *LAAS-CNRS and BCAM, France*  
Francois Baccelli, *ENS, INRIA, France*  
Nick Bambos, *Stanford University, USA*  
Marian Boguna, *University of Barcelona, Spain*  
Vivek Borkar, *Tata Institute Mumbai, India*  
Maria-Carla Calzarossa, *University of Pavia, Italy*  
Laurent Decreusefond, *Telecom Paris, France*  
Andreas Deutsch, *Technische Univ. Dresden, Germany*  
Paolo De Los Rios, *EPFL, Switzerland*  
Olivier Dousse, *Nokia, Switzerland*  
Rachid El Azouzi, *University of Avignon, France*  
Santo Fortunato, *ISI, Torino, Italy*  
Bruno Gaujal, *Inria, France*  
Peter W. Glynn, *Stanford University, USA*  
Tania Jimenez, *University of Avignon, France*  
Matthieu Jonckheere, *T.-U. Eindhoven, Netherlands*  
Marco Gribaudo, *University of Turin, Italy*  
Moshe Haviv, *Hebrew University of Jerusalem, Israel*  
Giuseppe Iazeolla, *University of Roma "Tor Vergata", Italy*  
Jussi Kangasharju, *University of Helsinki, Finland*  
Iordanis Koutsopoulos, *University of Thessaly, Greece*  
Matthieu Latapy, *University Paris 6, France*  
Anna T. Lawniczak, *University of Guelph, Canada*  
D. Manjunath, *IIT Bombay, India*  
Evsey Morozov, *Inst. of Applied Mathematical Res., Karelia*  
Alexandre Proutiere, *Microsoft Research, UK*  
Bozidar Radunovic, *Microsoft Research, UK*  
Matteo Sereno, *Univ. degli Studi di Torino, Italy*  
Nahum Shimkin, *Technion, Israel*  
George Stamoulis, *AUEB, Greece*  
Nicolas Stier-Moses, *Columbia University, USA*  
Guillaume Urvoy-Keller, *Institut Eurecom, France*  
Enrico Vicario, *University of Florence, Italy*  
Gabriel Wainer, *Carleton University, Canada*  
Bert Zwart, *CWI, the Netherlands*

---

## Important Dates

Paper Submission Deadline: ~~April 20, 2009~~ - April 30, 2009 (hard)

Notification of Acceptance: July 6, 2009

Camera Ready Deadline: July 27, 2009

Conference Date: October 20-22, 2009

---

## Co-Located Workshops

- SMCTools, 4th Int. Workshop on Tools for solving Structured Markov Chains (<http://www.smctools.org>)
- NSTools, 2nd Int. Workshop on Network Simulation Tools (<http://www.nstools.org>)
- WSNPerf, 1st Int. Workshop on Performance Methodologies and Tools for Wireless Sensor Networks (<http://www.wsnperf.org>)
- ROSSA 2009, 1st Int. Workshop on Run-time mOdelS for Self-managing Systems and Applications (<http://rossa2009.org>)
- GameComm, 3rd Int. Workshop on Game Theory in Communication Networks (<http://www.game-comm.org>)