QEST '04

Quantitative Evaluation of Sys-Tems '04

CALL FOR PAPERS

1st International Conference on Quantitative Evaluation of SysTems
(formerly TOOLS + PNPM + PAPM/ProbMIV)

University of Twente, Enschede, the Netherlands
September 27-30, 2004

SCOPE & TOPICS

The 1st International Conference on Quantitative Evaluation of Systems combines three events (the International Conference on Modeling Techniques and Tools for Computer Performance Evaluation (TOOLS), the International Workshop on Petri Nets and Performance Models (PNPM), and the Joint International Workshop on Process Algebras and Performance Modeling and Probabilistic Methods In Verification (PAPM-ProbMIV)) that have discovered an increasing convergence in their interests and in their communities of researchers. The conference will be the major forum for contributions on all kinds of evaluation and verification of computer and communication systems, through measurements and stochastic models, possibly incorporating non-deterministic behaviour.

Topics of interest cover the areas of modelling formalisms and methodologies, measurements, analytical and numerical evaluation, simulation and verification, and theory of probabilistic systems. Moreover, tools for supporting the practical application of research results in all the above areas, and case studies showing the practical applicability of such results, are also explicitly requested. Quantitative properties of interest include, but are not limited to, performance, dependability (e.g., reliability, availability), safety, security, survivability, correctness, timeliness, and efficiency.

We encourage submissions on all of the following topics: probabilistic decision-making and planning; verification of stochastic and probabilistic systems; formal specification techniques; stochastic and timed Petri nets; stochastic process algebras; probabilistic extensions of UML; schedulability analysis; stochastic and timed automata; concurrency theory for probabilistic systems; performance, dependability, and robustness testing; analysis of randomized algorithms; numerical and analytical evaluation techniques; efficient simulation techniques; approximate schemes; optimization techniques; model-checking algorithms; non-Markovian system models and algorithms; queueing networks; hybrid and hierarchical modelling and evaluation techniques; performance, dependability, and security evaluation; measurement and benchmarking; software tools in support of all these quantitative evaluation techniques; and practical experience reports and case studies showing the role of quantitative evaluation in the design of systems and applications including computer architecture, distributed and fault-tolerant systems, wireline and wireless communication, embedded systems, web-based systems, and safety-critical systems.

SUBMISSIONS

Submitted papers shall be written in English and should not exceed 20 double-spaced pages. Please follow the instructions for electronic submission given on the conference homepage. The final version will be limited to 10 pages in the IEEE double-column format. Papers must be unpublished and must not be submitted for publication elsewhere. The proceedings will be published by IEEE. All papers will be thoroughly reviewed by at least 3 referees on the basis of their originality and their scientific and practical contribution to the state of the art.

TOOL PRESENTATIONS

Special sessions will be arranged to present and demonstrate tools relevant to any topic covered by the conference. Please send a tool description (up to 6 pages in PDF) to the Tools Chair, Andrew Miner (asminer@iastate.edu). Accepted tool descriptions will appear in the conference proceedings (2 pages, IEEE format).

TUTORIALS

There will be one day of tutorials at the beginning of the conference. Tutorial proposals (up to 4 pages PDF) should be sent to the Tutorial Chair, Marco Bernardo (bernardo@sti.uniurb.it).

IMPORTANT DATES:

Abstract submission:	March 22, 2004
Paper submission:	March 29, 2004
Tools & tutorial submission:	April 30, 2004
Author notification:	May 24, 2004
Camera ready version:	June 21, 2004

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