



QEST '11

Quantitative
Evaluation of
Sys-
Tems '11

CALL
FOR
PAPERS

8th International Conference on Quantitative Evaluation of SysTems
September 5-8, 2011, Aachen, Germany

Co-located events:

22th International Conference on Concurrency Theory (CONCUR)
6th International Symposium on Trustworthy Global Computing (TGC)

Invited Speakers:

Parosh Abdulla (Uppsala University, Sweden)
Geoffrey Smith (Florida International University, USA)
Lothar Thiele (ETH Zurich, Switzerland)

www.qest.org/qest2011

Abstract submission: March 25, 2011
Paper / tool submission: April 1, 2011
Author notification: May 16, 2011
Camera ready version: June 6, 2011

Scope and Topics

QEST is the leading forum on evaluation and verification of computer systems and networks, through stochastic models and measurements. QEST has a broad range of interest — the common thread is that the evaluation be quantitative. The range of performance metrics of interest spans classical measures involving performance and reliability, as well as quantification of properties that are classically qualitative, such as safety, correctness, and security. QEST welcomes measurement-based studies as well as analytic studies. QEST welcomes diversity in the model formalisms and methodologies employed, as well as development of new formalisms and methodologies. QEST is keenly interested in case studies highlighting the role of quantitative evaluation in the design of “systems”, where the notion of system is broad. Systems of interest include computer hardware and software architectures, communication systems, embed systems and biological systems. Moreover, tools for supporting the practical application of research results in all of the above areas are of special interest, and therefore tool papers are sought. In short, QEST aims to create a sound methodological basis for assessing and designing systems using quantitative means.

Evaluation of Papers

All submitted papers will be thoroughly judged by at least three reviewers on the basis of their originality, technical quality, scientific or practical contribution to the state of the art, methodology, clarity, and adequacy of references. QEST considers five types of papers with additional reviewing criteria (in no particular order):

- *Theoretical*: advance our understanding, apply to non-trivial problems and be mathematically rigorous.
- *Methodological and technical*: describe situations that require the development and proposal of new analysis processes and techniques. Process structure and the individual steps should be clearly described. If the methodology has already been evaluated with applications, a brief description of the lessons learned would be very helpful.
- *Application*: describes a novel application, and compares with previous results (if any).
- *Tools*: should motivate the development of the new tools and the formalisms they support. Tool papers need neither discuss their theoretical underpinnings nor their algorithms. Instead, they should focus on the software architecture and discuss its practical capabilities with particular reference to the size and type of model it can handle within reasonable time and space limits.
- *Tool demonstration*: describe a relevant tool, as well as its features, evaluation, or any other information that may demonstrate the merits of the tool.

Submissions

We invite submissions of original papers related to the aforementioned topics. Submissions must be in English, IEEE double-column format, and must indicate the above paper type. Submission instructions can be found at www.qest.org. Submitted papers should not exceed 10 pages (2 pages for tool demonstrations). Additional material for the aid of the reviewers (e.g., proofs) can be sent in a clearly marked appendix. Papers must be unpublished and not be submitted for publication elsewhere. PC members, except program co-chairs, may submit papers. All accepted papers (including tool demonstrations) will appear in the Conference Proceedings published by the Conference Publishing Services (CPS), and must be presented at the conference by one of the authors. A best-paper award will be presented at the conference. Selected papers will appear in a special issue of the journal Performance Evaluation.

Tool presentations

Tool presentation sessions will be arranged to present and demonstrate tools relevant to conference topics. Accepted tool descriptions will appear in the conference proceedings.



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