



Call for Papers: ICSE Workshop (A-MOST) Advances in Model-Based Software Testing

St Louis, Missouri, USA, 15-16 May 2005
<http://a-most.argreenhouse.com/>



Workshop Organization

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Ashish Jain, *Telcordia Technologies, USA*
Jesse Poore, *U. of Tennessee, USA*

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There is a need for renewed stress on rigorous and disciplined approaches to software testing as a result of the growing focus of product liability on software. As an industrial reality, an order of magnitude reduction in the cost of effective testing is needed. Model-based testing methodologies can provide this discipline and rigor. A premise of model-based software testing is the creation of models of the software being tested as opposed to adhoc and manual creation of test suites. Despite progress in model-based software testing the practice is limited to relatively few organizations. The goal of this workshop is to bring together researchers and practitioners to describe, discuss, and advance the current state of the art AND the current state of the practice in model-based software testing.

Submissions are solicited that describe new research, tools and technologies, noticeable industry experience reports, and position papers which will collectively advance the state-of-art and the state-of-practice in the area of Model-Based Software Testing. Topics of interest include, but are not limited to:

☐ MODELS

- Black Box (Requirements Based)
- White Box (Code Based)
- OMG's MDA
- Markov Chain
- Combinatorial Designs
- Systems of Systems
- Embedded Systems

☐ PROCESS

- Test Generation Algorithms
- Test Oracles
- Tracing Requirements to Test Cases
- Automated Change Management
- Testing Tools
- Test Management Systems

☐ MEASUREMENT

- Estimating Reliability
- Coverage Analysis
- Risk Assessment
- Return on Investment
- Case Studies
- Test Stopping Criteria

Review Process: At least two members of the Program Committee will review each submission. The program committee as a whole will meet to review and discuss the submissions and make final decisions about which submissions to accept for presentation at the workshop.

Submission Guidelines: Papers should be submitted in PDF format and should not exceed seven pages (including all text, figures, references and appendices). The results described must be unpublished and should not be under review elsewhere. Each submitted paper must conform to the ICSE 2005 workshop format described at <http://www.cs.wustl.edu/icse05/Submissions/PaperFormat.shtml>.

Please email PDF format submissions to organizers@research.telcordia.com.

For more information about submissions, contact Ashish Jain at jain@research.telcordia.com

Selected authors would be invited to submit a full-paper for a special IST (Information and Software Technology, Elsevier) Journal issue on Model-Based Testing.

Important Submission Dates

Workshop paper submission deadline	28	February	2005
Author notification	21	March	2005
Final publication ready submissions	4	April	2005
Workshop program	15-16	May	2005