



A-MOST 2009: 5th Workshop on Advances in Model Based Testing April 1, 2009, Denver, Colorado, USA (associated with ICST 2009)



Important Dates

Submission of full papers:
Friday, 9 January 2009
Notification of acceptance:
27 February 2009
Camera-ready papers due:
20 March 2009
Date of workshop: 1 April 2009

Organizers

Paul Ammann
Gordon Fraser
Franz Wotawa

Keynote

Doron Peled, *Bar Ilan University, Israel*

Programme Committee

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Call for papers

The increasing use of software and the growing system complexity, in size, heterogeneity, autonomy, physical distribution, and dynamicity make focused software system testing a challenging task. Recent years have seen an increasing industrial and academic interest in the use of models for designing and testing software. Success has been reported using a range of types of models using a variety of specification formats, notations and formal languages, such as UML, SDL, B and Z.

The goal of the A-MOST workshop is to bring together researchers and practitioners to discuss the current state of the art and practice as well as future prospects for Model-Based software Testing (MBT).

Topics of interest include:

- Models for component, integration and system testing
- Product-line models
- (Hybrid) embedded system models
- Systems-of-systems models
- Architectural models
- Models for orchestration and choreography of services
- Executable models and simulation
- Environment and use models
- Non-functional models
- Model-based test generation algorithms
- Application of model checking techniques in model-based testing
- Tracing from requirements model to test models
- Performance and predictability of model-driven development
- Test model evolution during the software lifecycle
- Risk-based approaches for MBT
- Generation of testing-infrastructures from models
- Combinatorial approaches for MBT
- Statistical testing
- Non-functional/Quantitative MBT
- Estimating dependability (e.g., security, safety, reliability) using MBT
- Coverage metrics & measurements f. structural & non-/functional models
- Cost of testing, economic impact of MBT
- Empirical validation, experiences, case studies using MBT

Publication

We invite submissions of full-length papers that describe new research, tools, technologies, and industry experience, as well as position papers. Papers should be submitted in PDF format and should not exceed ten pages (including all text, figures, references and appendices). Workshop Proceedings will be published in the IEEE Digital Library, therefore each submitted paper must conform to the IEEE Format and Submission Guidelines. Check the workshop webpage for further details:

<http://amost09.ist.tugraz.at/>