About the Workshop

Executable models have the potential of bringing major benefits to the development of complex systems, as they provide abstractions of complex system behaviors and allow for the performance of early analyses of that behaviors. Despite the potential benefits of executable models, there are still many challenges to solve, such as the lack of maturity in the definition of and tooling for executable modeling languages, and the limited experience with executable modeling in much of the software and systems development industry.

The objective of the International Workshop on Executable Modeling (EXE) is to draw attention to the potentials and challenges of executable modeling and advance the state-of-the-art. It provides a forum for exchanging recent results, ideas, opinions, and experiences in executable modeling.

Call for Papers

Topics of interest for the workshop include but are not limited to the following:

- Methodologies, languages, techniques, and methods for designing and implementing executable modeling languages
- Case studies and experience reports on the adoption of executable modeling
- Model execution tools for the (dynamic) validation, verification, and testing of systems
- Tracing model executions and analyzing model execution traces
- Automation techniques for the development of model execution tools
- Evolution in the context of executable modeling (e.g., evolution of executable modeling languages, execution semantics, executable models, tools)
- Verification of semantic conformance (e.g., among executable modeling languages, executable models)
- Customization of executable modeling languages and model execution tools
- Composition, extension, and reuse of executable modeling languages and model execution tools
- Integration of executable modeling languages and programming languages
- Semantics-aware model transformations and code generation
- Scalability of model execution and execution-based model analysis
- Execution of partial and underspecified models
- Model execution in the presence of non-determinism and concurrency
- Surveys and benchmarks of different approaches for the development of executable modeling languages, model execution, and execution-based model analysis

Solicited are research papers, experience reports, position papers and tool demonstrations. More details may be found at the workshop Website.

Important Dates

Submission deadline: July 7, 2017
Author notification: July 28, 2017
Workshop: September 18, 2017

Organizers

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