Workshop on Multi-Paradigm Modeling: Concepts and Tools

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ACM/IEEE 9th International Conference on Model Driven Engineering Languages and Systems

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Scope

Today complex software-based systems often integrate different, previously isolated subsystems where different aspects such as the dynamic behavior or static structure are captured by notations using different paradigms (e.g. statecharts and user interface models, block diagrams for control, …). Therefore, multiple modeling paradigms have to be integrated for their model-driven development. This is especially true when - besides general purpose languages such as UML - domain specific languages are also employed. This first workshop on the multi-paradigm modeling addresses this need by providing a forum for researchers and practitioners to discuss the arisen issues.

For language engineering the specific areas of interests include, but are not limited to, the following topics:
– concepts for multiple paradigm composition
– results or analysis of existing multi-paradigm approaches
– generic techniques needed to reason about compositionality
– scalable composition

For tool engineering, the following incomplete list of topics applies:
– concepts for tool support of multi-paradigm modeling
– language engineering constructs in tools with respect to compositionality
– descriptions of tools for multi-paradigm modeling

In addition, we request descriptions of existing tools for multi-paradigm modeling. The description should follow a catalogue of requirements:
– Metamodeling: root metamodel and the used instantiation relation(s)
– Support for concrete syntax
– Executability
– Support for code generation
– Transformation features: modularity, textual or visual specification, execution control
– Traceability
– Features for model composition in different formalisms at the syntax and semantics level

Important dates

Paper submission deadline: 31 July 2006
Notification of acceptance: 21 August 2006
Camera-ready papers due: 15th September 2006

Submissions

The position paper must be submitted electronically as PDF via http://avalon.aut.bme.hu/mpm06/. There could be conceptual papers as well as tool papers. The paper submission should not exceed 10 pages and follow the ENTCS style. Papers submitted to the workshop will be reviewed by peers. Accepted papers will be published in the workshop proceedings in the form of a technical report. The extended version of the two best papers is published by LNCS. We plan to publish the post proceedings as a special issue of an electronic journal such as ENTCS.