

ISOLA Special Track on Model-Driven SOA (MDS 2008)

Special Track Proposal for the 3rd ISoLA Symposium (Int. Symposium on Leveraging Applications of Formal Methods, Verification and Validation).

Schahram Dustdar, Karl M. Göschka, Hong-Linh Truong, Uwe Zdun
Distributed Systems Group
Vienna University of Technology
Austria
{dustdar|goeschka|truong|zdun}@infosys.tuwien.ac.at

Service-oriented architectures (SOA) are increasingly used in the context of business processes, enterprise application integration, business-to-business communication, and many other application areas. As a consequence, many modeling domains need to be considered and the different kinds of models need to be integrated. For instance, among many other modeling domains, we need to consider component architectures, message flows, transactions, dependability, security, workflows/business processes, programming language (snippets), business object designs, and organizational models. In addition, application domains introduce domain models, such as banking or insurance domain models. For many of the modeling domains, formal models have been proposed, but in many cases they are not well integrated with each other and/or the technologies used to implement them. The model-driven approach offers a chance to overcome this problem.

The special track aims at bringing together researchers and practitioners who work in this area. The Special Track will be part of the 3rd ISoLA Symposium (Int. Symposium on Leveraging Applications of Formal Methods, Verification and Validation).

Topics of interest include:

- Integration of (formal) models in a model-driven tool chain
- Integration of rigorous development methods with model-driven techniques
- Integration of various (formal) models in a SOA using model-driven techniques
- Validation and verification of models in a model-driven approach
- Mapping (formal) models to (various) technologies using model-driven techniques
- Model-driven development methodology for SOA
- Tools for support of model-driven SOA
- Model transformations of SOA models
- QoS awareness and SLA contracts in model-driven SOA
- Application areas and case studies