

Welcome to the Fourth Domain-Specific Modeling Workshop – DSM'04

Domain-Specific Modeling aims at raising the level of abstraction beyond programming by specifying the solution directly using domain concepts. In a number of cases the final products can be generated from these high-level specifications. This automation is possible because of domain-specificity: both the modeling language and code generators fit to the requirements of a narrow domain only, often in a single company.

This is the fourth workshop on Domain-Specific Modeling, following the encouraging experiences from the earlier workshops at past OOPSLA conferences (Tampa 2001, Seattle 2002 and Anaheim 2003). During the time the DSM workshops have been organized, interest in domain-specific modeling languages, metamodeling and supporting tools has increased greatly. To name just a few examples:

- Bill Gates* has said visual modeling will be the most significant innovation in the next 10 years, reducing coding 'by a factor of five'.
- Microsoft has unveiled the Whitehorse domain-specific modeling editors for Visual Studio, with an SDK to come that will allow developers to build their own DSM editors.
- IBM has released the Eclipse Modeling Framework and Graphical Editor Framework, offering another way to build your own DSM editor.
- Software Development Magazine chose MetaCase's MetaEdit+ DSM environment as a finalist in this year's Jolt software productivity awards.

The objective of the workshops is to bring together practitioners and researchers on the field of DSM to discuss and share experiences, present new ideas on modeling and tools. The workshop follows the same structure found effective during the past workshops: presentations of selected papers in the morning and group work and its reporting afternoon. This year the papers are organized into five themes: experiences from the industry, cases of DSM language creation, DSM based on Model-Driven Architecture, tool support and transformations. Together all these contributions form a basis for fruitful discussions on creation, use and refinement of DSM and supporting tools. The electronic version of the proceedings, presentation slides and group work results is available at www.dsmforum.org/events.

We thank our program committee who donated their time and energy to review the papers. We hope you find the results of DSM'04 beneficial and enjoyable.

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* Application Development Trends, <http://www.adtmag.com/article.asp?id=9166>

4th WORKSHOP ON DOMAIN-SPECIFIC MODELING

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Contents

Experiences:

DSM creation practices

Defining Domain-Specific Modeling Languages: Collected Experiences 1
Janne Luoma, Steven Kelly, Juha-Pekka Tolvanen

Balancing Simplicity and Expressiveness: Designing Domain-Specific Models for the Reinsurance Industry 11
Hans Wegener

Language:

DSM language examples

A Visual Language for Describing Instruction Sets and Generating Decoders 23
Trevor Meyerowitz, Jonathan Sprinkle, Alberto Sangiovanni-Vincentelli

Domain Concepts for Communication Protocols 33
Juha Pärssinen

Markup Language Processing Languages —Where They've Gone Right, And Where They've Gone Wrong 45
Sam Wilmott

Model-Driven Architecture:

DSM based on MDA principles

Generating Model-Specific Editors for MDA 55
Anna Gerber, Michael Lawley

Rigorously Defined Domain Modeling Languages 61
Emanuel Grant, Krish Narayanan, Hassan Reza

Model-Driven Development and Assembly of Content Management Applications 69
Michael Richmond, Prasad Deshpande, Brendan McNichols, Savitha Srinivasan, Vladimir Zbarsky

Tools:

DSM support environments

Implementing a MOF-Based Metamodeling Environment Using Graph Transformations 83
Matthew Emerson, Janos Sztipanovits

Model Driven Production of Domain-Specific Modeling Tools 93
Bassem Kosayba, Raphaël Marvie, Jean-Marc Geib

An eXecutable Metamodelling Facility for Domain Specific Language Design 103
Tony Clark, Andy Evans, Paul Sammut, James Willans

Transformations:

Transforming models and metamodels

Specializing and Optimizing Declarative Domain Models 111
Srinivas Nedunuri, William Cook

A Generative Approach to Model Interpreter Evolution 121
Jing Zhang, Jeff Gray, Yuehua Lin