

# **The 9th OOPSLA Workshop on Domain-Specific Modeling**

<http://www.dsmforum.org/events/DSM09>

25-26 October 2008  
Orlando, Florida, USA

# Objectives

- Intensive collaborative sessions
- Attempt to discuss, share and solve challenging problems
- See others work, running DSMs, tools etc.
- Have something to report to OOPSLA community
- Have fun!

# About past workshops

- BOF at OOPSLA'00
- First DSVL workshop at OOPSLA'01
- ...
- 8th DSM workshop at OOPSLA'08

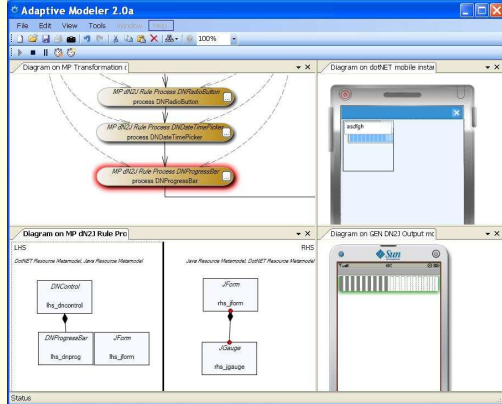
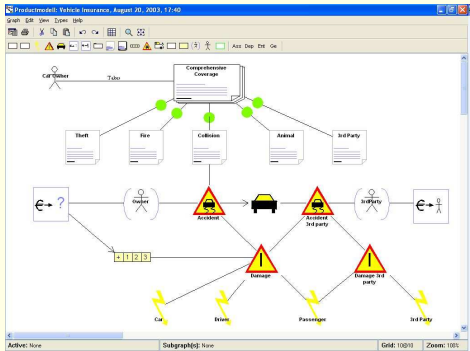
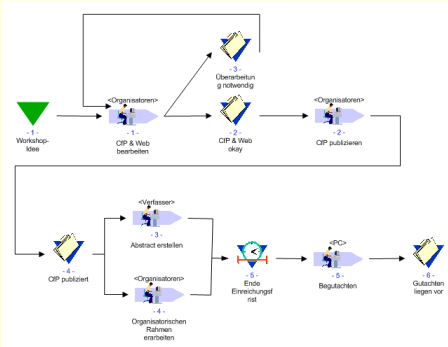
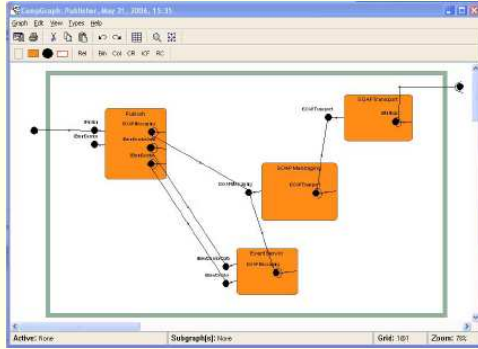
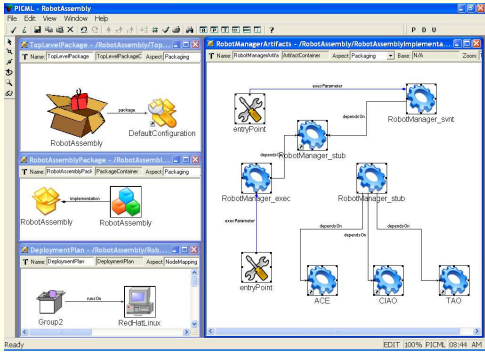
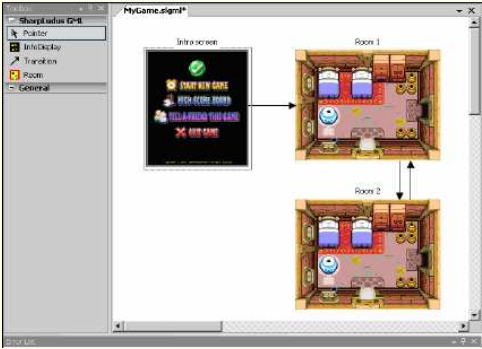
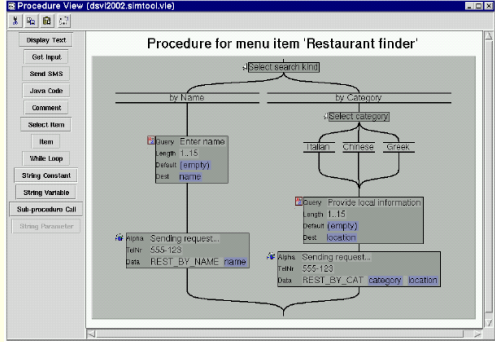
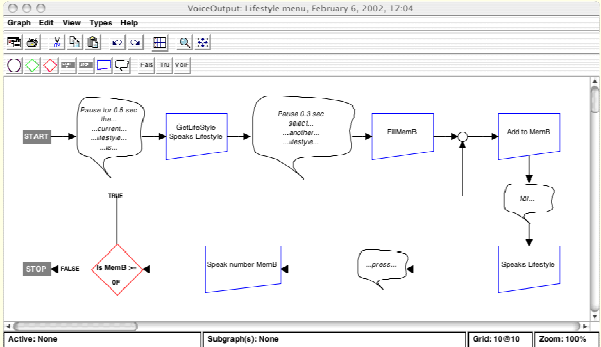
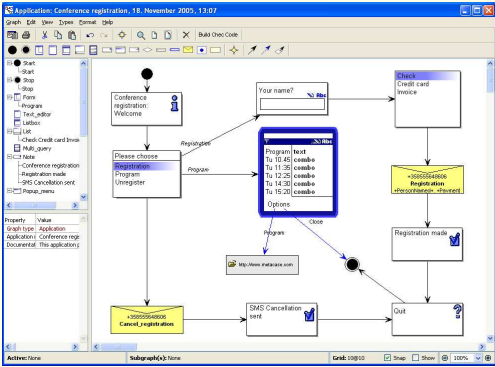


- Special issue on Domain-Specific Modeling
  - Journal of Visual Languages and Computing, Vol. 15., 3-4, June-August, 2004
- Special issue on Domain-Specific Languages and Modeling
  - IEEE Software, Jul/Aug, 2009

# What is Domain-Specific Modeling

- Captures domain knowledge (as opposed to code)
  - Uses domain abstractions
  - Applies domain concepts and rules as modeling constructs
  - Narrow down the design space
  - Focus on single range of products
- Lets developers design products using domain terms
  - Apply familiar terminology
  - Solve the RIGHT problems!
  - Solve problems only ONCE!

# Some demonstrated languages



The 9th OOPSLA workshop on Domain-Specific Modeling (DSM'09)

# About submissions

- 26 submissions
- From 11 countries
- 85 authors
- 18 accepted

country	authors	submitted
Hungary	3	0.75
Latvia	10	1.00
Austria	6	1.00
France	3	1.00
India	2	1.00
Denmark	3	1.00
Israel	3	1.17
Japan	7	2.00
United States	14	4.75
Finland	10	5.00
Germany	24	6.33

# DSM'09 PC

- Pierre America, Philips
  - Robert Baillargeon, Panasonic Automotive Systems, USA
  - Krishnakumar Balasubramanian, The MathWorks Inc.
  - Peter Bell, SystemsForge
  - Jorn Bettin, Sofismo
  - Philip T. Cox, Dalhousie University
  - Krzysztof Czarnecki, University of Waterloo
  - Brandon Eames, Utah State University
  - Robert France, Colorado State University
  - Ethan Jackson, Microsoft
  - Frederic Jouault, AtlanMod (INRIA & EMN)
  - Jürgen Jung, Deutsche Post
  - Steven Kelly, MetaCase
  - Gunther Lenz, Microsoft
  - Shih-Hsi Liu, California State University, Fresno
  - Kalle Lyytinen, Case Western Reserve University
  - Juha Pärssinen, VTT
  - Arturo Sanchez, Univ of North Florida
  - Jun Suzuki, University of Massachusetts, Boston
  - Markus Völter, independent consultant
  - Jos Warmer, Ordina
  - Jing Zhang, Motorola Research
- Organizing committee:**
- Juha-Pekka Tolvanen, MetaCase
  - Jeff Gray, University of Alabama at Birmingham
  - Matti Rossi, Helsinki School of Economics
  - Jonathan Sprinkle, University of Arizona

# Schedule and format

## Day 1

- 8:30 – Overview and introductions
- 9:00 – Paper presentations
- 11:50 – Group photo
- 12:00 – Lunch
- 14:00 – Paper presentations
- 16:50 – Discussion and closing the 1st day

## Day 2

- 8:30 – Paper presentations
- 9:30 – Paper presentations
- 11:20 – Group work topic selection
- 12:20 – Lunch with groups
- 14:00 – Group Work
- 16:00 – Group Work reporting and discussion
- 16:50 – Closing



# Publishing results

## ■ Workshop web-site

- [www.dsmforum.org/events/DSM09](http://www.dsmforum.org/events/DSM09)
- Papers
- Presentations
- Workgroup results
- Photos 😊

# Day 1: October 25

- 8:30 Introduction
- 9:00 Design Guidelines for Domain Specific Languages
  - Gabor Karsai, Holger Krahn, Claas Pinkernell, Bernhard Rumpe, Martin Schindler and Steven Völkel
- 9:25 Evaluating the Use of Domain-Specific Modeling in Practice
  - Juha Kärnä, Juha-Pekka Tolvanen and Steven Kelly
- 9:50 Break
  
- 10:00 Multi-Language Development of Embedded Systems
  - Thomas Kuhn, Soeren Kemmann, Mario Trapp and Christian Schäfer
- 10:25 ITML : A Domain-Specific Modeling Language for Supporting Business Driven IT Management
  - Ulrich Frank, David Heise, Heiko Kattenstroth, Donald F. Ferguson, Ethan Hadar and Marvin G. Waschke
- 10:50 Break
  
- 11:00 Domain Specific Languages for Business Process Management: a Case Study
  - Janis Barzdins, Karlis Cerans, Mikus Grasmanis, Audris Kalnins, Sergejs Kozlovics, Lelde Lace, Renars Liepins, Edgars Rencis, Arturs Sprogis and Andris Zarins
- 11:25 Use of a Domain Specific Modeling Language for Realizing Versatile Dashboards
  - Ulrich Frank, David Heise and Heiko Kattenstroth
  
- 11:50 Group photo, organizational details
- 12:00 Lunch
- 14:00 Program continues....

# Day 1: October 25

.... Continues

- 14:00 DSML-Aided Development for Mobile P2P Systems
  - Tihamer Levendovszky, Tamás Mészáros, Péter Ekler and Mark Asztalos
- 14:25 MobiDSL - a Domain Specific Language for Mobile Web : extending current systems to mobile platform without web programming
  - Ankita Kejriwal and Mangesh Bedekar
- 14:50 Break
- 15:00 MontiWeb - Modular Development of Web Information Systems
  - Michael Dukaczewski, Dirk Reiss, Bernhard Rumpe and Mark Stein
- 15:25 ProcDSL + ProcEd - a Web-based Editing Solution for Domain Specific Process-Engineering
  - Christian Berger, Tim Gülke and Bernhard Rumpe
- 15:50 Break
- 16:00 Model-View-Controller Architecture Specific Model Transformation
  - Hiroshi Kazato, Rafael Weiss, Shinpei Hayashi, Takashi Kobayashi and Motoshi Saeki
- 16:25 Evolution of a Domain Specific Language and its engineering environment – Lehman's laws revisited
  - Mika Karaila
- 16:50 Discussion and closing the first day

# Day 2: October 26

- 8:30 Automatic Domain Model Migration to Manage Metamodel Evolution
  - Daniel Balasubramanian, Tihamer Levendovszky, Anantha Narayanan, Gabor Karsai
- 8:55 Using Model-Based Testing for Testing Application Models in the Context of Domain-Specific Modelling
  - Janne Merilinna and Olli-Pekka Puolitaival
- 9:20 Break
- 9:30 Right or Wrong? – Verification of Model Transformations using Colored Petri Nets
  - Manuel Wimmer, Gerti Kappel, Angelika Kusel, Werner Retschitzegger, Johannes Schoenboeck and Wieland Schwinger
- 9:55 A Tooling Environment for Quality-Driven Model-Based Software Development
  - Janne Merilinna and Tomi Rätty
- 10:20 Break
- 10:30 Towards a Generic Layout Composition Framework for Domain Specific Models
  - Jendrik Johannes and Karsten Gaul
- 10:55 Model-Based Autosynthesis of Time-Triggered Buffers for Event-Based Middleware Systems
  - Jonathan Sprinkle and Brandon Eames
- 11:20 Group work topic selection
- 12:00 Lunch with groups
- 14:00 Group work
- 16:00 Group work reporting and discussion
- 16:50 Closing
- 17:00 Workshop ends