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
- Special issue on Domain-Specific Languages and Modeling
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
About submissions

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

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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
  - 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
  - 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, Leide 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
  - 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 Räty
- 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