

Proceedings

Fourth International Workshop on
Model-Based Methodologies for
Pervasive and Embedded Software

MOMPES 2007

Table of Contents

Fourth International Workshop on Model-Based Methodologies for
Pervasive and Embedded Software (MOMPES 2007)

Message from the Organizers	vii
MOMPES 2007 Committees	viii

Invited Papers

On the Applicability Scope of Model Driven Engineering <i>Jean Bézivin, Mikaël Barbero, and Frédéric Jouault</i>	3
Executable Use Cases: A Supplement to Model-Driven Development? <i>Jens Bæk Jørgensen</i>	8

Regular Papers

Session on Pervasive Systems

Towards a Model-Driven Approach for Ontology-Based Context-Aware Application Development: A Case Study <i>Nektarios Georgalas, Shumao Ou, Manooch Azmoodeh, and Kun Yang</i>	21
Tool Support for Model Driven Development of Pervasive Systems <i>Carlos Cetina, Estefania Serral, Javier Muñoz, and Vicente Pelechano</i>	33

Session on Modelling Approaches

A Generic Execution Framework for Models of Computation <i>Cécile Hardebolle, Frédéric Boulanger, Dominique Marcadet, and Guy Vidal-Naquet</i>	45
XIS—UML Profile for eXtreme Modeling Interactive Systems <i>Alberto Rodrigues da Silva, João Saraiva, Rui Silva, and Carlos Martins</i>	55

Session on Embedded Systems

ModES: Embedded Systems Design Methodology and Tools Based on MDE <i>Francisco Assis M. do Nascimento, Márcio F.S. Oliveira, and Flávio Rech Wagner</i>	67
Designing a Unified Process for Embedded Systems <i>Elvinia Riccobene, Patrizia Scandurra, Alberto Rosti, and Sara Bocchio</i>	77

Session on Software Product Lines

Adopting Computational Independent Models for Derivation of Architectural Requirements of Software Product Lines <i>Alexandre Bragança and Ricardo J. Machado</i>	91
Model-driven Development of Particle System Families <i>Michalis Anastasopoulos and András Balogh</i>	102

Session on Formal Approaches

Model-Driven Consistency Checking of Behavioural Specifications _____	115
<i>Bas Graaf and Arie van Deursen</i>	
Challenges when Using Model Driven Architecture in the Development of Safety Critical Software _____	127
<i>Philippa Conmy and Richard F. Paige</i>	
Author Index _____	137