

MODELS 2008 Conference Technical Program

Wednesday, October 1st

9h - 10h30	<p>Opening Invited talk: Jeff Kramer “Abstraction and Modelling - a complementary partnership” Room : Cassiopée</p>		
10h30 – 11h 00	<p>Coffee break</p>		
11h-12h30	<p>Session 1 “Model Transformation: Foundations” R* : Cassiopée - SC**: Gregor Engels <i>Algebraic models for bidirectional model synchronization</i> - Zinovy Diskin <i>An Invariant-based Method for the Analysis of Declarative Model-to-Model Transformations</i> - Jordi Cabot, Robert Claris ?, Esther Guerra, and Juan de Lara <i>Precise Semantics of EMF Model Transformations by Graph Transformation</i> - Enrico Biermann, Claudia Ernel, and Gabriele Taentzer</p>	<p>Session 2 “Requirements Modeling ” R: Spot - SC: Geri Georg <i>A Formal Metamodel for Problem Frames</i> - Denis Hatebur, Maritta Heisel, and Holger Schmidt <i>Visualization of use cases through automatically generated activity diagrams</i> - Javier J. Gutiérrez, Clémentine Nebut, Maria J. Escalona, Manuel Mejia and Isabel Ramos <i>Requirements Modeling and Validation via Bi-layer Use Case descriptions</i> - Avik Sinha, Matthew Kaplan, Amit Paradkar, and Clay Williams</p>	<p>Session 3 “ Domain-Specific Modeling” Room: Ariane 1- SC: Andrzej Wasowski <i>WebWorkFlow: An Object-Oriented Workflow Modeling Language for Web Applications</i> - Zef Hemel, Ruben Verhaaf, Eelco Visser <i>The Future of Train Signaling</i> - Andreas Svendsen, Øystein Haugen, Gøran K. Olsen, Erik Carlson, Jan Endresen, Thomas Moen, Kjell-Joar Alme <i>NAOMI - An Experimental Test Bed for Multi Modeling</i> - Trip Denton, Edward Jones, Srinivasan, Kenneth Owens, Richard Buskens</p>
12h30-14h00	<p>Lunch</p>		
14h00-15h30	<p>Invited talk: Patrick Rauhut “3D parametric models for aeroplanes - from idea to design” Room : Cassiopée</p>		
15h30-16h00	<p>Coffee break</p>		
16h00-17h30	<p>Session 4 “Model Transformation: Techniques ” R* : Cassiopée - SC**: Eelco Visser <i>Model Transformation as an Optimization Problem</i>- Marouane Kessentini, Houari Sahraoui, Mounir Boukadoum <i>Example-based Program Transformation</i> - Romain Robbes, Michele Lanza <i>Detecting Patterns of Poor Design Solutions Using Constraint Propagation</i> - Ghizlane El-Boussaidi , Hafedh Mili</p>	<p>Session 5: “Composition and Analysis of Behavioral Models ” R: Spot - SC: Benoit Baudry <i>A General Approach for Scenario Integration</i> Hongzhi Liang, Zinovy Diskin, Juergen Dingel, Ernesto Posse <i>Behavioral Modelling and Composition of Object Slices Using Event Observation</i> Iulian Ober, Bernard Coulette, Younes Lakhrissi <i>Scenario-based Static Analysis of UML Behavioral Properties</i> Lijun Yu, Robert B. France, Indrakshi Ray</p>	<p>Session 6: “Model Comprehension ” Room: Ariane 1- SC: Andy Schuerr <i>Constructing Models with the Human-Usable Textual Notation</i> - Louis M. Rose, Richard F. Paige, Dimitrios S. Kolovos, Fiona A.C. Polack <i>X3D-UML: 3D UML State Machine Diagrams</i> - Paul McIntosh, Margaret Hamilton, Ron van Schyndel Assessing the Influence of Stereotypes on the Comprehension of UML <i>Sequence Diagrams: A Controlled Experiment</i> - Marcela Genero, Jose A. Cruz-Lemus, Danilo</p>

Thursday, October 2nd

9h - 10h30	<p>Invited talk: Don Batory “The Objects and Arrows of Computational Design” Room : Cassiopée</p>		
10h30 – 11h 00	<p>Coffee break</p>		
11h-12h30	<p>Session 7 “Model Management ” R* : Cassiopée - SC**: Richard Paige <i>MOOGLE: a Model Search Engine - Daniel Lucrecio, Renata P. M. Fortes, Jon Whittle</i> <i>Managing model conflicts in distributed development</i> Antonio Cicchetti, Davide Di Ruscio, Alfonso Pierantonio <i>Meta-model Matching for Automatic Model Transformation Generation - Jean-Rémy Falleri, Marianne Huchard, Mathieu Lafourcade, Clémentine Nebut</i></p>	<p>Session 8 “Behavioral Conformance and Refinement” R: Spot - SC: Alexander Pretschner <i>Sufficient Criteria for Consistent Behavior Modeling with Refined Activity Diagrams - Stefan Jurack, Leen Lambers, Katharina Mehner, Gabriele Taentzer</i> <i>Implementation of Conformance Relation for Incremental Development of Behavioral Models</i> Hong-Viet Luong, Thomas Lambolais, and Anne-Lise Courbis <i>A Model-Based Framework for Statically and Dynamically Checking Component Interactions - Guillaume Wagnier, Prawee Sriplakich, Anne-Francoise Le Meur, Laurence Duchien</i></p>	<p>Session 9 “Metamodeling and Modularity ” Room: Ariane 1- SC: Juergen Dingel <i>Formal Definition of MOF 2.0 Meta-Modeling Components and Composition - Ingo Weisemoller, Andy Schurr</i> <i>Interfaces and Metainterfaces for Models and Metamodels - Anders Hessellund, Andrzej Wasowski</i> <i>Model & Metamodel, Metadata and Document Repository for Software and Data Integration - Nikola Milanovic, Ralf Kutsche, Timo Baum, Mario Carlsburg, Hatice Elmasgunes, Marco Pohl, Jurgen Widiker</i></p>
12h30-14h00	<p>Lunch</p>		
14h00-15h30	<p>Panel :” Past & Future of MDD” Moderator: Robert B. France Panelists: Richard M. Soley, Chairman and CEO, Object Management Group, USA Jeff Kramer, Professor of Distributed Computing, Dean of the Faculty of Engineering, Imperial College, UK Bran Selic, Retired IBM Distinguished Engineer, Canada Grady Booch, IBM Fellow and Chief Scientist, IBM Rational, USA Patrick Farail, Airbus, France Room : Cassiopée</p>		
15h30-16h00	<p>Coffee break Departures to the Airbus visit: 15h30 and 16h00</p>		
19h00	<p>Conference Banquet</p>		

Friday, October 3rd

8h30 - 10h00	<p>Session 10 “Constraints ” R* : Cassiopée - SC**: Gabriele Taentze</p> <p><i>Model Construction with External Constraints: An Interactive Journey from Semantics to Syntax</i> - Mikolas Janota, Victoria Kuzina, Andrzej Wasowski <i>A Benchmark for OCL Engine Accuracy, Determinateness, and Efficiency</i> - Martin Gogolla, Mirco Kuhlmann, Fabian Buttner <i>Contrary-To-Duties Constraints: from UML to Relational Model</i> - Pedro Nogueira Ramos</p>	<p>Session 11 “Model Analysis ” R: Spot - SC: Oystein Haugen</p> <p><i>A UML/SPT Model Analysis Methodology for Concurrent Systems Based on Genetic Algorithms</i> Marwa Shousha, Lionel Briand, Yvan Labiche <i>Integrating Performance Analysis in the Model Driven Development of Software Product Lines</i> - Rasha Tawhid, Dorina C. Petriu <i>A Model-driven Measurement Approach</i> Martin Monperrus, Jean-Marc Jézéquel, Joel Champeau, Brigitte Hoeltzener</p>	<p>Session 12 “Service-Oriented Architectures ” Room: Ariane 1- SC: Jean-Michel Bruel</p> <p><i>Specifying Service Composition Using UML 2.x and Composition Policies</i> - Judith E Y Rossebø, Ragnhild Kobro Runde <i>A Model-Based Framework for Security Policy Specification, Deployment and Testing</i> - Tejeddine Mouelhi, Franck Fleurey, Benoit Baudry, Yves Le Traon <i>A Pattern Language Verifier for Web-Based Enterprise Applications</i> - Bahman Zamani, Sahar Kayhani, Greg Butler</p>
10h00 – 10h30	Coffee break		
10h30-11h30	<p>Session 13: “Adaptive and Autonomic Systems ” R* : Ariane 1 - SC**: Robert France</p> <p><i>Automatically Generating Behavioral Models of Adaptive Systems to Address Uncertainty</i> - Heather Goldsby, Betty H.C. Cheng <i>Autonomic Management Policy Specification: from UML to DSML</i> - Benoit Combemale, Laurent Broto, Xavier Crégut, Michel Daydé, Daniel Hagimont</p>	<p>Session 14: “Empirical Studies ” Room: Spot - SC: Krzysztof Czarnecki</p> <p><i>Empirical Analysis of the Relation between Level of Detail in UML Models and Defect Density</i> - Ariadi Nugroho, Bas Flaton, Michel Chaudron <i>An Empirical Investigation on Dynamic Modeling in Requirements Engineering</i> - Giuseppe Scanniello, Carmine Gravino, Genoveffa Tortora</p>	
11h30-12h30	<p>Panel “Addressing the Challenges of Multi-Modeling for Domain-Specific Modeling Languages” Moderator : Doug Schmidt Panelists (to be confirmed): Trip Denton, Lockheed Martin Advanced Technology Labs, USA Edward A. Lee, University of California at Berkeley, USA Jose Meseguer, University of Illinois at Urbana-Champaign, USA Douglas C. Schmidt, Vanderbilt University, USA</p> <p>Room : Cassiopée</p>		

12h30-14h00	Lunch		
14h00-15h30	<p>Session 15: "Evolution and Reverse Engineering "</p> <p>R* : Cassiopée - SC** : Andrzej Wasowski</p> <p><i>Heterogeneous Coupled Evolution of Software Languages</i> - Sander Vermolen, Eelco Visser</p> <p><i>Automatability of Coupled Evolution of Metamodels and Models in Practice</i> - Markus Herrmannsdoerfer, Sebastian Benz, Elmar Juergens</p> <p><i>Enriching Reverse Engineering with Annotations</i> Andrea Bruehlmann, Tudor Girba, Orla Greevy, Oscar Nierstrasz</p>	<p>Session 16 "Modeling Language Semantics "</p> <p>R: Spot - SC: Bran Selic</p> <p><i>Towards a Formal Account of a Foundational Subset for Executable UML Models</i> - Michelle L. Crane, Juergen Dingel</p> <p><i>A Lightweight Approach for Defining the Formal Semantics of a Modeling Language</i> - Pierre Kelsen , Qin Ma</p> <p><i>Semantically Configurable Code Generation</i> - Adam Prout, Joanne M. Atlee, Nancy A. Day, Pourya Shaker</p>	<p>Session 17 "Dependability Analysis and Testing "</p> <p>Room: Ariane 1- SC: Oystein Haugen</p> <p><i>Safety Hazard Identification by Misuse Cases: Experimental Comparison of Text and Diagrams</i> - Tor Stalhane, Guttorm Sindre</p> <p><i>Adding Dependability Analysis Capabilities to the MARTE Profile</i> - Simona Bernardi, José Merseguer, and Dorina, C. Petriu</p> <p><i>Visual ScatterUnit: A Visual Model-Driven Testing Framework of Wireless Sensor Networks Applications</i> - Mohammad Al Saad, Nicolai Kamenzky, and Jochen Schiller</p>
15h30-16h00	Coffee break		
16h00-17h30	<p>Session 18 "Aspect-Oriented Modeling "</p> <p>R* : Cassiopée - SC** : Robert France</p> <p><i>Aspect-Oriented Model Weaving Beyond Model Composition and Model Transformation</i> - Pablo Sanchez, Lidia Fuentes, Dominik Stein, Stefan Hanenberg, Rainer Unland</p> <p><i>An Aspect-Oriented and Model-Driven Approach for Managing Dynamic Variability</i> - Brice Morin, Franck Fleurey, Nelly Bencomo, Jean-Marc Jézéquel, Arnor Solberg, Vegard Dehlen, Gordon Blair</p> <p><i>Managing Variability Complexity in Aspect-Oriented Modeling</i> - Brice Morin, Philippe Lahire, Gilles Vanwormhoudt, Alban Gaignard, Olivier Barais, Jean-Marc Jézéquel</p>	<p>Session 19: "Structural Modeling"</p> <p>R: Spot - SC: Ileana Ober</p> <p><i>Mapping the UML2 Semantics of Associations to a Java Code Generation Model</i> - Dominik Gessenharter</p> <p><i>Meaningful Composite Structures - On the Semantics of Ports in UML2</i> - Arnaud Cuccuru, Sebastien Gerard, Ansgar Radermacher</p> <p><i>A Systematic Approach to Connectors in a Multi-Level Modeling Environment</i> - Matthias Gutheil, Colin Atkinson, Bastian Kennel</p>	<p>Session 20: "Embedded Systems "</p> <p>Room: Ariane 1- SC: Bran Selic</p> <p><i>Model-based Quality Assurance of Automotive Software</i> - Jan Jurjens, David Trachtenherz, Daniel Reiss</p> <p><i>Ontology Guided Evolution of Complex Embedded Systems Projects in the Direction of MDA</i> - Lars Pareto, Miroslaw Staron, Peter Eriksson</p> <p><i>General mode controller for software on artificial satellite with model-based validation tool</i> - Toshihiro Obata</p>

*R: Room

**SC: Session Chair