

# MODELS 2014

## VALENCIA, SPAIN

September 28, 2014 to October 3, 2014

ACM/IEEE 17th International Conference on  
Model Driven Engineering Languages and Systems



# WORKSHOPS PROGRAM

[www.modelsconference.org](http://www.modelsconference.org)



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## Workshops

The following workshops will be held during the first three days of MODELS 2014

Sunday, September 28, 2014		
<b>WS1: GEMOC 2014</b>	2nd Workshop On the Globalization of Modeling Languages	Salón de Actos, Red Cube
<b>WS8: CMSEBA 2014</b>	Combining Modelling with Search- and Example-Based Approaches	Aprende, Red Cube
<b>WS11: MULTI 2014</b>	1st International Workshop on Multi-Level Modeling	Salón de Actos, Yellow Cube
<b>WS13: OSS4MDE 2014</b>	Open Source Software for Model Driven Engineering	Auditorium, Blue Cube
<b>WS16: MD2P2 2014</b>	Model-Driven Development Processes and Practices	Aprende, Red Cube
<b>WS18: ME 2014</b>	International Workshop on Models and Evolution	Descubre, Red Cube

Monday, September 29, 2014		
<b>WS2: AMINO 2014</b>	Towards the Model Driven Organization	Debate, Red Cube
<b>WS3: ACVI 2014</b>	Architecture-Centric Virtual Integration with AADL	Innova, Green Cube
<b>WS7: ModComp 2014</b>	1st International Workshop on Model-Driven Engineering for Component-Based Software Systems	Descubre, Red Cube
<b>WS10: XM 2014</b>	Extreme Modelling	Aprende, Red Cube
<b>WS14: AMT 2014</b>	Analysis of Model Transformations	Salón de Actos, Yellow Cube

Tuesday, September 30, 2014		
<b>WS4: ACESMB 2014</b>	Model Based Architecting and Construction of Embedded Systems	Crea, Green Cube
<b>WS5: OCL 2014</b>	Workshop on OCL and Textual Modeling: Applications and Case Studies	Aprende, Red Cube
<b>WS6: CloudMDE 2014</b>	2nd International Workshop on Model-Driven Engineering on and for the Cloud	Salón de Actos, Red Cube
<b>WS12: MRT 2014</b>	9th International Workshop on Models@run.time	Debate, Red Cube
<b>WS15: MoDeVva 2014</b>	Model-Driven Engineering, Verification and Validation Integrating Verification and Validation in MDE	Salón de Actos, Yellow Cube
<b>WS17: MPM 2014</b>	Workshop on Multi-Paradigm Modeling	Descubre, Red Cube



## WS1-GEMOC 2014

### 2nd Workshop On the Globalization of Modeling Languages

Sunday September 28, 2014

**Organizers:** *Benoit Combemale, Julien DeAntoni and Robert France*

**Room:** Salón de Actos, Red Cube

09:00-09:15: **Opening** (organizers)

09:15-10:30: **Keynote**

Unification or integration: The Challenge of Semantics in Heterogeneous Modeling Languages  
*Gabor Karsai*

10:30-11:00: Coffee Break

11:00-12:30: **Session 2** (chair: B. Combemale):

Supporting Diverse Notations in MPS' Projectional Editor.

*Markus Voelter, and Sascha Lisson.*

A Declarative Approach to Heterogeneous Multi-Mode Modelling Languages

*Tony Clark*

Towards Integrating Modeling and Programming Languages: The Case of UML and Java

*Patrick Neubauer, Tanja Mayerhofer, and Gerti Kappel.*

Understanding Metalanguage Integration by Renarrating a Technical Space Megamodel

*Vadim Zaytsev.*

12:30-14:00: Lunch

14:00-15:30: **Session 3** (chair: J. DeAntoni):

Putting the Pieces Together-Technical, Organisational and Social Aspects of Language Integration for Complex Systems.

*Håkan Burden.*

Towards an Ontology-based Approach for Heterogeneous Model Matching

*Mahmoud Hamlaoui.*

Extensible Global Model Management with Metamodel Subsets and Model Synchronization.

*Dominique Blouin, Yvan Eustache, and Jean-Philippe Diquet.*

Supporting Debugging in a Heterogeneous, Globally Distributed Environment

*Jonathan Corley, and Jeff Gray.*

15:30-16:00: Coffee Break

16:00-17:00: **Discussion**

Language globalization, survey on current practices.

## **WS2-AMINO 2014**

**TowArds the Model DriveN Organization**  
**Monday September 29, 2014**

**Organizers:** *Tony Clark, Balbir Barn, Vinay Kulkarni, Ulrich Frank, Robert France and Dan Turk*

**Room:** Debate, Red Cube

09:00-10:30: **Session 1**

Models in the Enterprise: Mission Statements by  
Invited Participants

10:30-11:00: Coffee break

11:00-12:30: **Session 2**

Models and Organizational Transformation

12:30-14:00: Lunch

14:00-15:30: **Session 3**

Future Enterprise Systems

15:30-16:00: Coffee break

16:00-17:00: **Discussion**

Future Research Agenda



## WS3-ACVI 2014

### Architecture-Centric Virtual Integration with AADL Monday September 29, 2014

**Organizers:** *Julien Delange and Peter Feiler*

**Room:** Innova, Green Cube

08:00-08:15: Welcome and Workshop Presentation  
*Julien Delange*

08:15-09:00: **Keynote**  
The Story of AADL by Peter Feiler

09:00-10:30: **Session 1**  
A discrete-event simulator for early validation of avionics systems  
*Denis Buzdalov and Alexey Khoroshilov.*  
Executable AADL: Real-Time Simulation of AADL Models  
*Pierre Dissaux and Olivier Marc.*  
Automatic Derivation of AADL Product Architectures in Software Product Line Development.  
*Javier Gonzalez-Huerta, Silvia Abrahao, Emilio Insfran and Bruce Lewis.*

10:30-11:00: Coffee Break

11:00-11:30: **Session 2**  
Towards an Architecture-Centric Approach dedicated to Model-Based Virtual Integration for Embedded Software Systems.  
*Huafeng Yu.*

11:30-12:30: **Tutorial**  
AADL Inspector *Pierre Dissaux*

12:30-02:00: Lunch

14:00-15:30: **Session 3**  
An Extension for AADL to Model Mixed-criticality Avionic Systems Deployed on IMA architectures with TTEthernet.  
*Robati Tiyam, Amine El Kouhen, Abdelouahed Gherbi, Sardaouna Hamadou and John Mullins.*  
Contract-based specification and analysis of AADL models  
*Ernesto Posse and Juergen Dingel.*  
Modeling Shared-Memory Multiprocessor Systems with AADL  
*Stéphane Rubini, Pierre Dissaux and Frank Singhoff.*

15:30-16:00: Coffee Break

16:00-17:00: **Tutorial**  
BLESS  
*Brian Larson*

17:00-17:30: **Session 4**  
Multi-core Code Generation from Polychronous Programs with Time-Predictable Properties  
*Zhibin Yang, Jean-Paul Bodeveix and Mamoun Filali.*

17:30 - 18:00: **Discussion**  
Future directions for architecture-centric research efforts?  
Conclusion and Follow-Up  
Moderator: *Julien Delange*

## **WS4-ACESMB 2014**

### **Model Based Architecting and Construction of Embedded Systems**

**Tuesday September 30, 2014**

**Organizers:** *Florian Noyrit, Susanne Graf and Iulia Dragomir*

**Room:** Crea, Green Cube

09:00-09:15: Opening address

09:15-10:15: **Invited Talk**

Towards Formal Model Driven Engineering

*Julien DeAntoni*

10:15-10:45: Coffee Break

10:45-11:35: **Session 1**-Model-Based Architecting and Construction Design Specification of Cyber-Physical Systems: Towards a Domain-Specific Modeling Language based on Simulink, Eclipse Modeling Framework, and Giotto. *Muhammad Umer Tariq, Jacques Florence and Marilyn Wolf.*

Reusing a Functional Safety Concept in Variable System Architecture

*Markus Oertel, Michael Schulze and Thomas Peikenkamp.*

11:35-11:55: **Session 2**-Position papers

Towards Automating Interface Control Documents Elaboration and Management

*Hassna Louadah, Roger Champagne and Yvan Labiche.*

12:00-13:30: Lunch

13:30-14:20: **Session 3**-Model-based Analysis

fUML-Driven Performance Analysis through the MOSES Model Library

*Luca Berardinelli and Vittorio Cortellessa.*

Formal Verification of SystemC Designs using BLAST Software Model Checker

*Paula Herber and Bettina Hünнемeyer*

14:20-15:15: **Discussion**

15:15-15:45: Coffee Break

15:45-16:45: **Discussion**

16:45-17:15: **Conclusions**



## WS5-OCL 2014

### Workshop on OCL and Textual Modeling: Applications and Case Studies

Tuesday September 30, 2014

**Organizers:** *Achim D. Brucker, Carolina Dania, Geri Georg and Martin Gogolla*

**Room:** Aprende, Red Cube

9:00-10:30: **Session 1** - Translating (Textual) Specifications

Textual, executable, translatable UML

*Gergely Dévai, Gábor Ferenc. Kovács and Ádám Ancsin.*

MQT, an Approach for Run-Time Query Translation:  
From EOL to SQL

*Xabier de Carlos, Goiuria Sagardui and Salvador Trujillo.*

Incremental Checking of OCL Constraints through  
SQLQueries.

*Xavier Oriol and Ernest Teniente.*

10:30-11:00: Coffee Break

11:00-12:30: **Session 2**-Validation, Formal Semantics, and Tools

Validation of a Security Metamodel for the Development of Cloud Applications

*Marcos Arjona, Carolina Dania, Marina Egea and Antonio Maña.*

Towards a Tool for Featherweight OCL: A Case Study  
On Semantic Reflection

*Delphine Longuet, Frédéric Tuong and Burkhart Wolff.*

Realizing Model Simplifications with QVT Operational Mappings

*Alexander Kraas.*

12:30-14:00: Lunch

14:00-15:30: **Session 3**-Improving the Usability of OCL and OCL Tools

Embedded OCL Integration and Debugging

*Edward Willink.*

cdmCL, a Specific Textual Constraint Language for  
Common Data Model

*Ahmed Ahmed and Jean-Philippe Babau.*

Towards Fixing Sketchy UML Models by Leveraging  
Textual Notations: Application to Real-Time Embedded Systems.

*Frédéric Jouault and Jérôme Delatour.*

15:30-16:00: Coffee Break

16:00-18:00: **Panel Discussion**

The Future of OCL

## **WS6-CloudMDE 2014**

### **2nd Workshop on Model-Driven Engineering on and for the Cloud**

**Tuesday September 30, 2014**

**Organizers:** *Richard Paige, Louis Rose, Jordi Cabot, Marco Brambilla and James Hill*

**Room:** Salón de Actos, Red Cube

09:00-09:15: Welcome remarks

09:15-10:30: **Keynote**

Distributed Incremental Model Queries over the Cloud: Engineering and Deployment Challenges  
*Dániel Varró*

10:30-11:00: Coffee Break

11:00-12:30: **Session 1**

MDE Opportunities in Multi-Tenant Cloud Applications  
*M. Abu-Matar and J. Whittle*

Towards Cloud-Based Software Process Modelling and Enactment

*S. Alajrami, A. Romanovsky, P. Watson and A. Roth*

Towards Pattern-Based Optimization of Cloud Applications

*M. Fleck, J. Troya, P. Langer and M. Wimmer*

12:30-14:00: Lunch

14:00-15:30: **Session 2**

Modeling Cloud Messaging with a DSML

*G. Kovesdan, M. Asztalos and L. Lengyel*

CloudDSL: a Language for Supporting Cloud Portability by Describing Cloud Entities

*G. Costa Silva, L. Rose and R. Calinescu*

Automated Provisioning of Customized Cloud Service Stacks Using DSL

*T. Holmes.*

15:30-16:00: Coffee Break

16:00-17:00: **Session 3**

UML-based Cloud Application Modeling with Libraries, Profiles and Templates

*A. Bergmayr, J. Troya, P. Neubauer, M. Wimmer and G. Kappel*

MDEForge: an extensible Web-based Modeling Platform

*F. Basciani, J. Di Rocco, Davide Di Ruscio, A. Di Salle, L. Iovino and A. Pierantonio*

17:00-17:30: **Discussion**

**Conclusions**



## WS7-ModComp 2014

### 1st Workshop on Model-Driven Engineering for Component-Based Software Systems

Monday September 29, 2014

**Organizers:** *Federico Ciccozzi, Jan Carlson and Massimo Tivoli*

**Room:** Descubre, Red Cube

09:00-09:15: **Opening**

09:15-10:30: **Keynote**

Component-Based and Model-Driven Engineering:  
The possible synergies of the approaches in meeting new challenges

*Ivica Crnkovic*

10:30-11:00: Coffee Break

11:00-12:30: **Session 1**

Using component frameworks for model transformations by an internal DSL

*Georg Hinkel and Lucia Happe.*

Specifying Intra-Component Dependencies for Synthesizing Component Behaviors

*Stefan Dziwok, Sebastian Goschin and Steffen Becker.*

Multi-Platform Generative Development of Component & Connector Systems using Model and Code Libraries.

*Jan Oliver Ringert, Bernhard Rumpe and Andreas Wortmann.*

Interaction Components Between Components based on a Middleware

*Van Cam Pham, Önder Gürcan and Ansgar Radermacher.*

12:30-14:00: Lunch

14:00-15:30: **Session 2**

Towards a metamodel for the Rubus Component Model

*Alessio Bucaioni, Antonio Cicchetti and Mikael Sjödin.*

Translating Timing Constraints during Vehicular Distributed Embedded Systems Development.

*Saad Mubeen, Mikael Sjödin and Jukka Mäki-Turja.*

Synthesizing an Automata-based Representation of BPMN2 Choreography Diagrams.

*Marco Autili, Davide Di Ruscio, Amleto Di Salle and Paola Inverardi.*

A Lightweight Framework for Testing Safety-critical Component-based Systems on Embedded Targets.

*Nermin Kajtažovic, Andrea Höller, Tobias Rauter and Christian Kreiner.*

15:30-16:00: Coffee Break

16:00-18:00: **Discussion  
Conclusions**

## **WS8-CMSEBA 2014**

### **Combining Modelling with Search- and Example-Based Approaches**

**Sunday September 28, 2014**

**Organizers:** *Richard Paige, Marouane Kessentini, Philip Langer, James Williams and Manuel Wimmer*

**Room:** Aprende, Red Cube

09:00- 09:05: Welcome remarks

09:05-10:05: **Keynote**

Searching models for proactive software diversification  
*Benoit Baudry*

10:05-10:30: **Session 1**

Crepe Complete: Multi-objective Optimization for Your Models.

*D. Efstathiou, J.R. Williams and S. Zschaler*

10:30-11:00: Coffee break

11:00-11:20: **Session 2**

Graph Query by Example

*G. Bergmann, Á. Hegedüs, G. Gerencsér and D. Varro*

Design-Space Exploration in MDE: an initial Pattern Catalogue

*K. Vanherpen, J. Denil, P. De Meulenaere and H. Vangheluwe*

EXEMPLAR: an Experimental Information Repository for SBSE Research

*J. Antonio Parejo Maestre, S. Segura, P. Fernandez Montes and A. Ruiz-Cortés*

Efficient Model Querying with VMQL

*V. Acretoiaie and H. Storrle*

12:20-12:30: **Conclusions**



**WS10-XM 2014**  
**Extreme Modelling 2014**  
**Monday September 29, 2014**

**Organizers:** *Davide Di Ruscio, Alfonso Pierantonio and Juan De Lara*

**Room:** Aprende, Red Cube

09:00-09:10: **Opening**

09:10-10:10: **Keynote**

Putting Engineering into MDE: Components and contracts for models and transformations  
*Steffen Zschaler*

10:10-10:30: **Session 1**

Configurable Formal Methods for Extreme Modeling  
*Uli Fahrenberg and Axel Legay.*

10:30-11:00: Coffee Break

11:00-12:30: **Session 2**

How MAD are we? Empirical Evidence for Model-driven Agile Development  
*Sebastian Hansson, Yu Zhao and Håkan Burden.*

Assigning Semantics to Graphical Concrete Syntaxes  
*Athanasios Zolotas, Dimitris Kolovos, Nicholas Matragkas and Richard Paige.*

EMF Splitter: A Structured Approach to EMF Modularity  
*Antonio Garmendia, Esther Guerra, Dimitrios S. Kolovos and Juan de Lara.*

12:30-14:00: Lunch

14:00-15:00: **Session 3**

Polymorphic Templates: A design pattern for implementing agile model-to-text transformations.  
*Gábor Kövesdán, Márk Asztalos and Laszlo Lengyel.*

Scalable Modelling in the Cloud: Industrial Case Studies  
*Alessandra Bagnato, Etienne Brosse, Andrey Sadovykh, Pedro Maló, Salvador Trujillo, Xabier Mendialdua and Xabier de Carlos.*

15:00-15:30: **Discussion**

15:30-16:00: Coffee Break

16:00-17:00: **Discussion**

**Conclusions**

## **WS11-MULTI 2014**

### **1st International Workshop on Multi-Level Modeling Sunday September 28, 2014**

**Organizers:** *Colin Atkinson, Georg Grossmann, Thomas Kühne and Juan de Lara*

**Room:** Salón de Actos, Yellow Cube

09:00-09:15: **Opening**

09:15-09:45: **Keynote**

What is Multi-Level Modeling?  
*César González Pérez*

09:45-10:30: **Discussion**

10:30-11:00: Coffee Break

11:00-12:30: **Session 1**

Abstract vs Concrete Clabjects in Dual Deep Instantiation  
*Neumayr and Schrefl*

On Metamodel Superstructures Employing UML  
Generalization Features  
*Gogolla, Sedlmeier and Hamann*

Instance Specialization-a Pattern for Multi-level  
Meta Modelling  
*Jahn, Roth and Jablonski*

An Implementation of Multi-Level Modelling in F-Logic  
*Igamberdiev, Grossmann and Stumptner*

A Foundation for Multi-Level Modelling  
*Clark, Gonzalez Perez and Henderson-Sellers*

Comparing Multi-Level Modeling Approaches  
*Atkinson, Gerbig and Kuehne*

12:30-14:00: Lunch

14:00-14:15: **Session 2**

Towards Automating the Analysis of Integrity Con-  
straints in Multi-level Models  
*Guerra and de Lara*

Towards Flexible, Incremental, and Paradigm-ag-  
nostic Consistency Checking in Multi-level Model-  
ing Environments  
*Demuth, Riedl-Ehrenleitner and Egyed*

Multi-Level Modelling in the Modelverse  
*Van Mierlo, Barroca, Vangheluwe, Syriani and Kuehne*

Multilevel Modelling for Interoperability  
*Jordan, Mayer and Stumptner*

Experiences from applying Multi-Level-Modeling  
Techniques in Industrial Applications  
*Al-Hilank, Jung, Kips, Husemann and Philippsen*

Modeling Techniques for Enterprise Architecture  
Documentation: Experiences from Practice  
*Trojer, Farwick and Haeusler*

15:30-16:00: Coffee Break

16:00-17:00: **Discussion**

**Conclusions**



## WS12-MRT 2014

### 9th International Workshop on Models@run.time Tuesday September 30, 2014

**Organizers:** *Sebastian Götz, Nelly Bencomo and Robert France*

**Room:** Debate, Red Cube

09:00-09:10: **Opening**

09:10-10:30: **Session 1**

Dagstuhl Seminar on Models@run.time: Main results  
Presentation of the book Models@run.time: Foundations, Applications, and Roadmaps  
*Nelly Bencomo, Robert France, Betty H.C. Cheng and Uwe Assmann.*

10:30-11:00: Coffee Break

11:00-12:00: **Session 2-Foundations**

On Unifying Development Models and Runtime Models  
*Thomas Vogel and Holger Giese.*

Classifying Distributed Self-\* Systems Based on Runtime Models and Their Coupling  
*Sebastian Wätzdoldt and Holger Giese.*

12:00-12:30: **Discussion**

12:30-14:00: Lunch

14:00-15:30: **Session 3-Middleware and Cloud**

Feature Models at Run Time: Feature Middleware for Multi-tenant SaaS applications  
*Fatih Gey, Dimitri Van Landuyt, Stefan Walraven and Wouter Joosen.*

Towards Monitoring Cloud Services using Models@run.time  
*Priscila Cedillo, Javier Gonzalez-Huerta, Silvia Abrahamo and Emilio Insfran.*

Integrating Run-time Observations and Design Component Models for Cloud System Analysis.  
*Robert Heinrich, Eric Schmieders, Reiner Jung, Kiana Rostami, Andreas Metzger, Willhelm Hasselbring, Ralf Reussner and Klaus Pohl.*

**Discussion**

15:30-16:00: Coffee Break

16:00-18:00: **Breakout Sessions**  
**Conclusions**

## **WS13-OSS4MDE 2014**

### **Open Source Software for Model Driven Engineering Sunday September 28, 2014**

**Organizers:** *Francis Bordeleau, Juergen Dingel, Sebastien Gerard and Sebastian Voss*

**Room:** Auditorium, Blue Cube

09:00-09:05: **Opening**

09:05-09:30: **Session 1**

Model-Based Engineering: A New Era Based on Open Source Tooling  
*Francis Bordeleau*

09:30-10:30: **Keynote**

Open Source-Innovation platforms for MBSE?  
*Bernhard Schaetz*

10:30-11:00: Coffee Break

11:00-11:30: **Session 2**

Invited talk: MDE 2020: The PolarSys opportunity!  
*Gael Blondelle.*

Invited talk: The Papyrus Open Source Modeling Environment  
*Sebastien Gerard.*

Collected Experience and Thoughts on Long Term Development of an Open Source MDE Tool"  
*Lars Hamann, Frank Hilken, and Martin Gogolla.*

12:30-14:00: Lunch

14:00-15:30: **Session 3**

On Developing Open Source MDE Tools: Our Eclipse Stories and Lessons Learned  
*Hugo Brunelière and Jordi Cabot.*

On Open Source Tools for Behavioral Modeling and Analysis with fUML and Alf  
*Zoltán Micskei, Raimund-Andreas Konnerth, Benedek Horváth, Oszkár Semeráth, András Vörös and Dániel Varró.*

The influence of the generator's license on generated artifacts  
*Carsten Kolassa and Bernhard Rumpe*

15:30-16:00: Coffee Break

16:00-16:30: **Session 4**

Software Analytics for MDE Communities (Position Paper)  
*James Williams, Nicholas Matragkas, Dimitris Kolovos, Yannis Korkontzelos, Sofia Annaniadou and Richard Paige*

16:30 - 17:00: **Discussion and Conclusions**



## WS14-AMT 2014

### Analysis of Model Transformations

### Monday September 29, 2014

**Organizers:** *Juan de Lara, Juergen Dingel, Levi Lucio and Hans Vangheluwe*

**Room:** Salón de Actos, Yellow Cube

09:00-09:05: **Opening**

09:05-10:00: **Keynote**

Exploring the non-functional properties of model transformation techniques used in industry  
*Ronan Barrett, Ericsson*

10:00-10:30: **Session 1**-Refactoring

Remodularizing Legacy Model Transformations with Automatic Clustering Techniques

10:30-11:00: Coffee Break

11:00-12:30: **Session 2**-Testing

Unit Testing of Model to Text Transformations

On Static and Dynamic Analysis of UML and OCL Transformation Models

Towards Testing Model Transformation Chains Using Precondition Construction in Algebraic Graph Transformation

12:30-14:00: Lunch

14:00-15:30: **Session 3** - Novel approaches

Towards Approximate Model Transformations

A query structured approach for model transformation

Towards Verified Java Code Generation from Concurrent State Machines

15:30-16:00: Coffee Break

16:00-16:30: **Session 4**-Bidirectional Transformations

Towards Rigorously Faking Bidirectional Model Transformations

Towards Analysing Non-Determinism in Bidirectional Transformations

17:00-17:30: **Discussion**

**Conclusions**

## **WS15-MoDeVVa 2014**

### **Model-Driven Engineering, Verification and Validation Integrating Verification and Validation in MDE** **Tuesday September 30, 2014**

**Organizers:** *Frédéric Boulanger, Michalis Famelis and Daniel Ratiu*

**Room:** Salón de Actos, Yellow Cube

09:00-09:15: **Opening**

*Frédéric Boulanger, Daniel Ratiu*

09:15-10:30: **Keynote**

Language Workbenches: Opportunities and Challenges for V&V

*Markus Völter*

10:30-11:00: Coffee Break

11:00-11:30: **Session 1**

Assessing the Quality of Meta-models

*Jesús J. López Fernández, Esther Guerra and Juan De Lara*

Towards Scalable Multidimensional Execution Traces for xDSMLs

*Erwan Bousse, Benoit Combemale and Benoit Baudry*

Verifying Modelling Languages using Lightning: a Case Study

*Loïc Gammaitoni and Pierre Kelsen*

12:30-14:00: Lunch

14:00-14:30: **Session 2**

Scalable verification of model transformations

*Xiaoliang Wang, Adrian Rutle and Yngve Lamo*

A Viewpoint-Based Approach for Formal Safety & Security Assessment of System Architectures.

*Julien Brunel, David Chemouil, Laurent Rioux, Mohamed Bakkali and Frédérique Vallée*

Modeling Spatial Aspects of Safety-Critical Systems with Focus-ST

*Maria Spichkova, Jan Olaf Blech, Peter Herrmann and Heinz Schmidt*

15:30-16:00: Coffee break

16:00-16:30: **Session 3**

Towards a Base Model for UML and OCL Verification

*Frank Hilken, Philipp Niemann, Robert Wille and Martin Gogolla*

Bayesian Reasoning Over Models

*Sebastian Herzig and Christiaan Paredis*

Colored Petri Net-based Modeling and Formal Analysis of Component-based Applications

*Pranav Srinivas Kumar, Abhishek Dubey and Gabor Karsai*

17:30-18:00: **Discussion and Conclusions**



## WS16-MD2P2 2014

### Model-Driven Development Processes and Practices Sunday September 28, 2014

**Organizers:** *Regina Hebig, Reda Bendraou, Markus Völter and Michel Chaudron*

**Room:** Aprende, Red Cube

14:00-14:45: **Keynote**

Approaches to Automation and Interoperability in Systems Engineering  
*Tom Ritter*

14:45-15:30: **Session 1**-MDE Processes to Develop MDE Tools  
Introducing usability concerns early in the DSL development cycle: FlowSL experience report.  
*Ankica Barisic, Vasco Amaral, Miguel Goulão and Ademar Aguiar*

A Qualitative Study of Model Transformation Development Approaches: Supporting Novice Developers.  
*Gabriel Costa Silva, Louis M Rose and Radu Calinescu*

15:30 - 16:00: Coffee Break

16:00-16:45: **Session 2**-MDE Processes in Practice

Model-Driven Software Development of Safety-Critical Avionics Systems: an Experience Report.  
*Aram Hovsepyan, Dimitri Van Landuyt, Steven Op de Beeck, Sam Michiels, Wouter Joosen, Gustavo Rangel, Javier Fernandez Briones and Jan Depauw*  
Towards Enabling Cross-Organizational Modeling in Automotive Ecosystems  
*Eric Knauss and Daniela Damian*

16:45-18:00: **Discussion  
Conclusions**

## **WS17-MPM 2014**

### **Workshop on Multi-Paradigm Modeling Tuesday September 30, 2014**

**Organizers:** *Daniel Balasubramanian, Tamás Mészáros, Christophe Jacquet, Pieter Van Gorp and Sahar Kokaly*

**Room:** Descubre, Red Cube

09:00-09:05: **Opening**

09:05-10:00: **Keynote**

WebGME

*Akos Ledeczi*

10:00-10:30: **Session 1**

Integrating system modeling and cost models using meta-modeling techniques

*Viktor Steiner and Gergely Mezei*

10:30-11:00: Coffee Break

11:00-12:30: **Session 2**

Discrete-Continuous Semantic Adaptations for Simulating SysML Models in VHDL-AMS

*Daniel Chaves Café, Cecile Hardebolle, Christophe Jacquet, Filipe Vinci Dos Santos and Frédéric Boulanger*

ProMoBox in Practice: A Case Study on the GISMO Domain-Specific Modelling Language.

*Romuald Deshayes, Bart Meyers, Tom Mens and Hans Vangheluwe*

On Synergies between Model Transformations and Semantic Web Technologies

*Robert Bill, Simon Steyskal and Manuel Wimmer*

12:30-14:00: Lunch

14:00-15:30: **Session 3**

Next Generation (Meta)Modeling: Web- and Cloud-based Collaborative Tool Infrastructure

*Miklos Maroti, Tamas Kecskes, Robert Kereskenyi, Brian Broll, Peter Volgyesi, Laszlo Juracz, Tihamer Levendovszky and Akos Ledeczi*

Orchestrating Design Space Exploration Problems to Fix Multi-Paradigm Inconsistencies

*Sebastian Herzig, Benjamin Kruse, Federico Ciccozzi, Joachim Denil, Rick Salay and Daniel Varro*

Taming Multi-Paradigm Integration in a Software Architecture Description Language

*Daniel Balasubramanian, Tihamer Levendovszky, Abhishek Dubey and Gabor Karsai*

15:30-16:00: Coffee Break

16:00-16:30: **Session 4**

Integrating Language and Ontology Engineering

*Bruno Barroca, Thomas Kühne and Hans Vangheluwe*

16:30-17:30 **Discussion and Conclusions**



## WS18-ME 2014

### International Workshop on Models and Evolution Sunday September 28, 2014

**Organizers:** *Alfonso Pierantonio, Dalila Tamzalit and Bernhard Schätz*

**Room:** Descubre, Red Cube

09:00-09:05 :**Opening**

09:05-10:30: **Keynote**

From Model Evolution to Evolution Models  
*Gerti Kappel*

10:30-11:00: Coffee Break

11:00-12:30: **Session 1**

A Systematic Taxonomy of Metamodel Evolution  
Impacts on OCL Expressions

*Angelika Kusel, Juergen Etzlstorfer, Elisabeth Kapsammer, Werner Retschitzegger, Johannes Schoenboeck, Wieland Schwinger and Manuel Wimmer*

A Generic Framework for Analyzing Model Co-Evolution  
*Sinem Getir, Michaela Rindt and Timo Kehrer*

Dealing with the coupled evolution of metamodels  
and model-to-text transformations

*Juri Di Rocco, Davide Di Ruscio, Ludovico Iovino and Alfonso Pierantonio*

12:30-14:00: Lunch

14:00-15:30: **Session 2**

User-defined Signatures for Source Incremental  
Model-to-text Transformation

*Babajide Ogunyomi, Louis Rose and Dimitris Kolovos*

Improving the Quality of Grammars

*Vadim Zaytsev*

Towards a Model-Driven Dynamic Architecture Re-  
configuration Process for Cloud Services Integration.

*Miguel Angel Zuñiga Prieto, Javier Gonzalez-Huerta, Silvia Abrahao and Emilio Insfran*

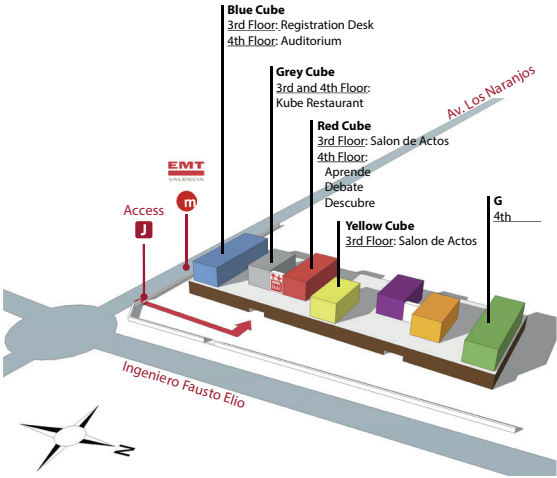
15:30-16:00: Coffee Break

16:00-17:00: **Discussion**

**Conclusions**

## Location

**Universitat Politècnica de València (UPV)**  
Ciudad Politécnica de la Innovación (CPI)





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